

Water Resource Operations & Hydrology East Anglia Area - Essex, Norfolk & Suffolk



Surface Water Hydrological Summary for December 2017



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Author: ang-ipswich-hydrolog@environment-agency.gov.uk

Contact details: 02084745584

Site Information & Summary for December 2017

River	Station Name	County/Location	Station No.	N.G.R.	Catchment Area (km ²)	December 2017 Mean Flow (m ³ /sec)	L.T. Mean for Current Month (m ³ /sec)	L.T. Minima for Current Month (m ³ /sec)	Long Term Q95 (m ³ /sec)
Burn	Burnham Overy	North Norfolk	34012	TF 842 428	80	0.181	0.269	0.074	0.098
Stiffkey	Warham	North Norfolk	34018	TF 944 414	87.8	0.577	0.673	0.195	0.136
Bure	Ingworth	North Norfolk	34003	TG 192 296	164.7	1.815	1.443	0.828	0.576
Wensum	Fakenham	North West Norfolk	34011	TF 919 294	161.9	0.757	0.978	0.103	0.235
Ant	Honing Lock	North Norfolk	34008	TG 331 270	49.3	0.442	0.391	0.254	0.179
Wensum	Swanton Morley	Mid Norfolk	34014	TG 020 184	397.8	7.136	2.399	0.601	0.909
Tud	Costessey Park	Mid Norfolk	34005	TG 170 113	73.2	0.943	0.540	0.189	0.095
Yare	Colney	South Norfolk	34001	TG 182 082	231.8	4.089	2.099	0.466	0.325
Tas	Shotesham	South Norfolk	34002	TM 226 994	146.5	1.873	1.054	0.300	0.175
Waveney	Needham	North Suffolk	34006	TM 229 811	370	2.955	2.811	0.170	0.281
Blyth	Holton	East Suffolk	35013	TM 406 769	92.9	3.397	0.849	0.130	0.066
Alde	Farnham	East Suffolk	35003	TM360 601	63.9	0.585	0.505	0.082	0.043
Ore	Beversham	East Suffolk	35004	TM 359 583	54.9	0.594	0.478	0.119	0.069
Deben	Naunton Hall	East Suffolk	35002	TM 322 534	163.1	2.988	1.337	0.230	0.084
Gipping	Bramford	South Suffolk	35010	TM 127 465	298	1.435	1.667	0.279	0.191
Black Ditch	Hollesley	South East Suffolk	35026	TM 354 440	11.2	0.055	0.078	0.061	0.046
Box	Polstead	South Suffolk	36003	TM 032 354	53.9	0.244	0.284	0.089	0.062
Stour	Westmill	North Essex	36008	TL 827 463	224.5	2.630	1.850	0.267	0.148
Colne	Lexden	Mid Essex	37005	TL 962 261	238.2	1.277	1.518	0.404	0.203
Chelmer	Churchend	Mid Essex	37011	TL 629 233	72.6	0.721	0.560	0.083	0.052
Brain	Guithavon	Mid Essex	37009	TL 845 158	60.7	0.493	0.495	0.198	0.156
Blackwater	Appleford	Mid Essex	37010	TL 818 147	247.3	1.877	1.740	0.506	0.314
Can	Beaches Mill	Mid Essex	37006	TL 690 072	228.4	3.273	1.842	0.417	0.191
Chelmer	Springfield	Mid Essex	37008	TL 713 071	190.3	1.523	1.456	0.386	0.284
Crouch	Wickford	South Essex	37031	TQ 748 934	71.8	0.573	0.525	0.097	0.044

TBRs for rainfall reporting

Norfolk	Fakenham	TF 91982 28847	Suffolk	Eye	TM 151 723	Essex	Kirtling Green	TL 67961 55819
	North Elmham	TF 99876 21284		Benhall	TM 38162 60613		Maldon	TL 88950 07450
	Salle	TG 126 244		Earl Soham	TM 233 628		Gt Sampford	TL 645 351
	Hethersett	TG 1475 0525		Chantry	TM 14900 41400		Gt Oakley	TM 2105 2715
	Morley St Botolph	TM 0565 9945		Worlingham	TM 453 895		Rayleigh	TQ 8280 9050
	North Walsham	TG 296 307						

East Anglia Area - Essex, Norfolk & Suffolk River Flow Summary

Current Month

River	Station	December 2017
Burn	Burnham Overy	Normal
Stiffkey	Warham	Normal
Bure	Ingworth	Above Normal
Wensum	Fakenham	Normal
Ant	Honing Lock	Normal
Wensum	Swanton Morley	Exceptionally High
Tud	Costesey Park	Notably High
Yare	Colney	Exceptionally High
Tas	Shotesham	Notably High
Waveney	Needham	Normal
Blyth	Holton	Exceptionally High
Alde	Farnham	Normal
Ore	Beverham	Normal
Deben	Naunton Hall	Notably High
Gipping	Bramford	Normal
Black Ditch	Hollesley	Exceptionally Low
Box	Polstead	Normal
Stour	Westmill	Above Normal
Colne	Lexden	Normal
Chelmer	Churchend	Normal
Brain	Guithavon	Normal
Blackwater	Appleford	Normal
Can	Beaches Mill	Above Normal
Chelmer	Springfield	Normal
Crouch	Wickford	Normal

Previous 11 Months

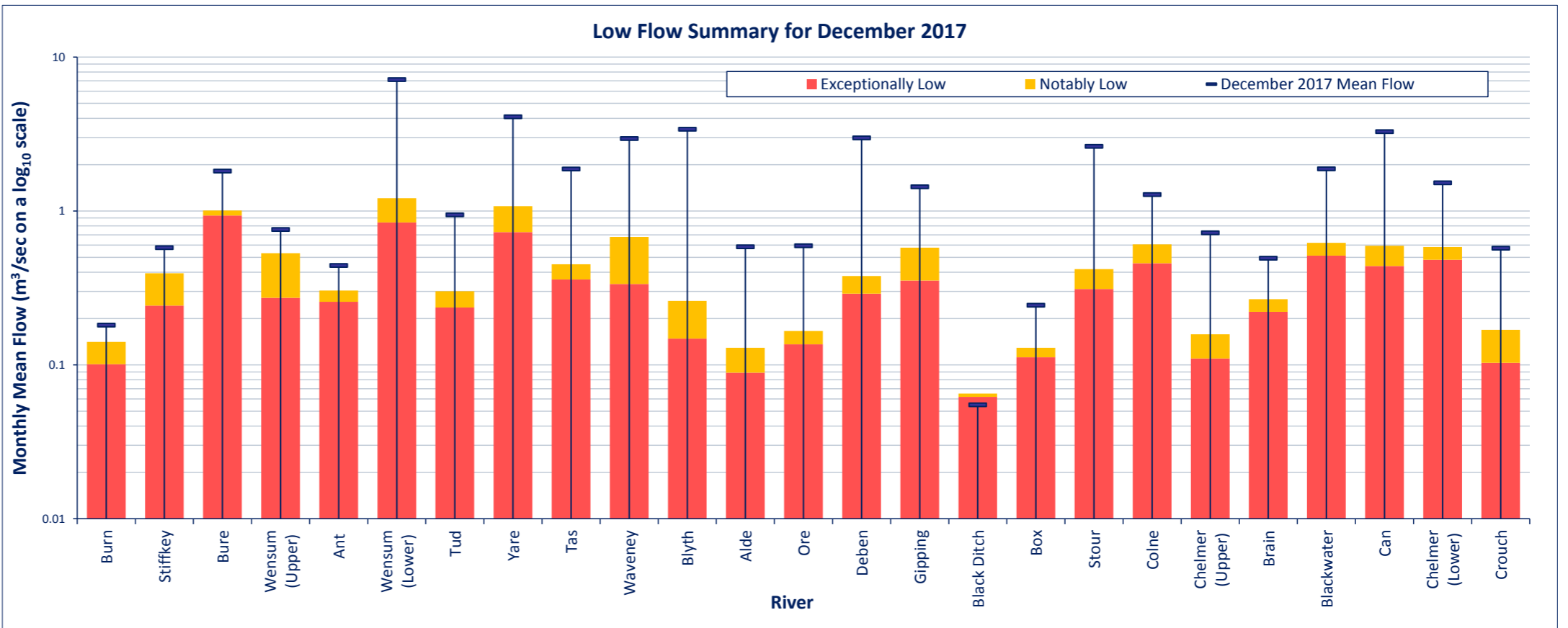
	November 2017	October 2017	September 2017	August 2017	July 2017	June 2017	May 2017	April 2017	March 2017	February 2017	January 2017
Burn	Below Normal	Normal	Normal	Normal	Below Normal	Below Normal	Normal	Normal	Normal	Normal	Normal
Stiffkey	Below Normal	Normal	Normal	Normal	Normal	Below Normal	Normal	Below Normal	Below Normal	Below Normal	Below Normal
Bure	Notably Low	Notably Low	Normal	Normal	Normal	Below Normal	Below Normal	Below Normal	Normal	Normal	Below Normal
Wensum	Below Normal	Below Normal	Normal	Normal	Normal	Normal	Below Normal	Below Normal	Normal	Below Normal	Below Normal
Ant	Below Normal	Below Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Below Normal
Wensum	Normal	Normal	Normal	Normal	Above Normal	Normal	Normal	Normal	Above Normal	Normal	Normal
Tud	Below Normal	Normal	Normal	Normal	Normal	Normal	Below Normal	Below Normal	Above Normal	Normal	Below Normal
Yare	Below Normal	Normal	Above Normal	Above Normal	Normal	Normal	Below Normal	Notably Low	Normal	Normal	Below Normal
Tas	Notably Low	Notably Low	Normal	Normal	Below Normal	Below Normal	Below Normal	Notably Low	Normal	Normal	Below Normal
Waveney	Exceptionally Low	Exceptionally Low	Normal	Normal	Below Normal	Notably Low	Normal	Notably Low	Normal	Normal	Normal
Blyth	Below Normal	Notably Low	Normal	Above Normal	Normal	Normal	Normal	Below Normal	Normal	Normal	Normal
Alde	Notably Low	Below Normal	Below Normal	Normal	Below Normal	Below Normal	Normal	Below Normal	Normal	Normal	Normal
Ore	Notably Low	Notably Low	Below Normal	Normal	Below Normal	Below Normal	Normal	Notably Low	Normal	Normal	Below Normal
Deben	Exceptionally Low	Notably Low	Below Normal	Normal	Normal	Below Normal	Normal	Notably Low	Normal	Normal	Below Normal
Gipping	Exceptionally Low	Notably Low	Normal	Normal	Below Normal	Below Normal	Normal	Notably Low	Normal	Normal	Below Normal
Black Ditch	Exceptionally Low	Exceptionally Low	Notably Low	Notably Low	Below Normal	Exceptionally Low	Exceptionally Low	Exceptionally Low	Exceptionally Low	Exceptionally Low	Exceptionally Low
Box	Exceptionally Low	Exceptionally Low	Notably Low	Normal	Below Normal	Below Normal	Normal	Below Normal	Normal	Normal	Below Normal
Stour	Normal	Above Normal	Exceptionally High	Above Normal	Notably High	Normal	Above Normal	Below Normal	Normal	Normal	Normal
Colne	Notably Low	Notably Low	Below Normal	Normal	Normal	Below Normal	Normal	Notably Low	Below Normal	Normal	Below Normal
Chelmer	Notably Low	Below Normal	Normal	Above Normal	Below Normal	Normal	Normal	Below Normal	Below Normal	Normal	Below Normal
Brain	Below Normal	Below Normal	Normal	Notably High	Normal	Above Normal	Normal	Notably Low	Below Normal	Normal	Below Normal
Blackwater	Normal	Normal	Normal	Notably High	Normal	Normal	Above Normal	Normal	Normal	Normal	Normal
Can	Notably Low	Below Normal	Above Normal	Exceptionally High	Above Normal	Normal	Normal	Exceptionally Low	Below Normal	Normal	Normal
Chelmer	Exceptionally Low	Notably Low	Normal	Above Normal	Normal	Normal	Normal	Below Normal	Normal	Normal	Normal
Crouch	Exceptionally Low	Below Normal	Notably High	Exceptionally High	Above Normal	Normal	Above Normal	Exceptionally Low	Below Normal	Normal	Normal

Colour	County
Light Green	Norfolk
Light Blue	Suffolk
Light Yellow	Essex

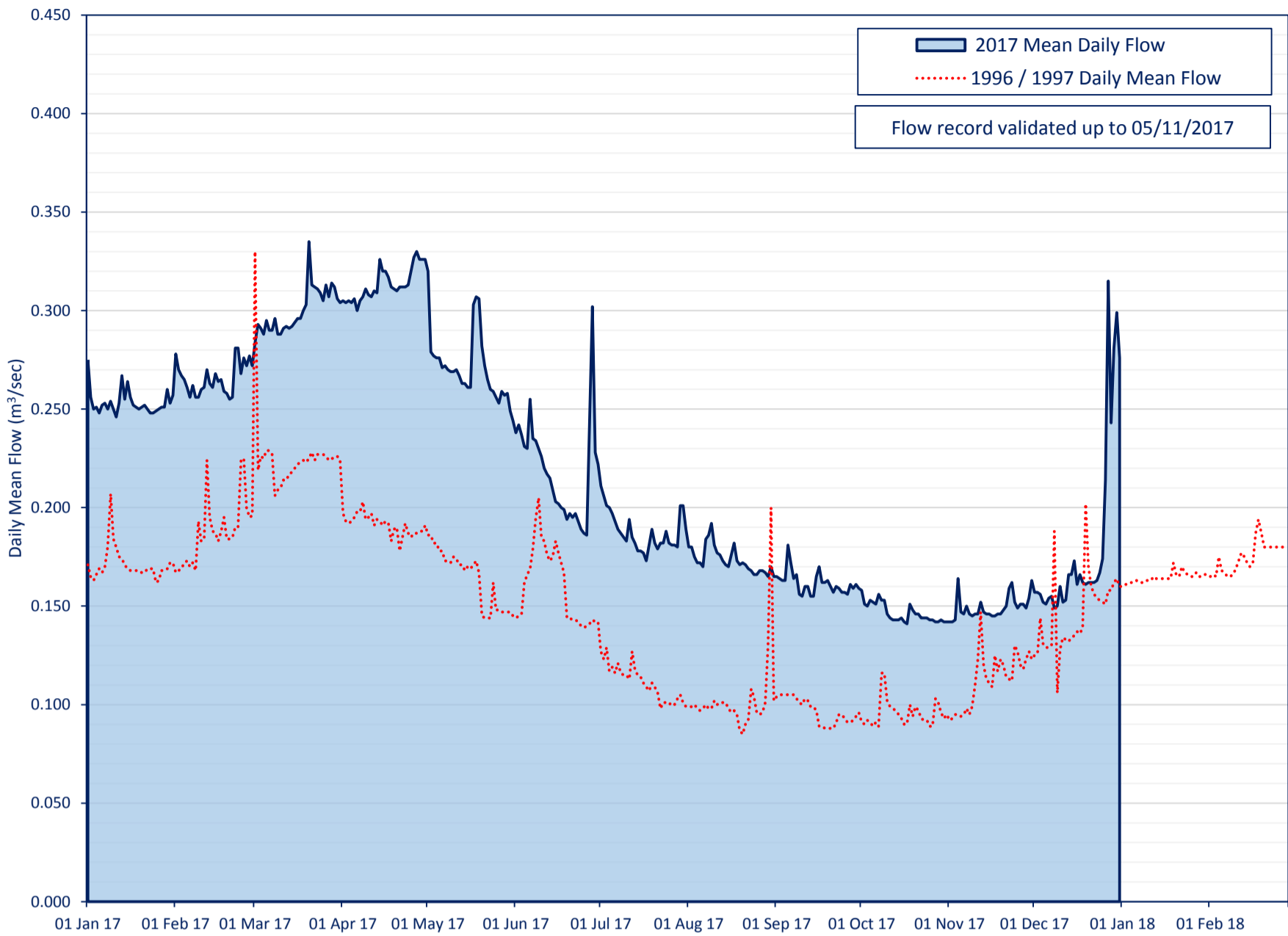
Category Key	Probability of occurrence	Return period (approx.)
Exceptionally Low	0.05 (5%)	> 1 in 20
Notably Low	0.08 (8%)	> 1 in 8 to 1 in 20
Below Normal	0.15 (15%)	> 1 in 4 to 1 in 8
Normal	0.44 (44%)	< 1 in 4
Above Normal	0.15 (15%)	> 1 in 4 to 1 in 8
Notably High	0.08 (8%)	> 1 in 8 to 1 in 20
Exceptionally High	0.05 (5%)	> 1 in 20

Number of sites below indicative low flow triggers

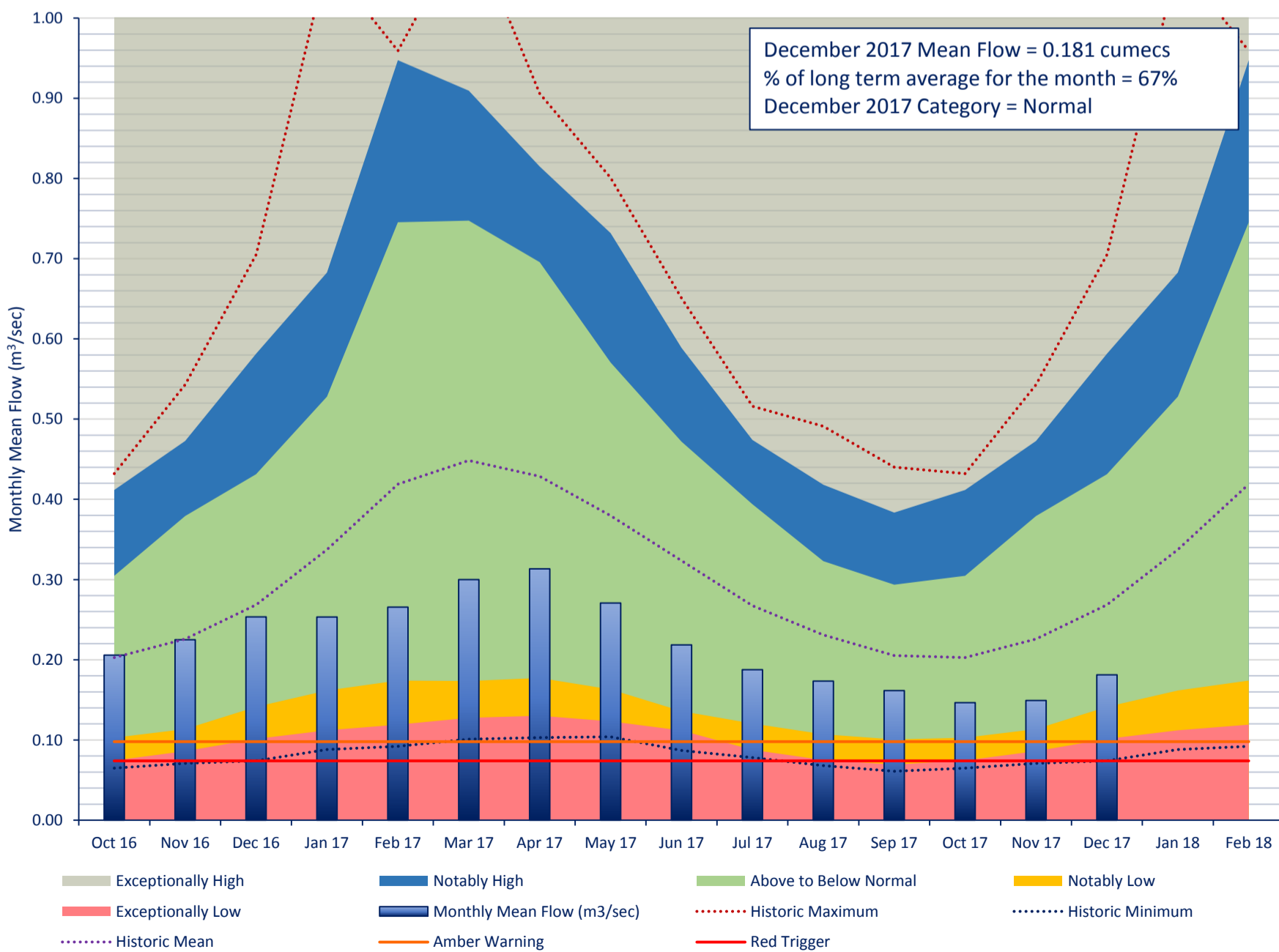
County	Amber Warning	Red Trigger
Norfolk	0	0
Suffolk	0	0
Essex	0	0



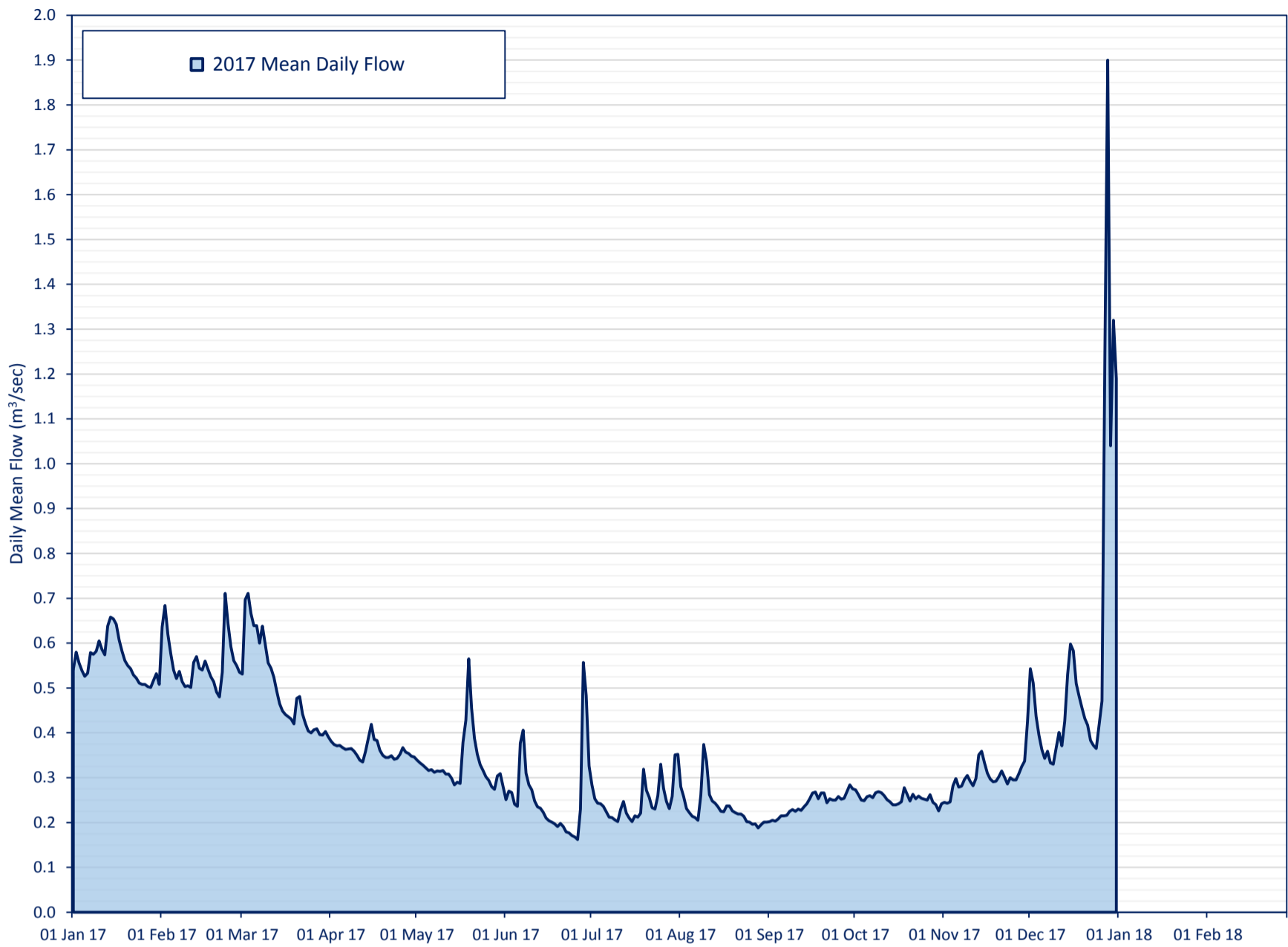
River Burn at Burnham (12 Month Hydrograph)



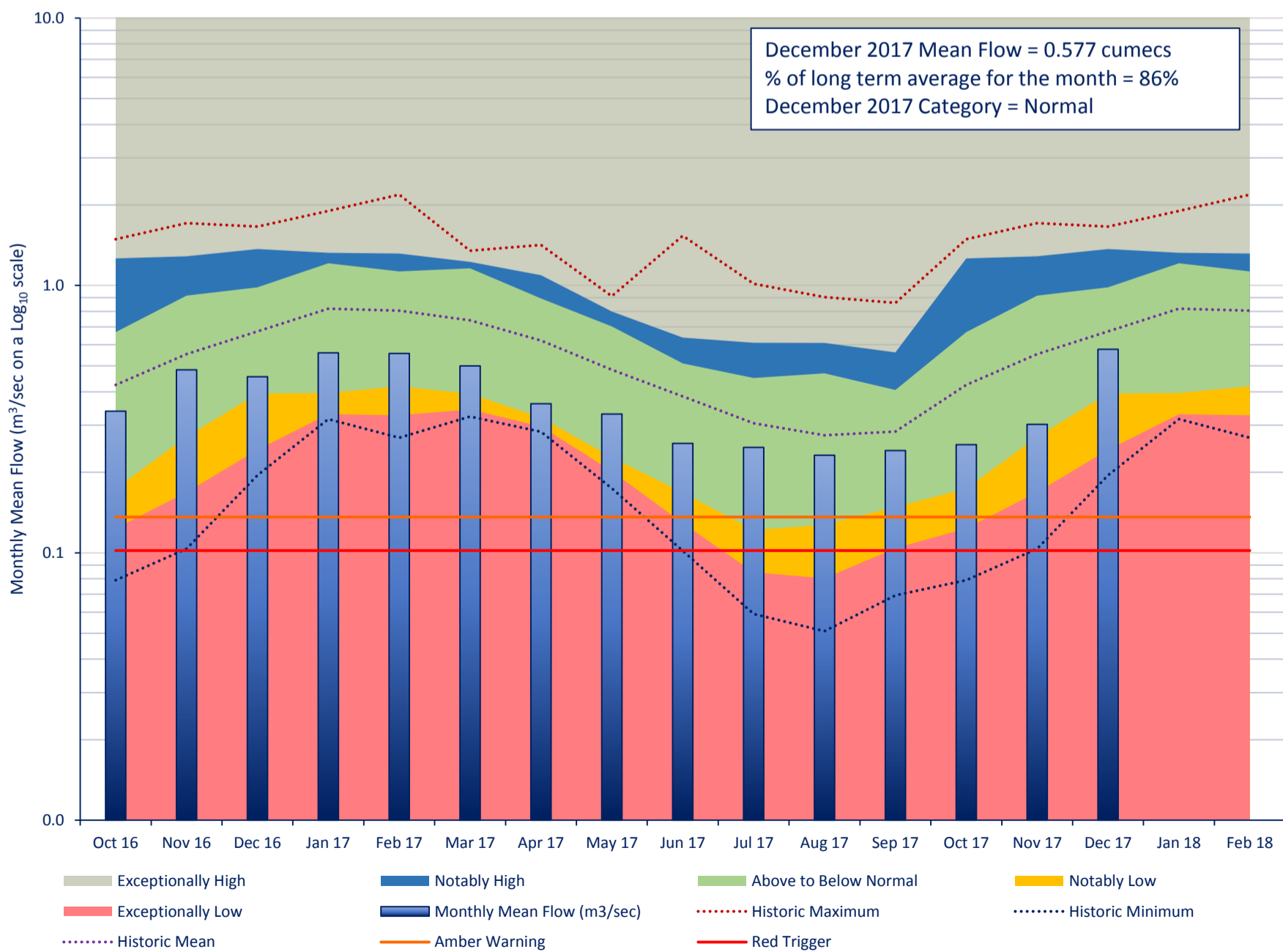
River Burn at Burnham Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



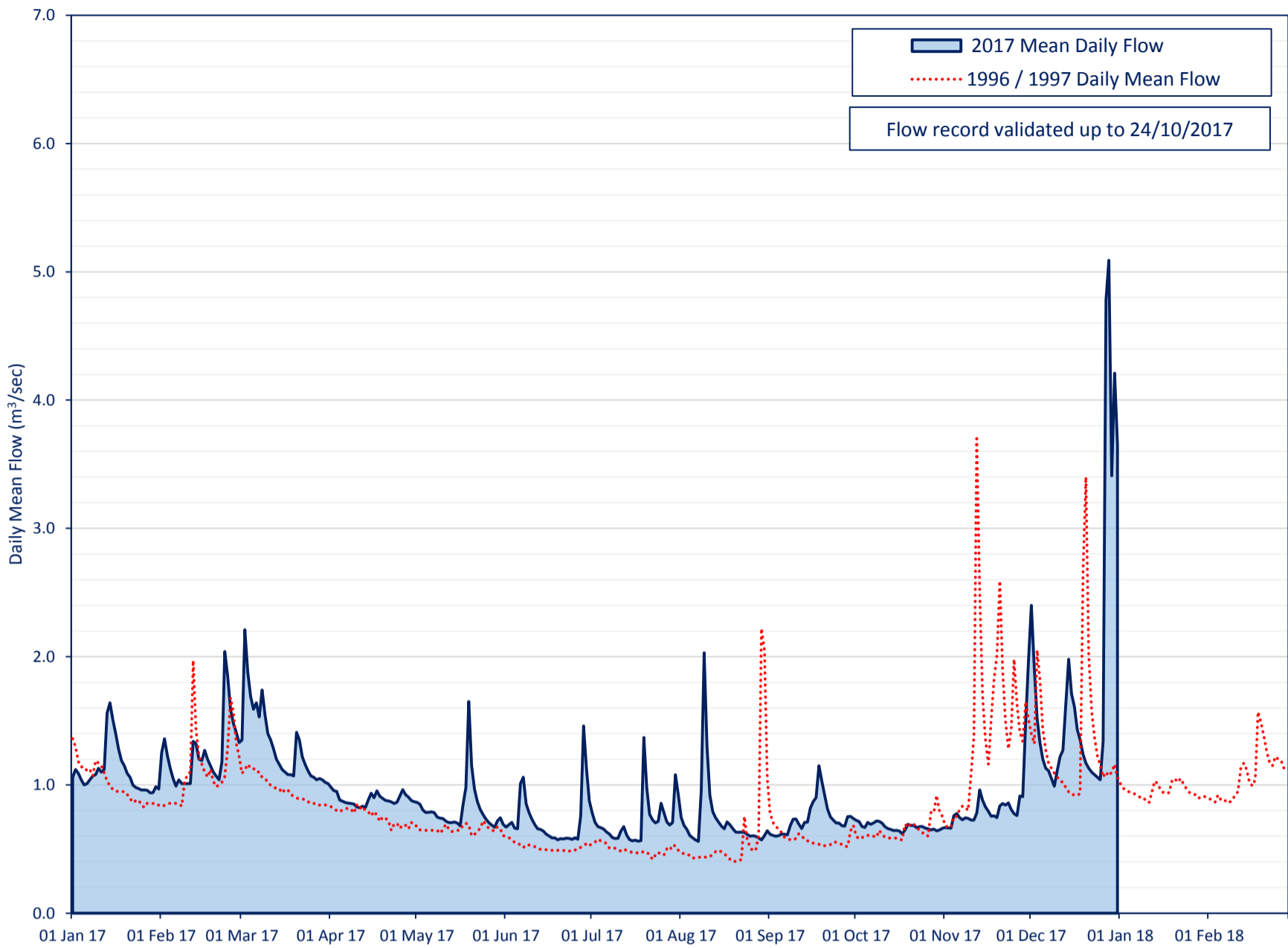
River Stiffkey at Warham (12 Month Hydrograph)



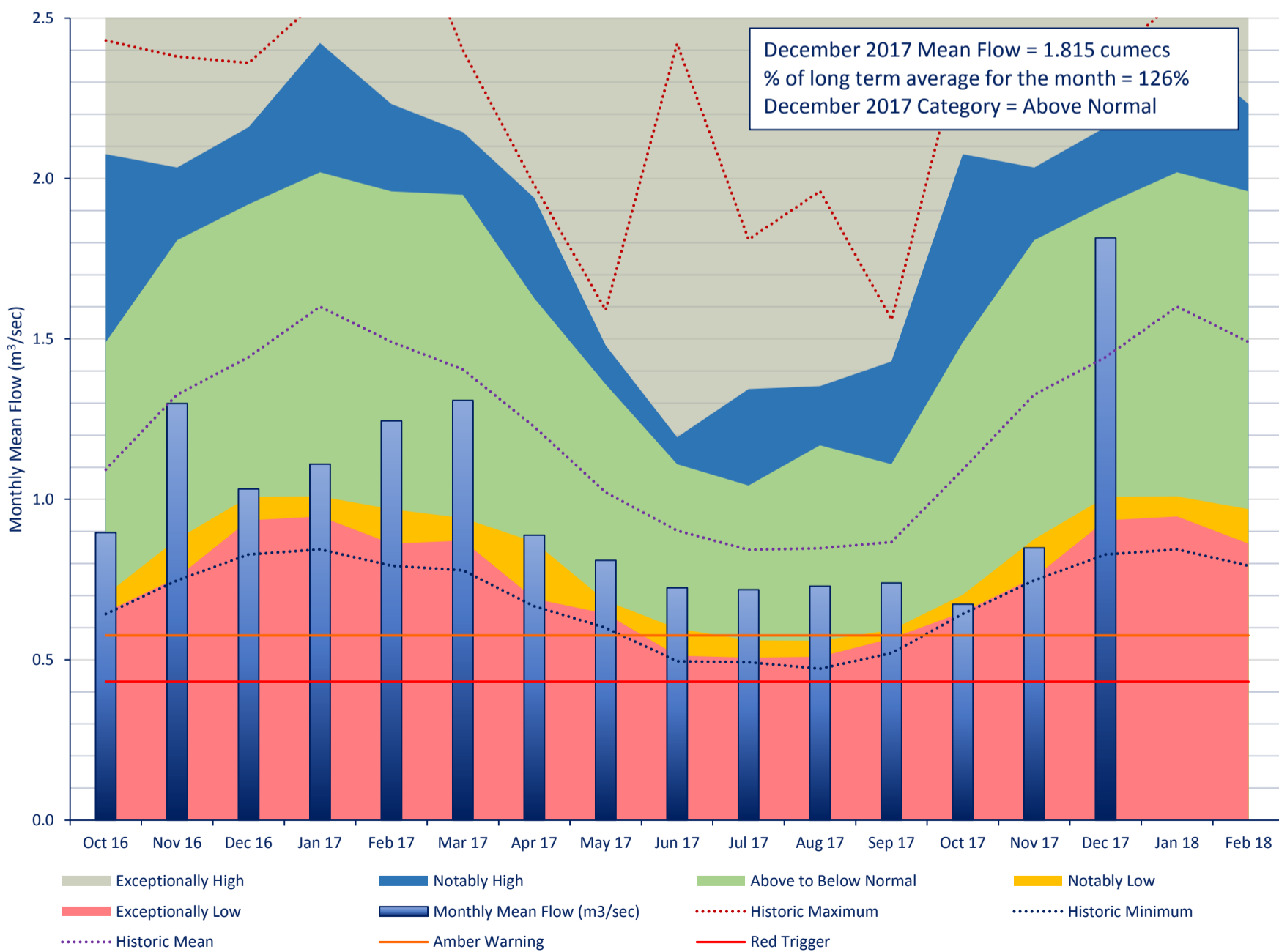
River Stiffkey at Warham Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



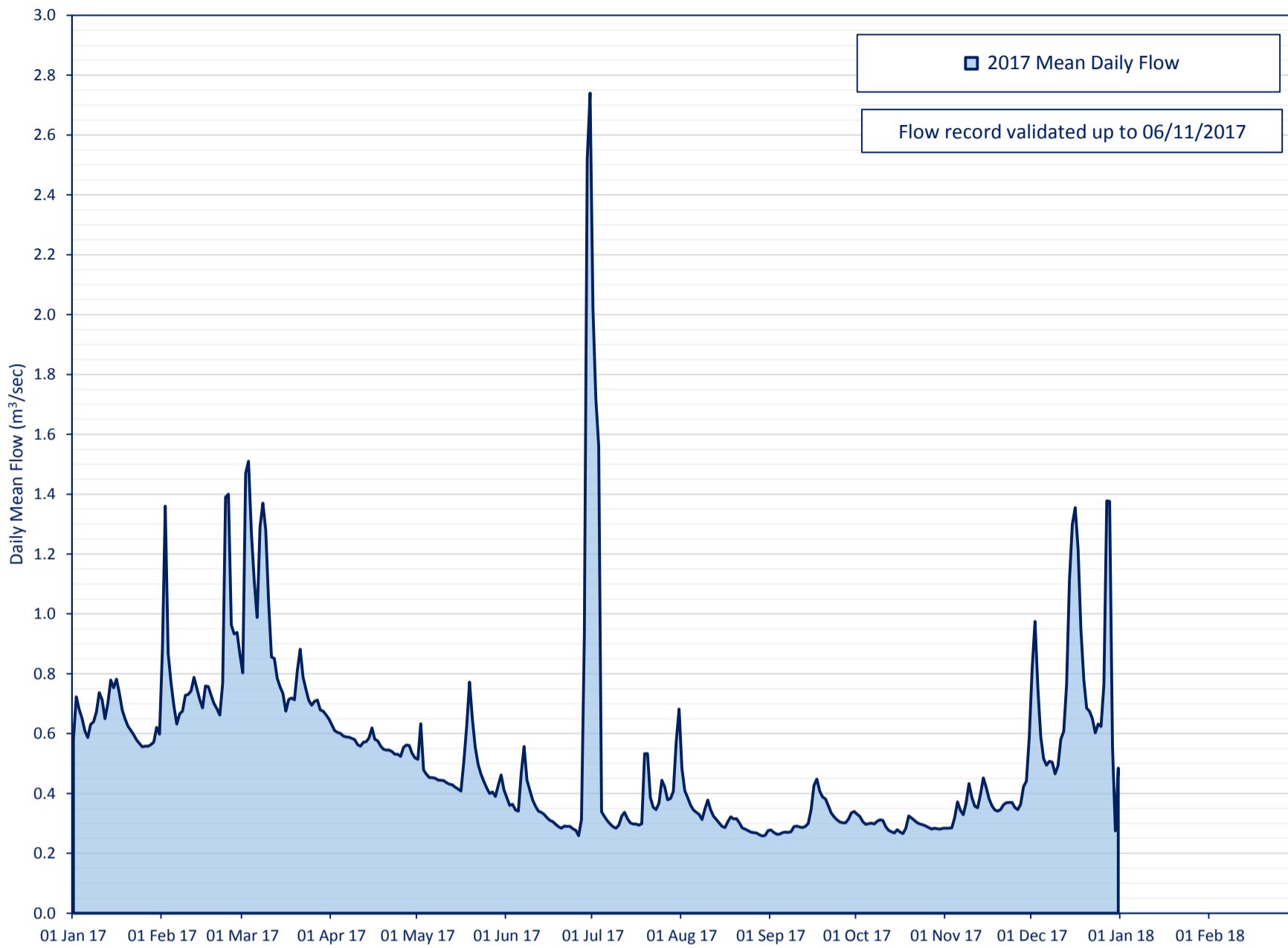
River Bure at Ingworth (12 Month Hydrograph)



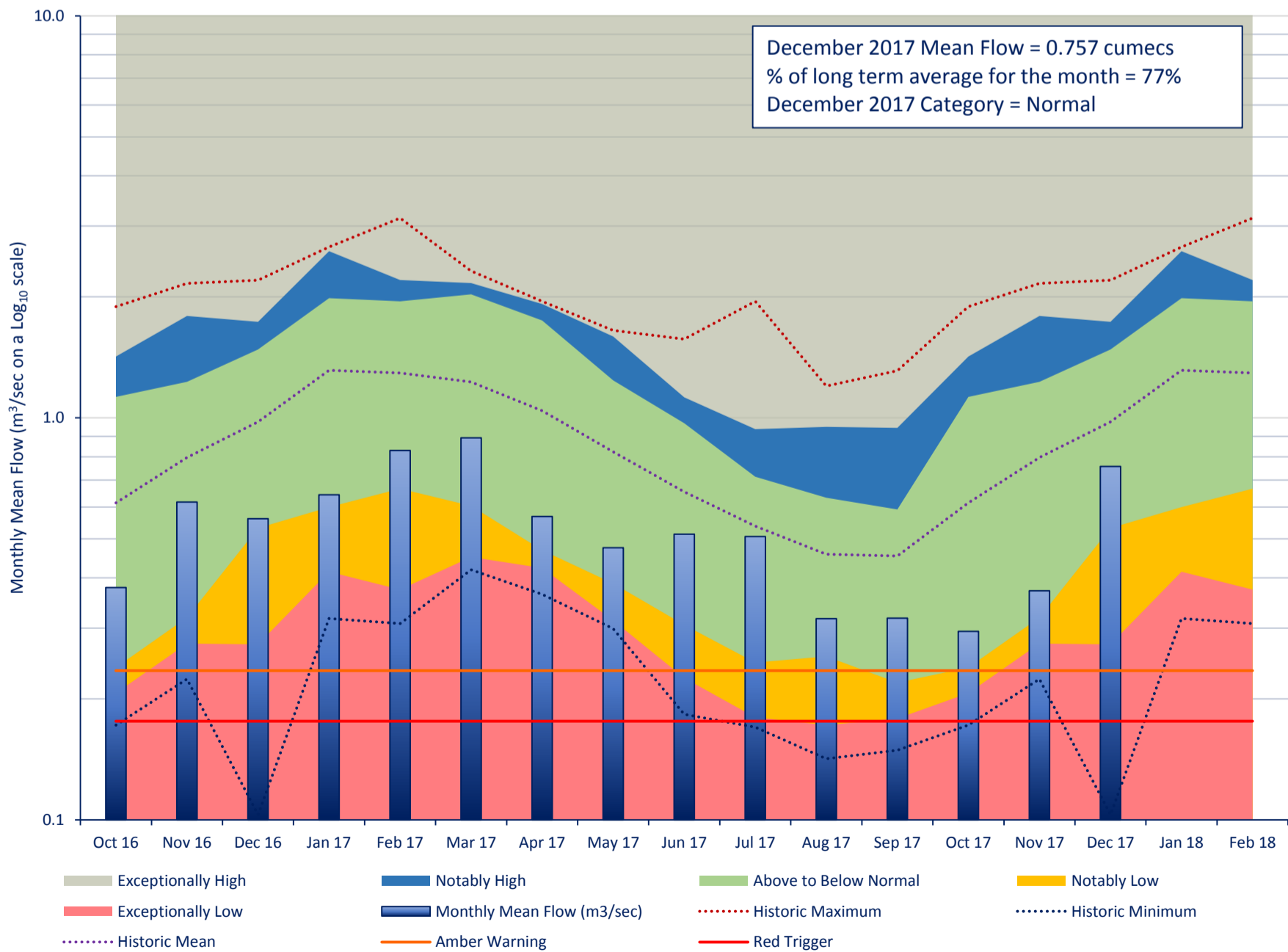
River Bure at Ingworth Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



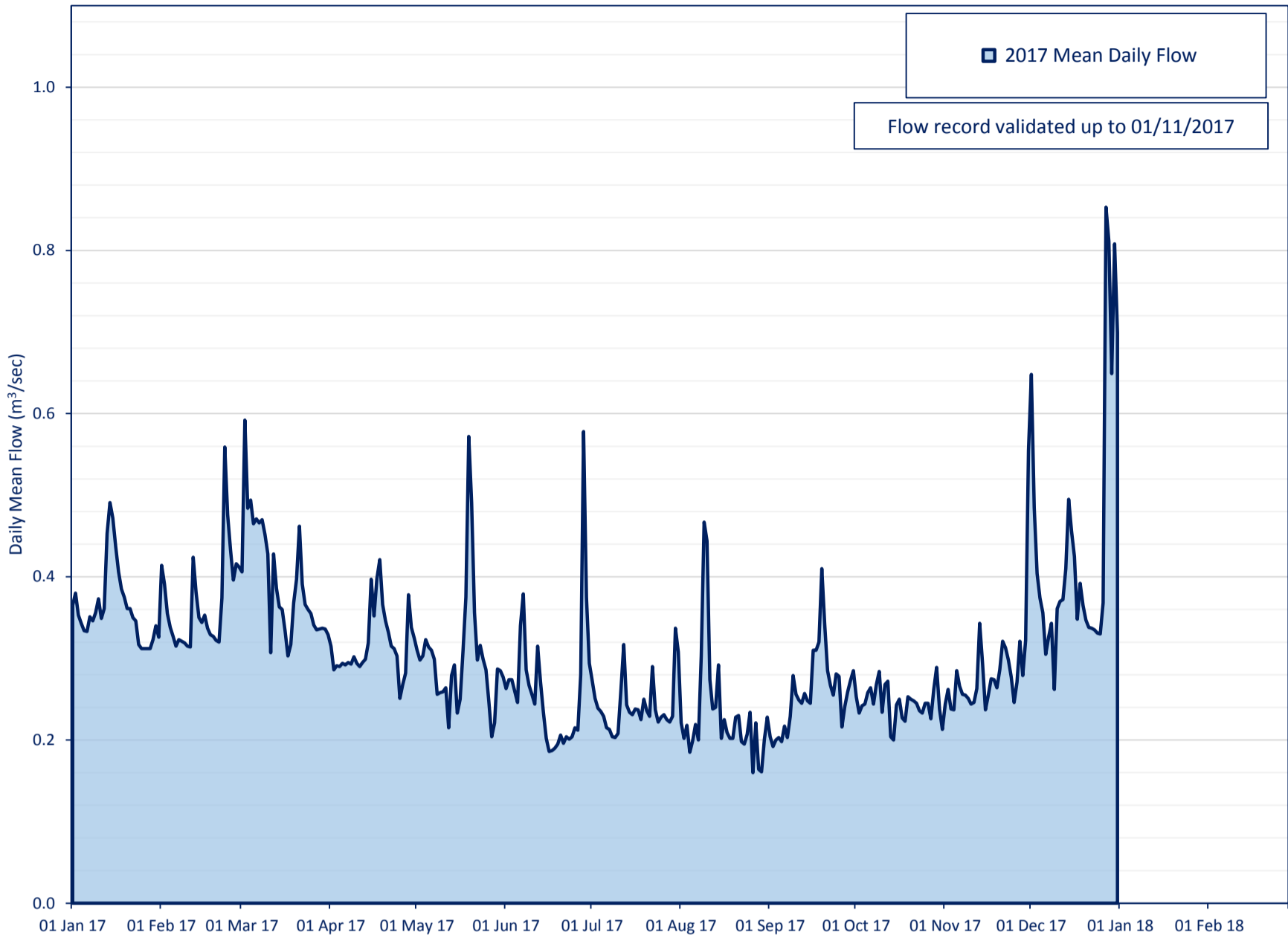
River Wensum at Fakenham (12 Month Hydrograph)



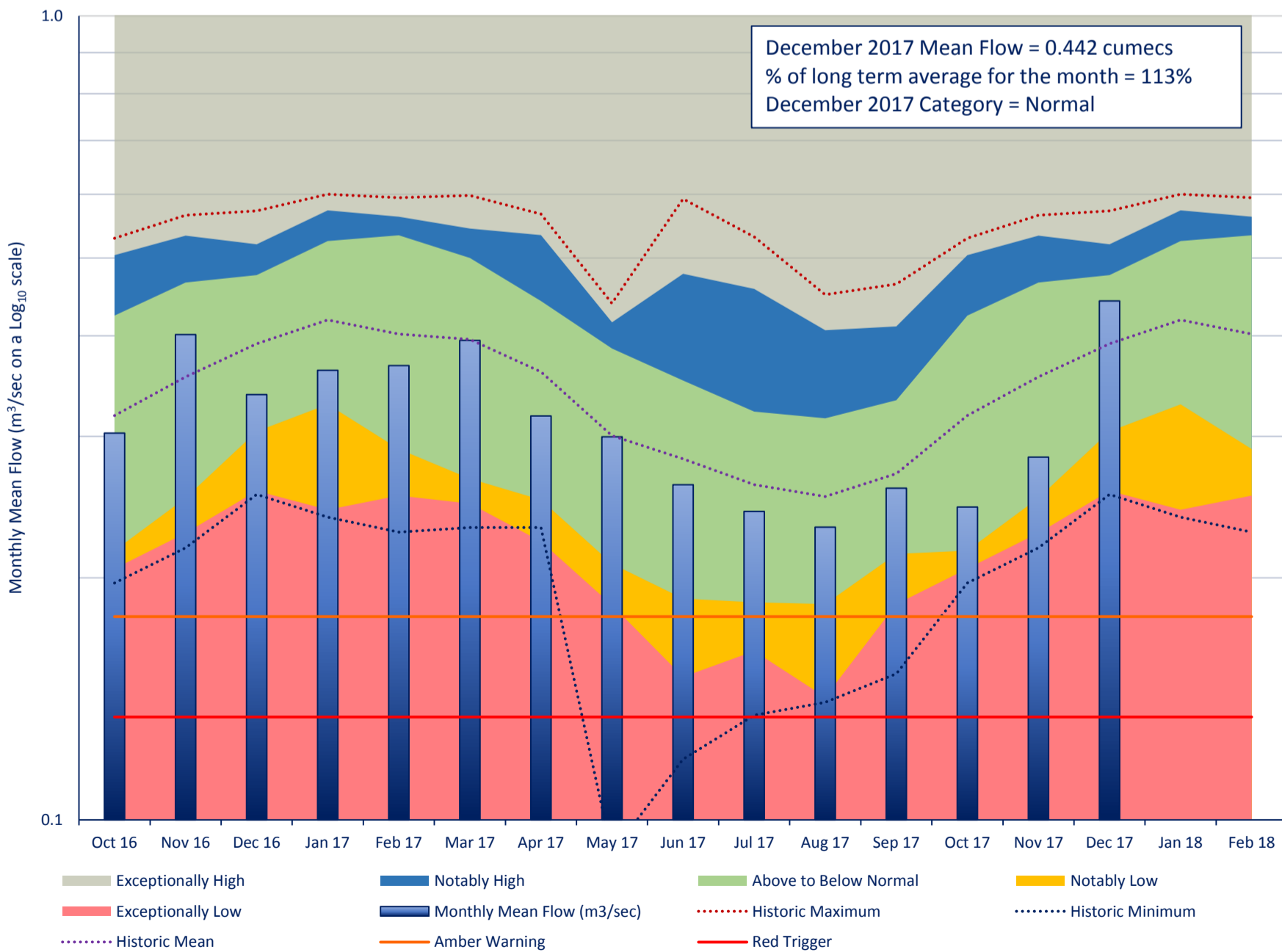
River Wensum at Fakenham Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



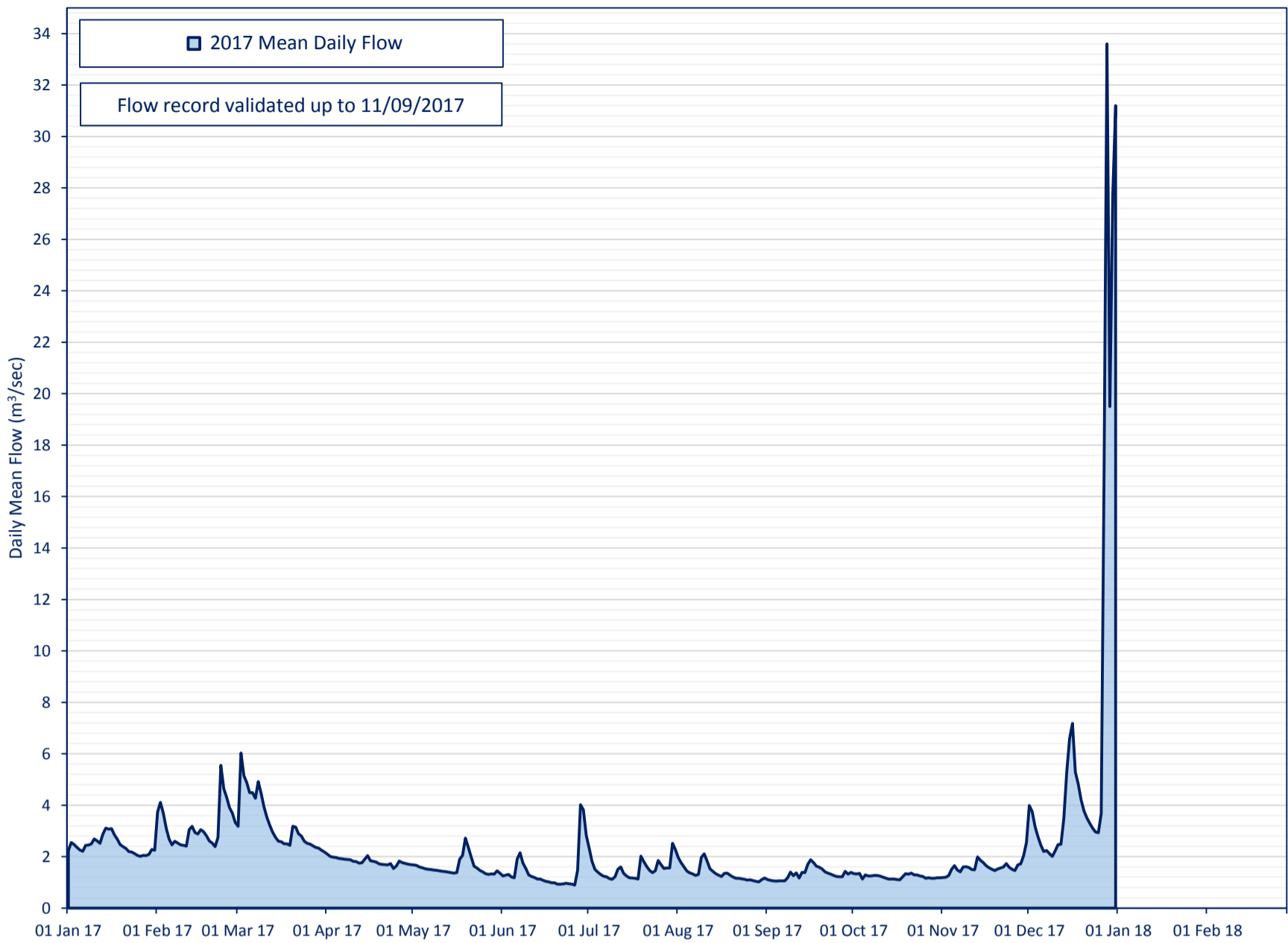
River Ant at Honing Lock (12 Month Hydrograph)



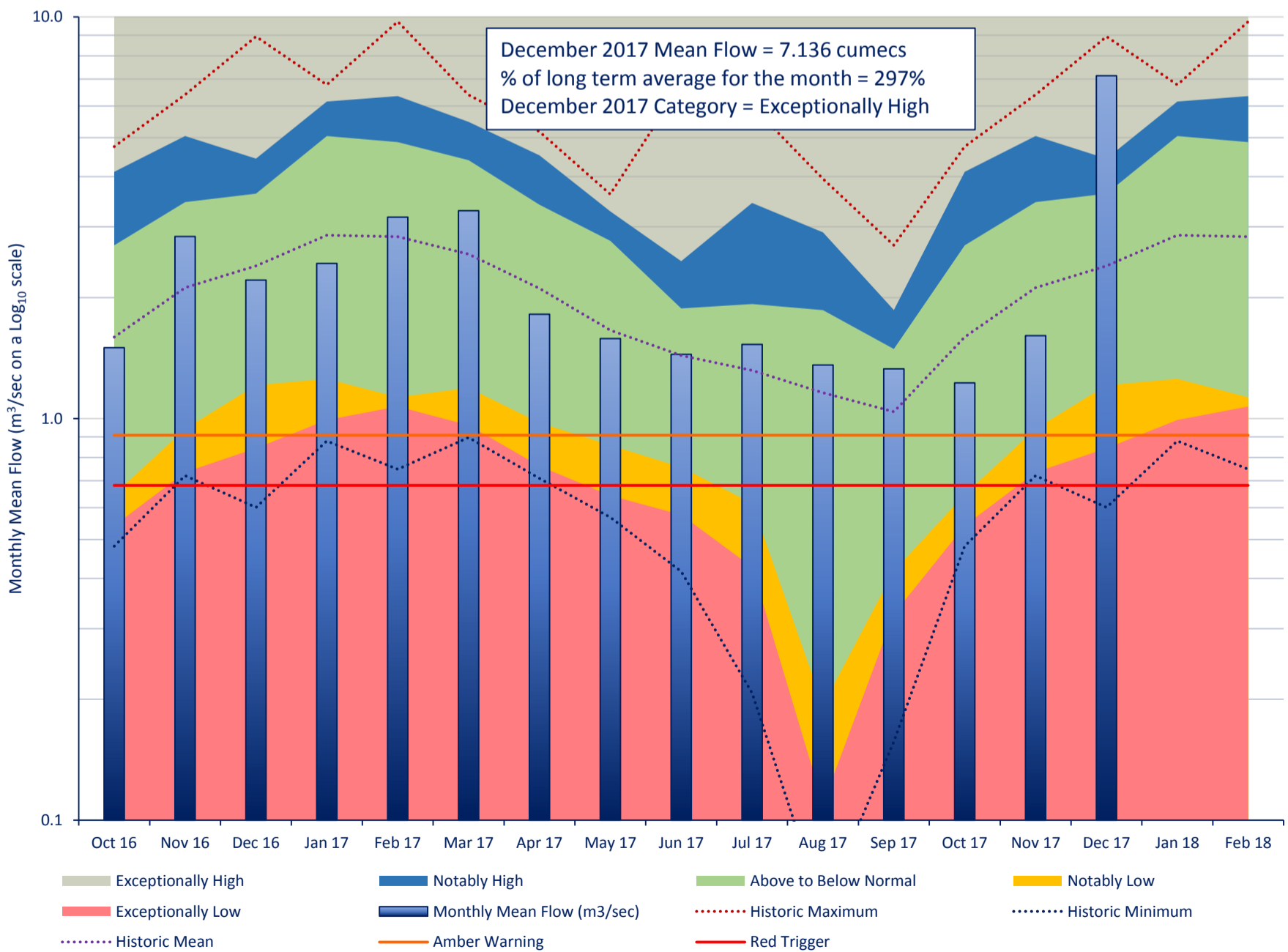
River Ant at Honing Lock Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



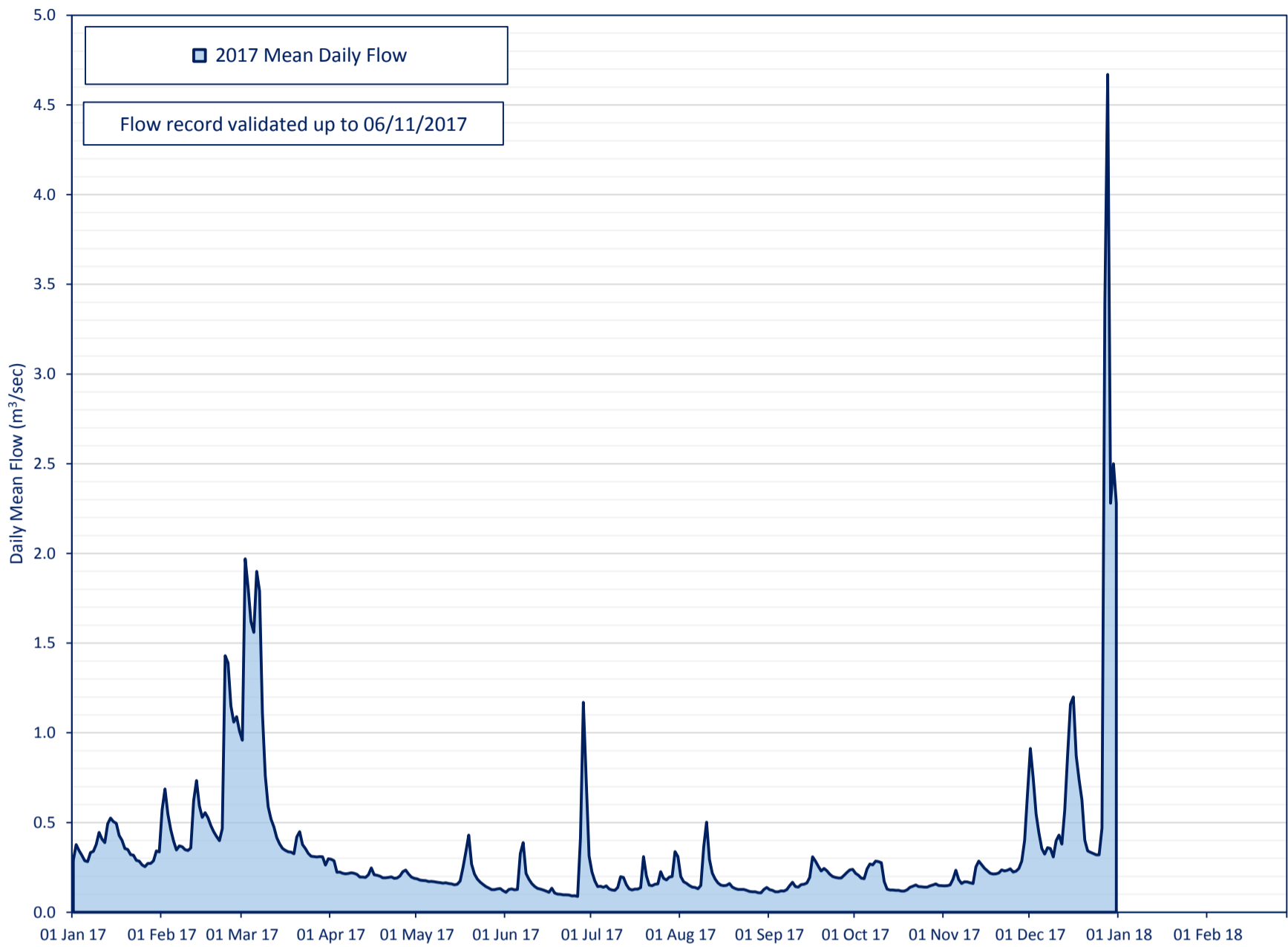
River Wensum at Swanton Morley (12 Month Hydrograph)



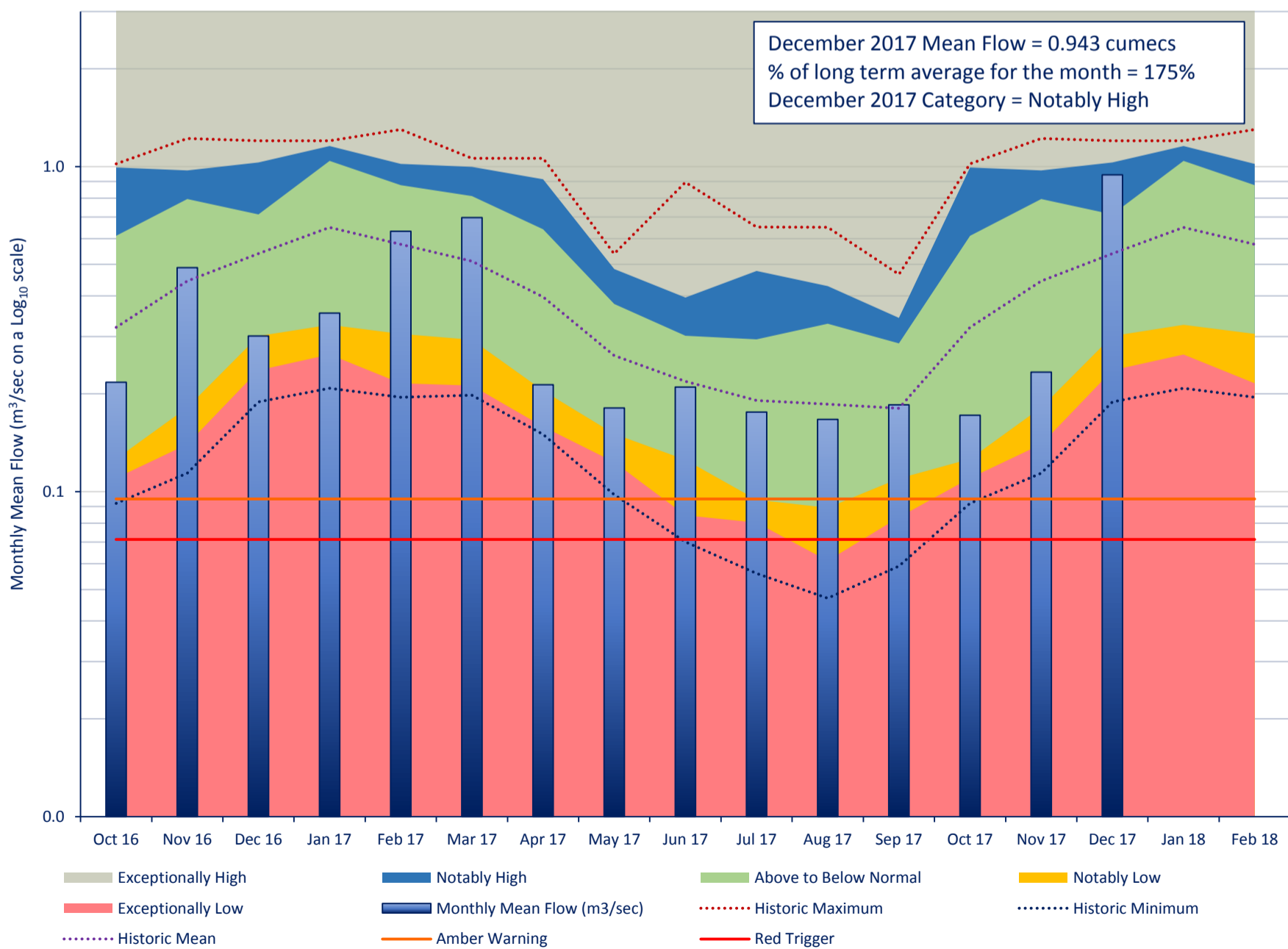
River Wensum at Swanton Morley Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



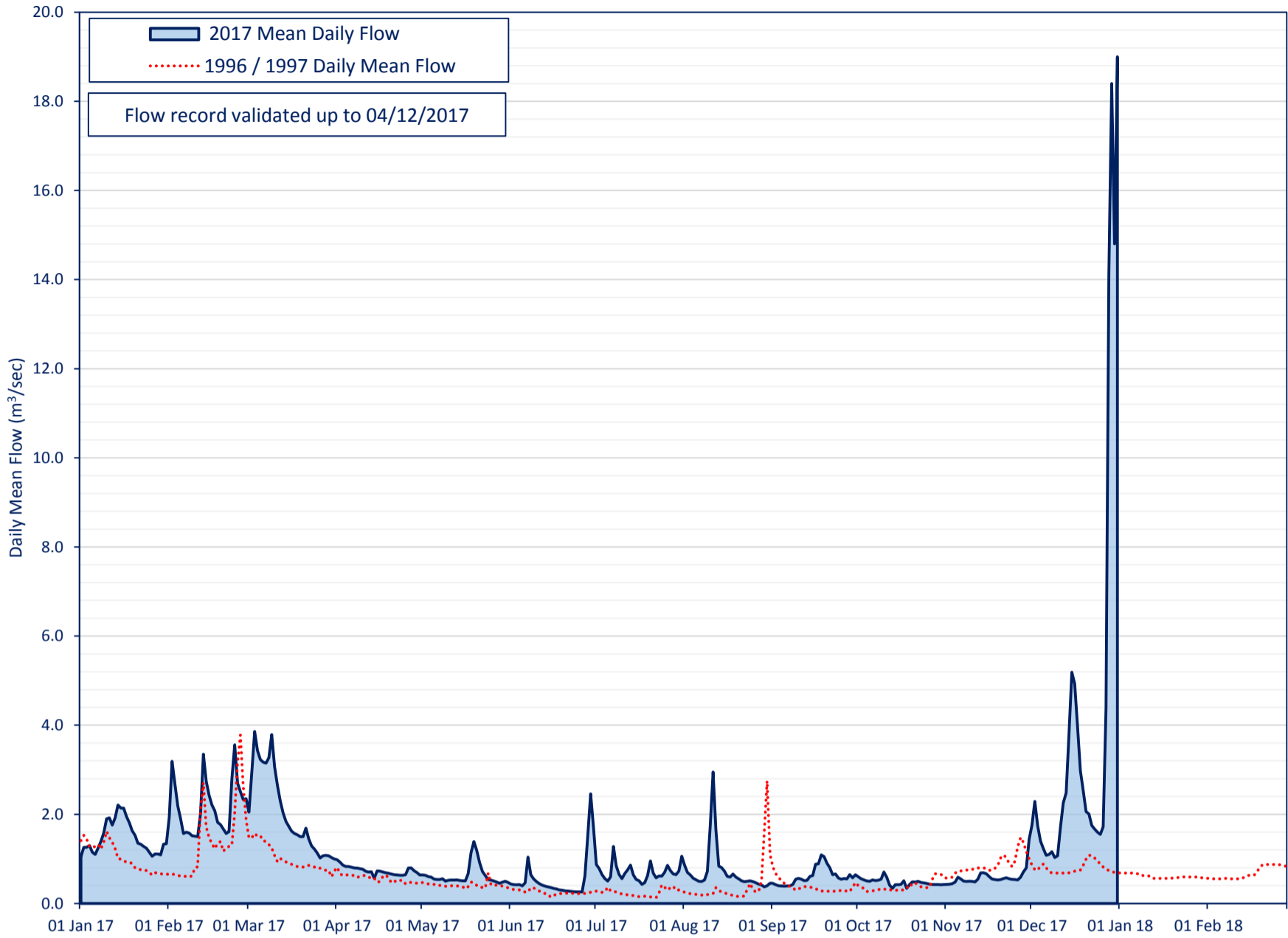
River Tud at Costessey Park (12 Month Hydrograph)



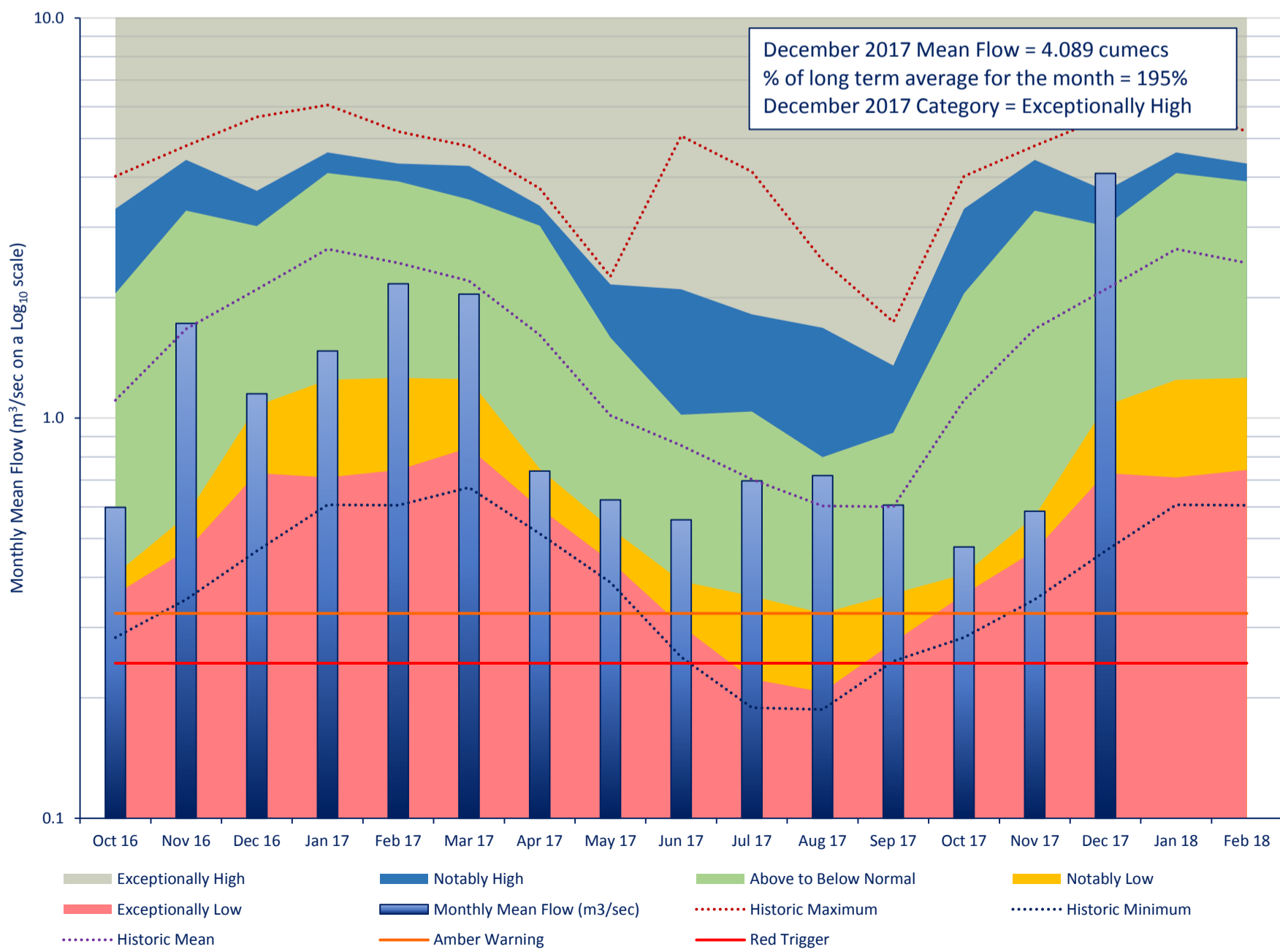
River Tud at Costessey Park Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



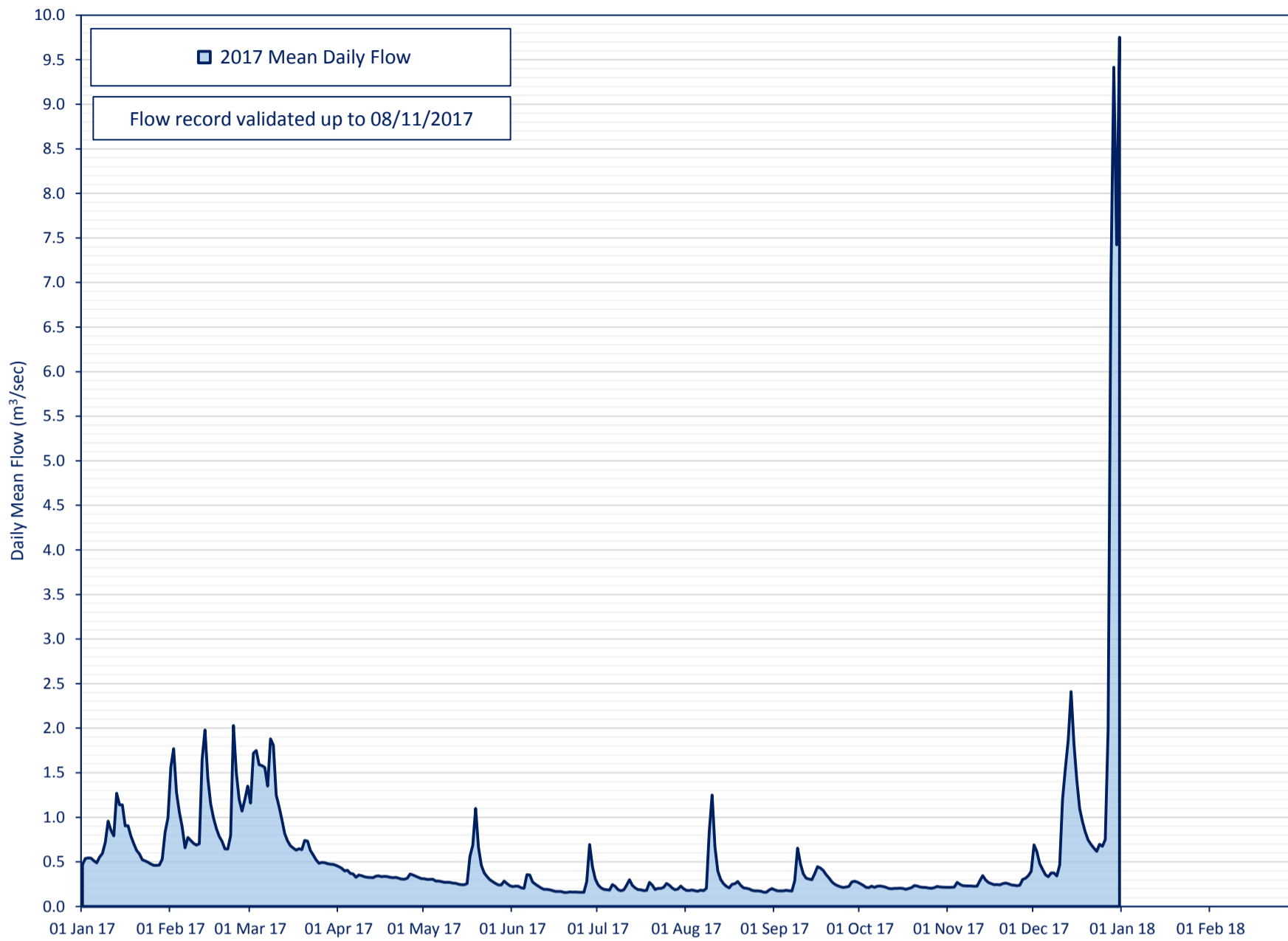
River Yare at Colney (12 Month Hydrograph)



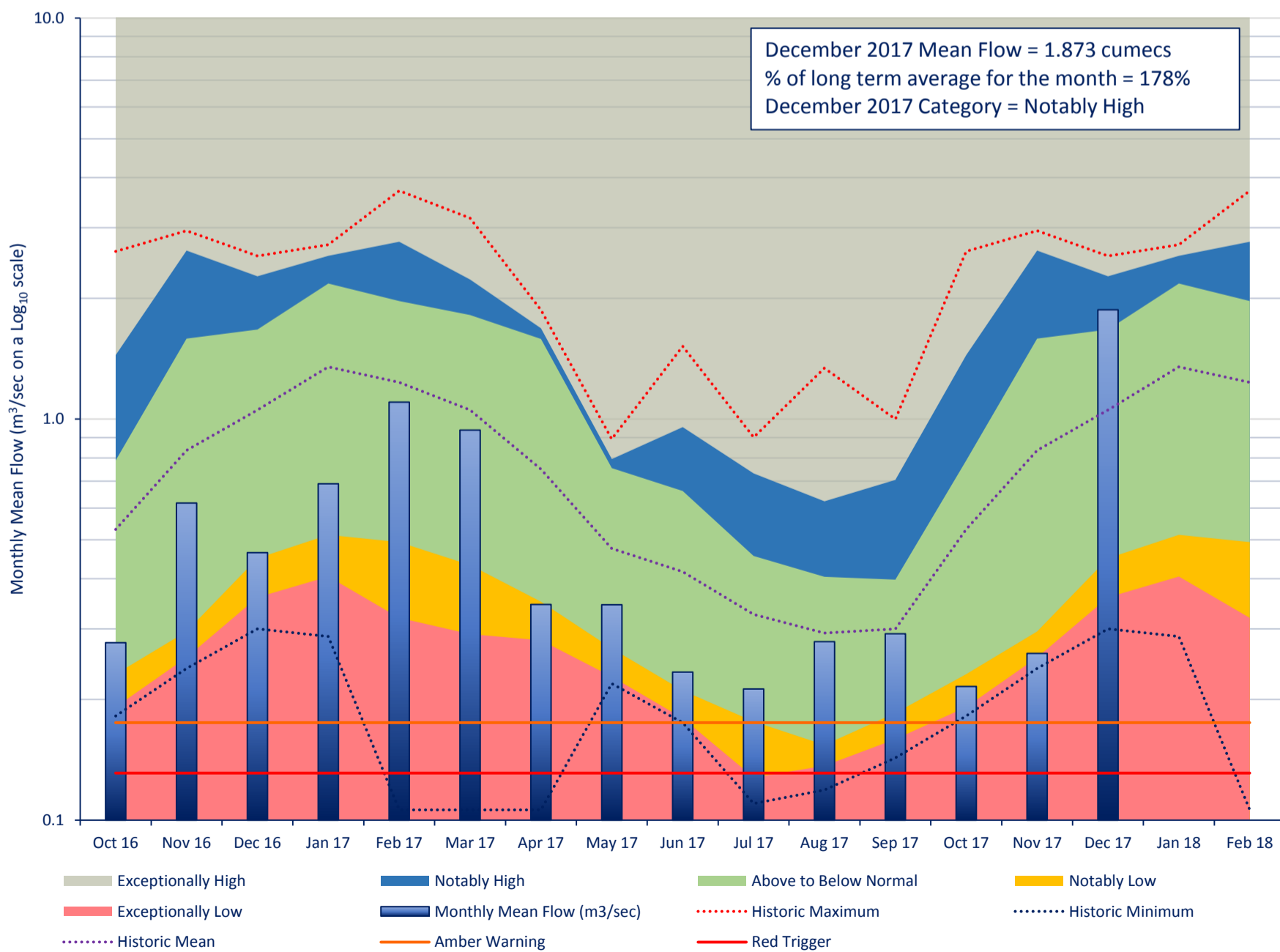
River Yare at Colney Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



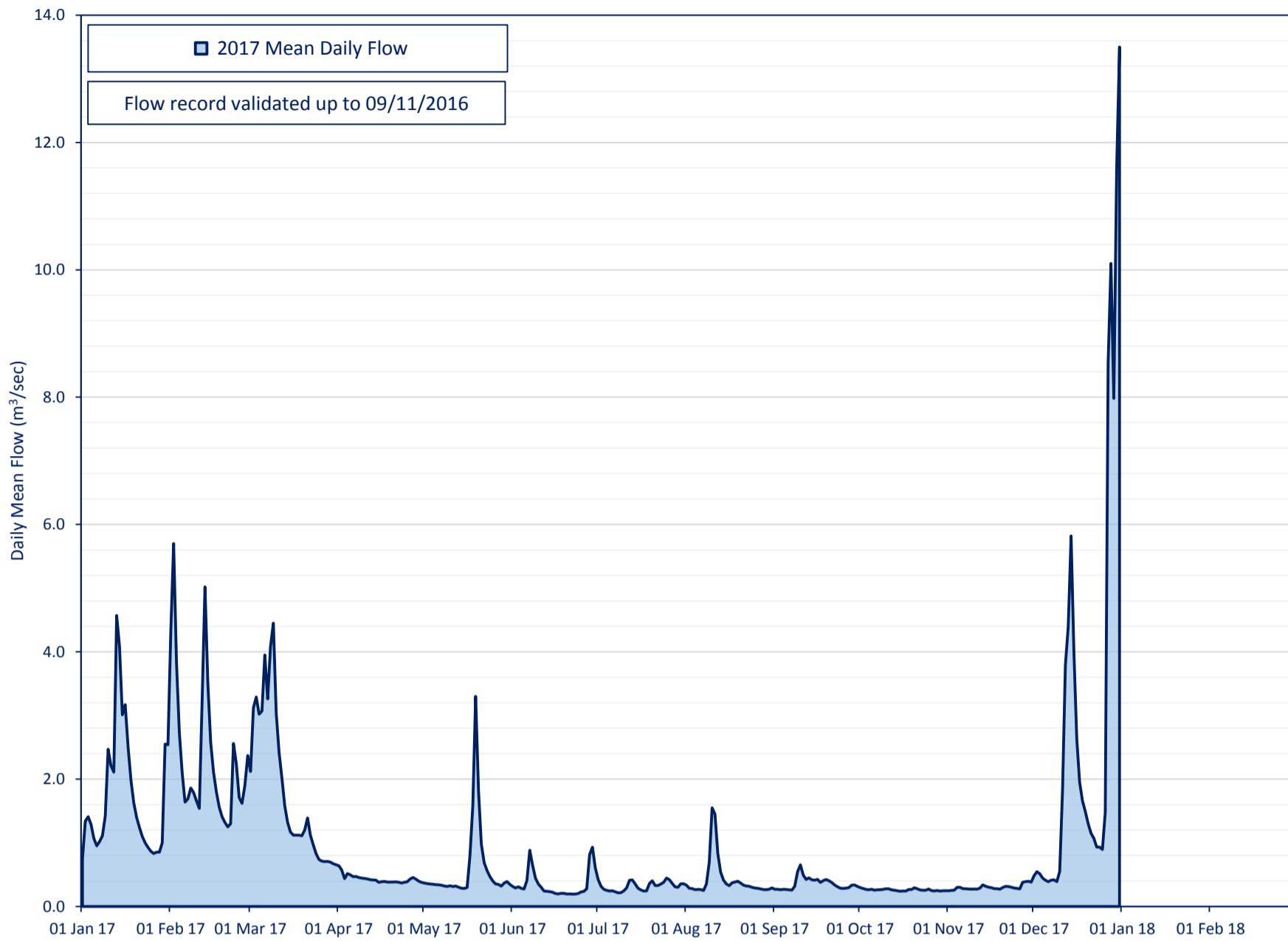
River Tas at Shotesham (12 Month Hydrograph)



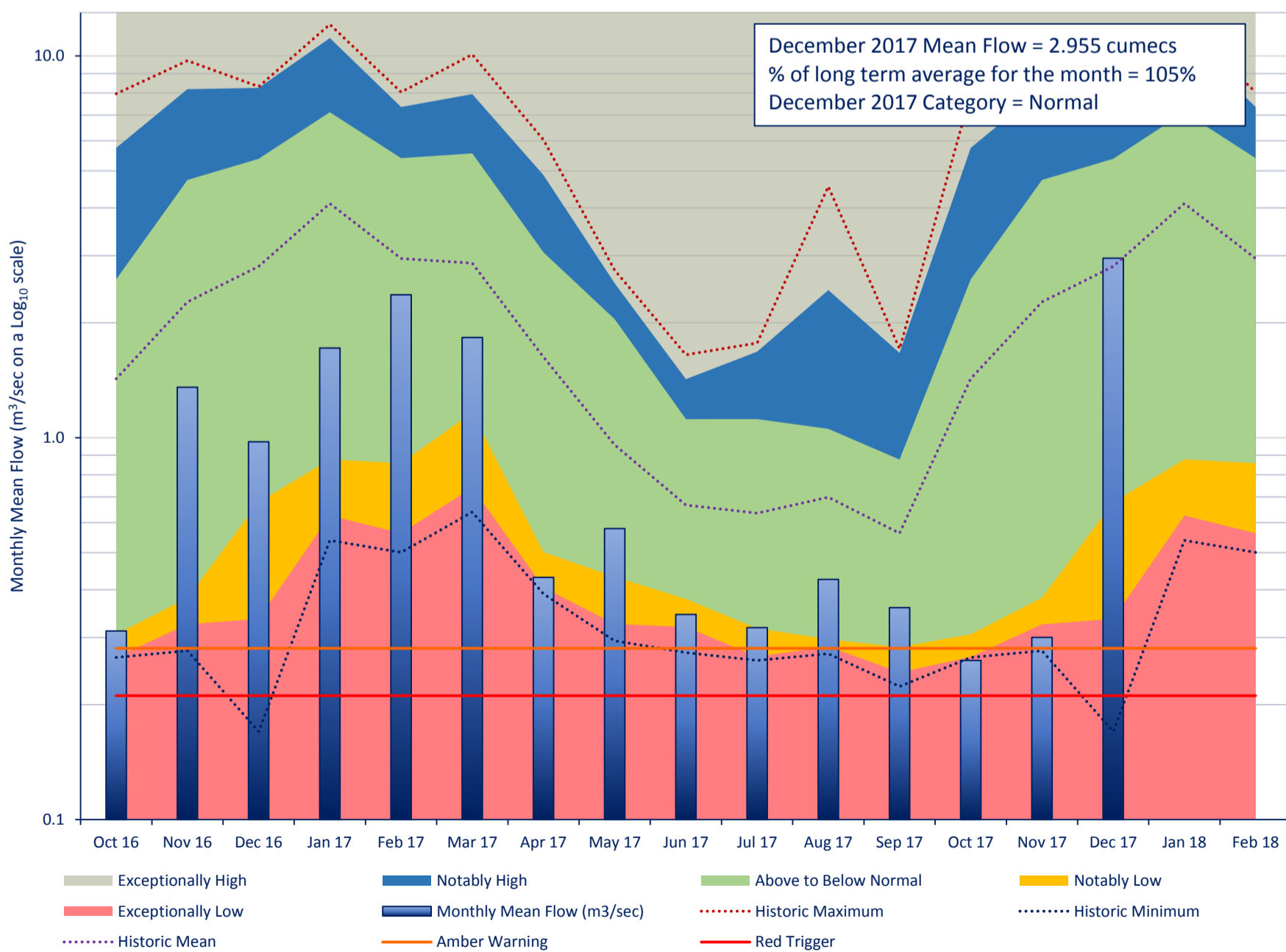
River Tas at Shotesham Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



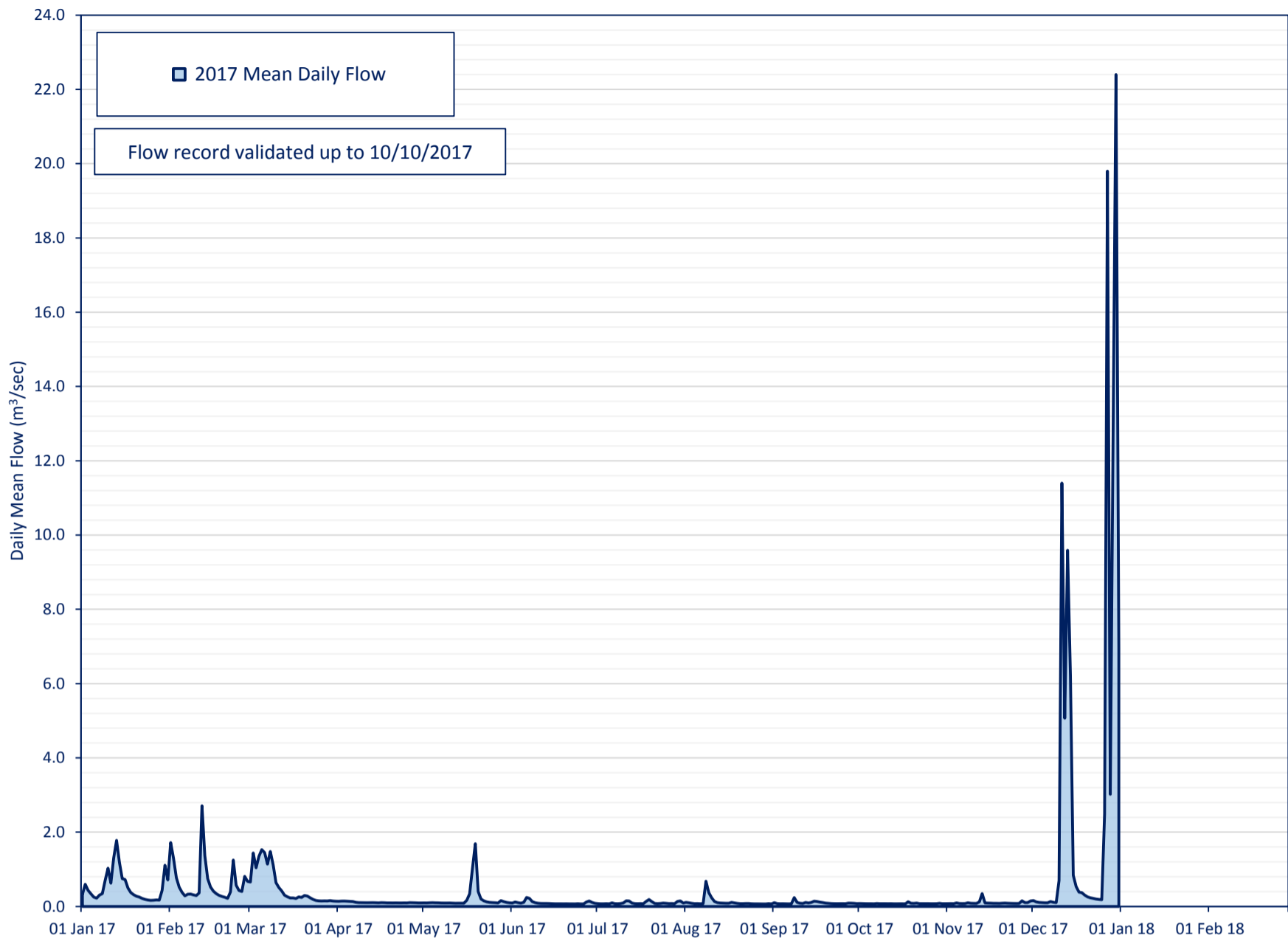
River Waveney at Needham (12 Month Hydrograph)



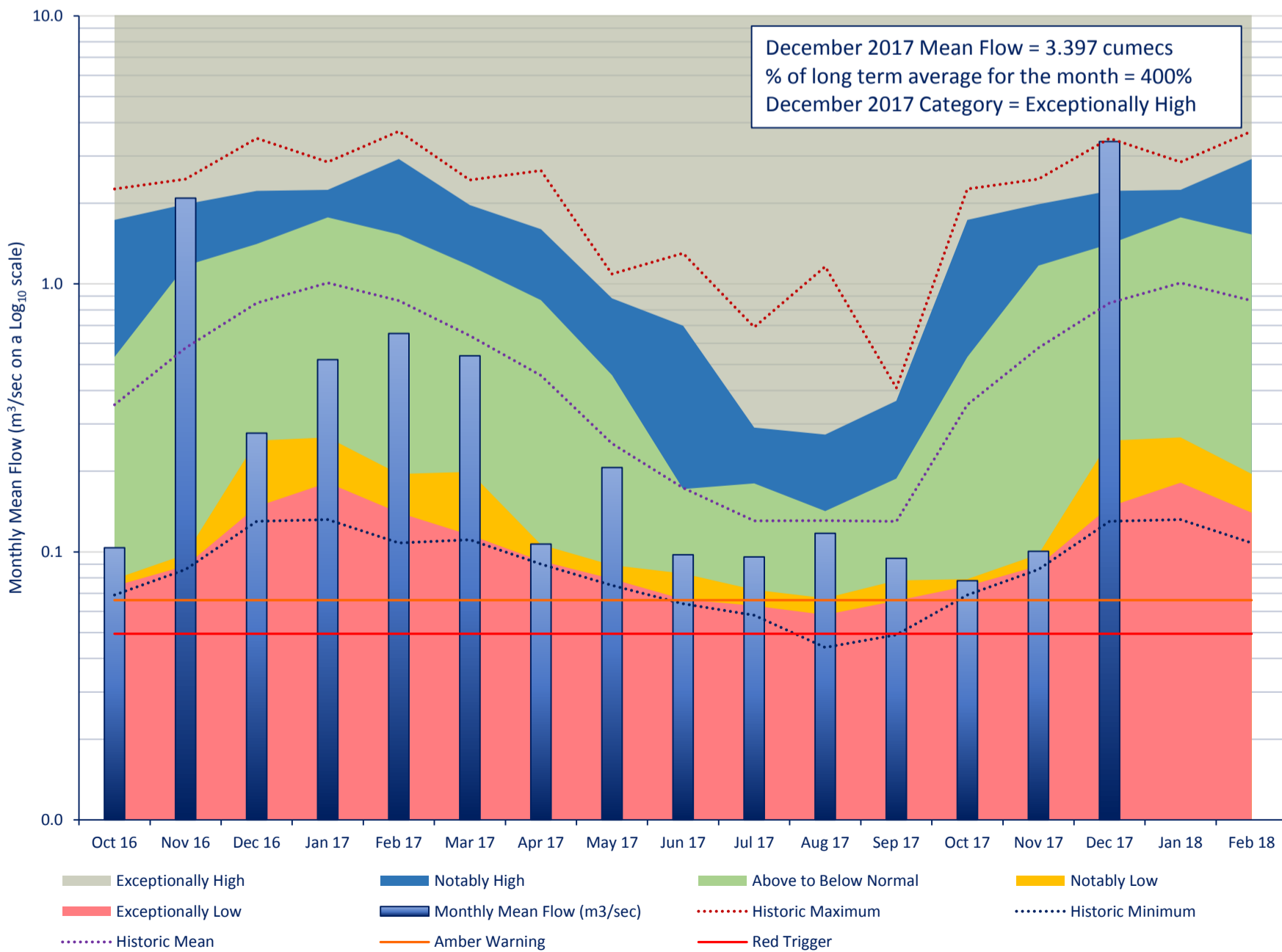
River Waveney at Needham Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



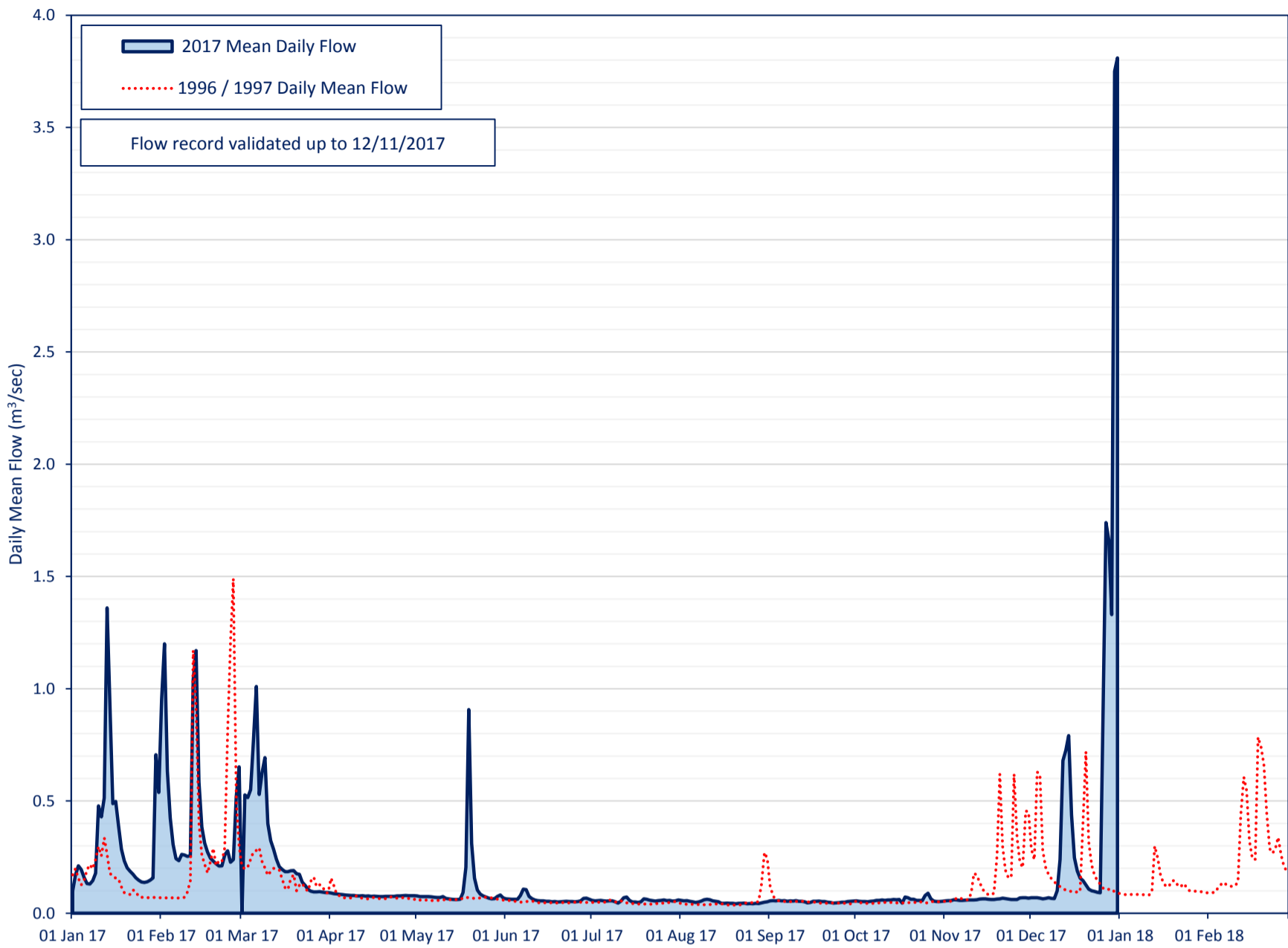
River Blyth at Holton (12 Month Hydrograph)



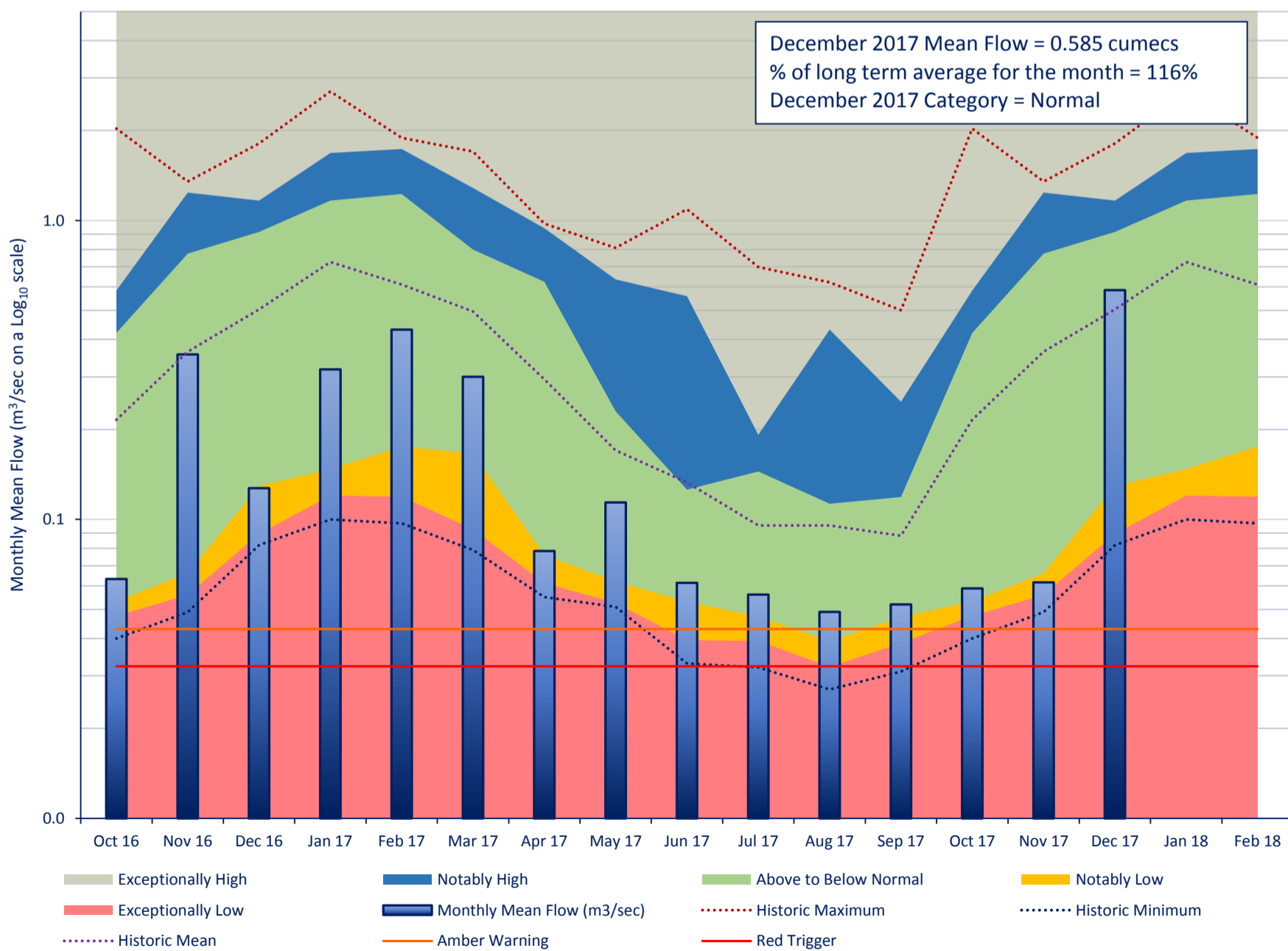
River Blyth at Holton Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



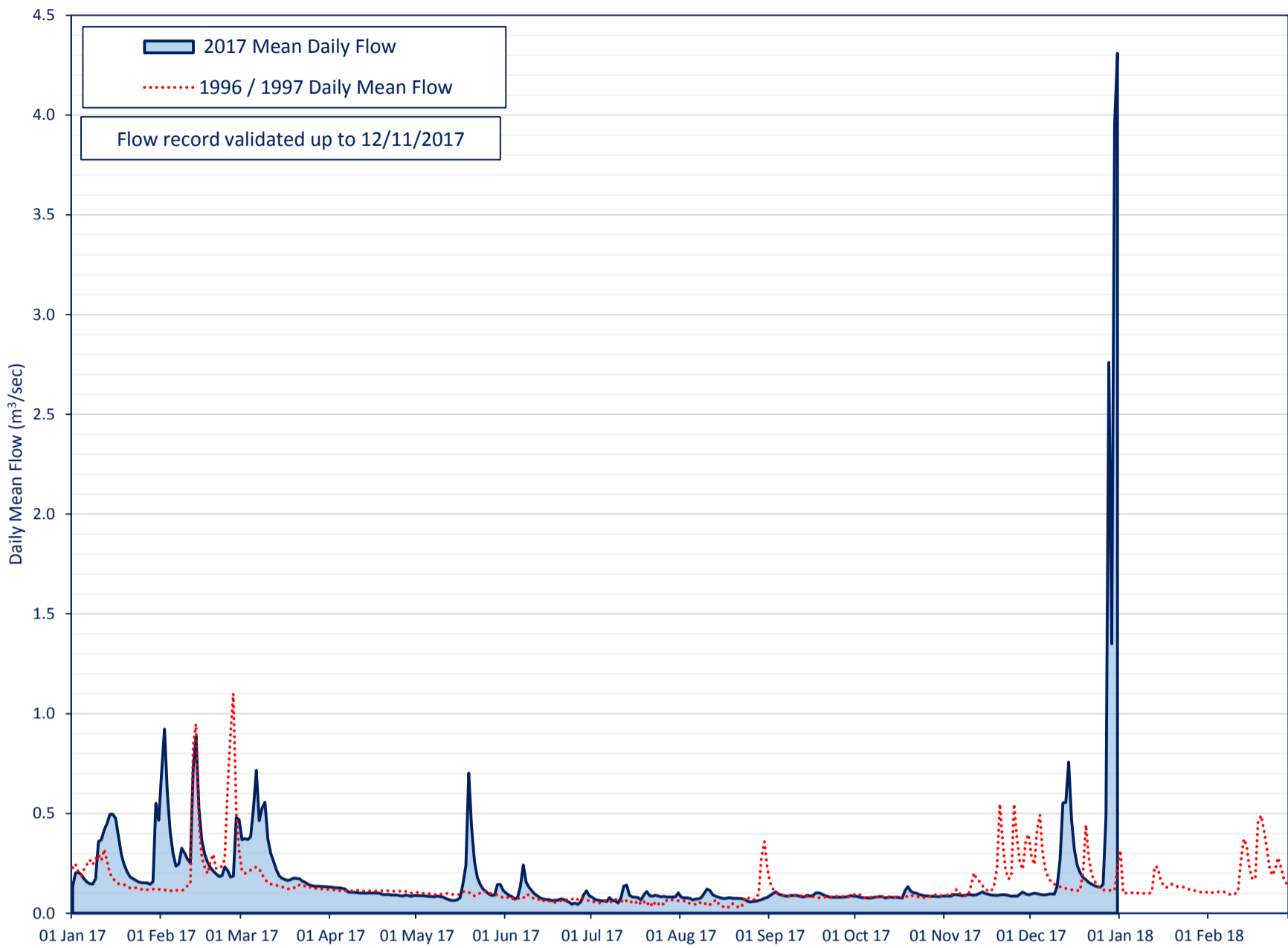
River Alde at Farnham (12 Month Hydrograph)



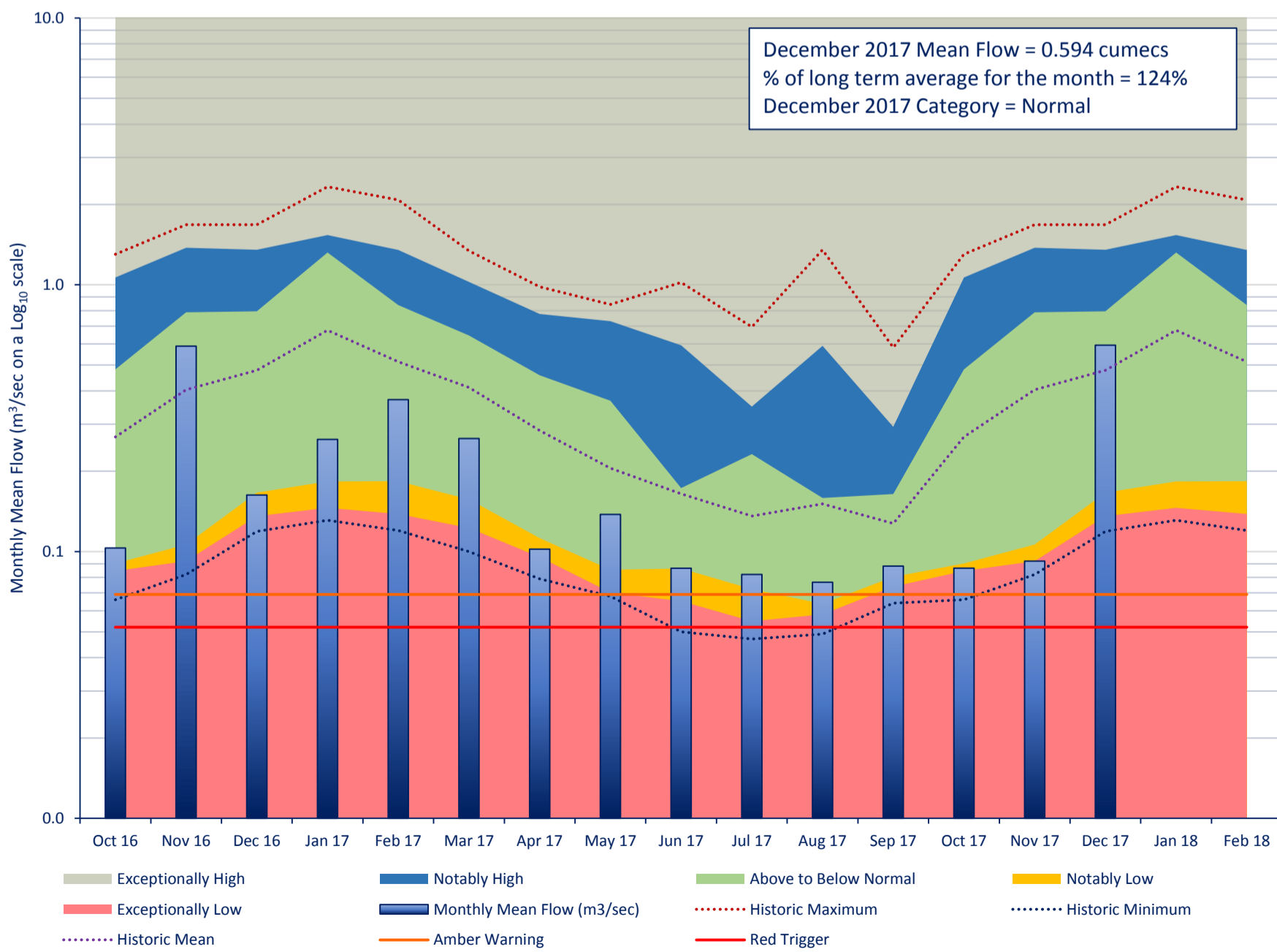
River Alde at Farnham Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



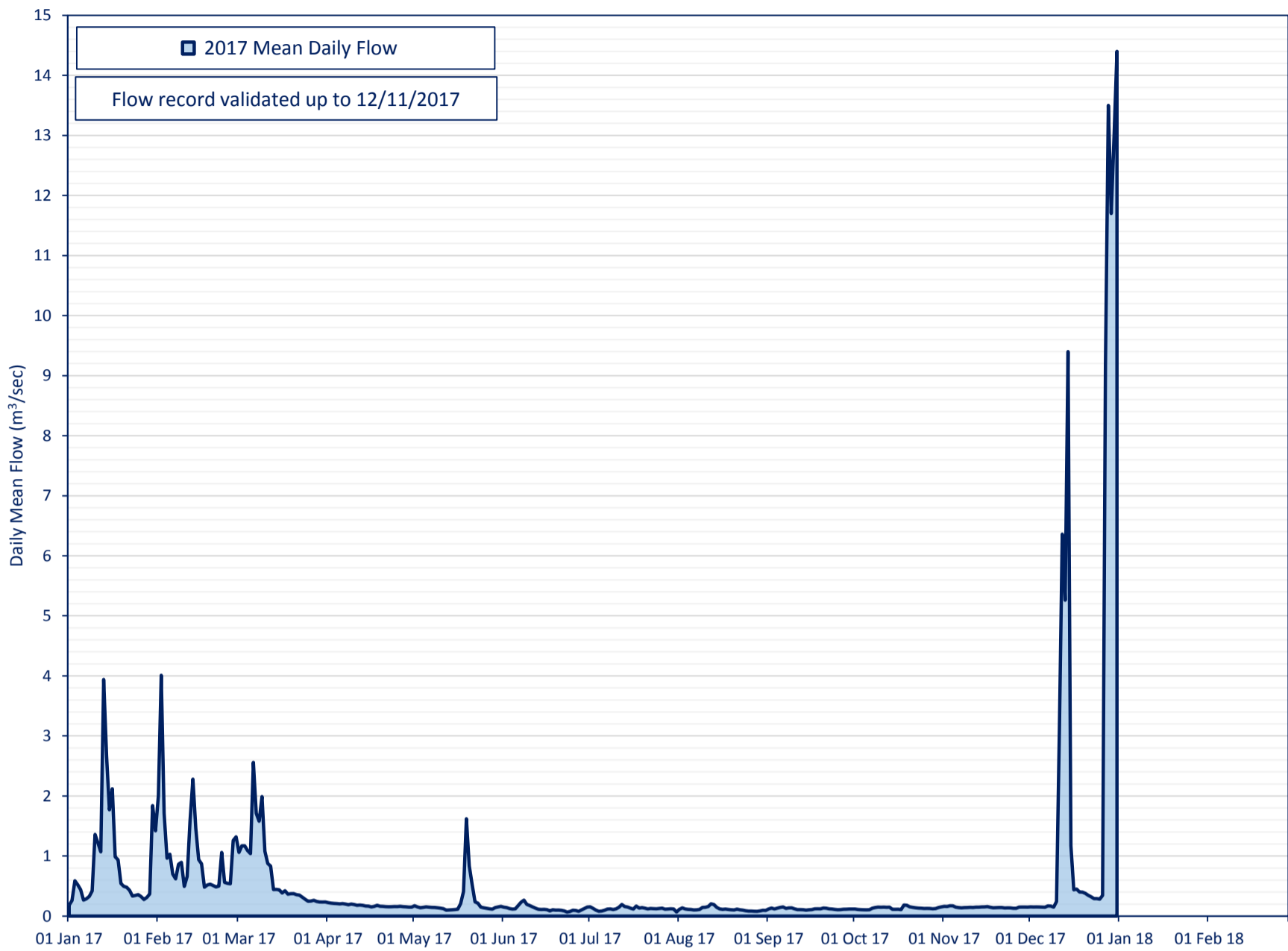
River Ore at Beversham (12 Month Hydrograph)



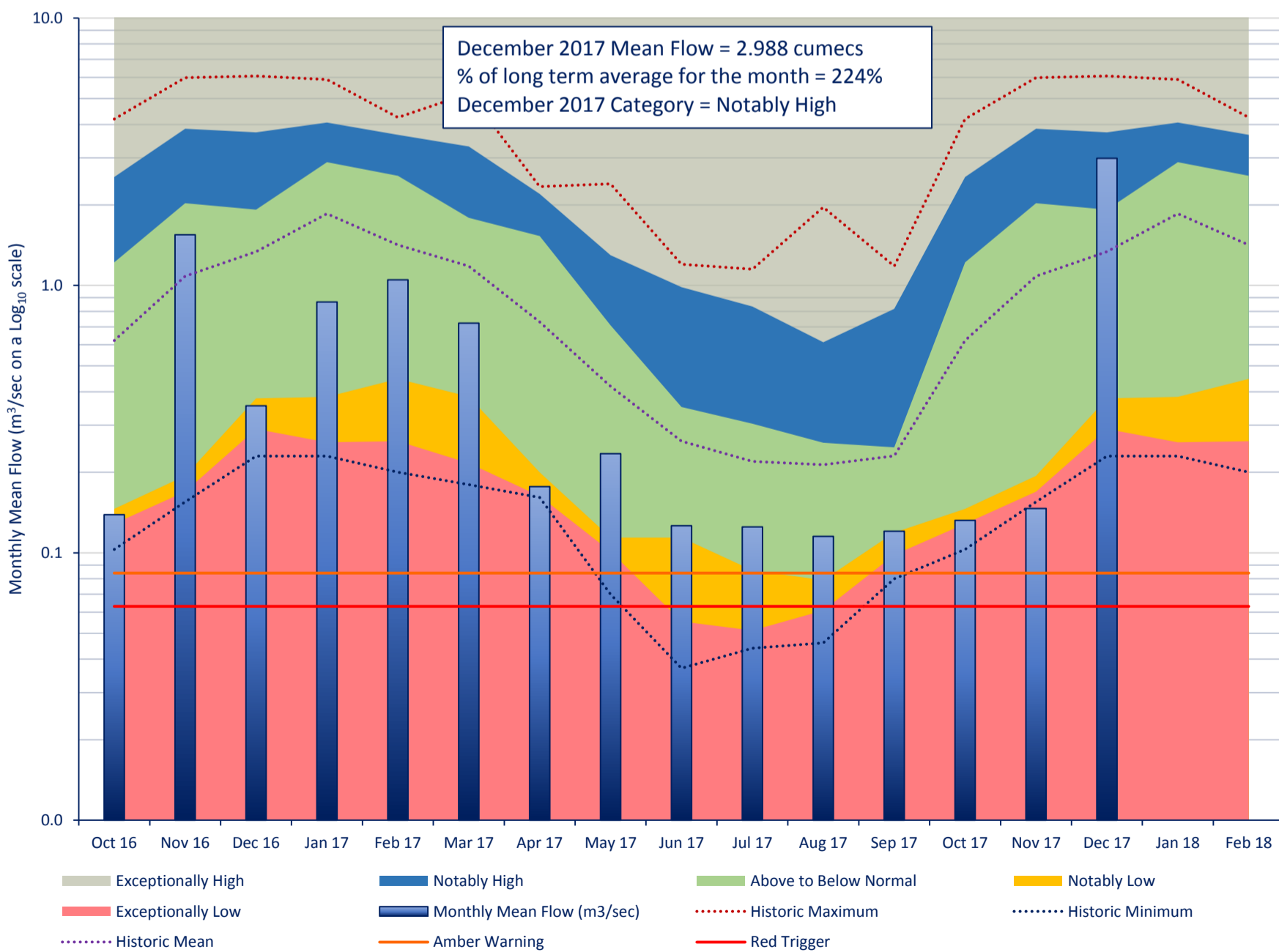
River Ore at Beversham Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



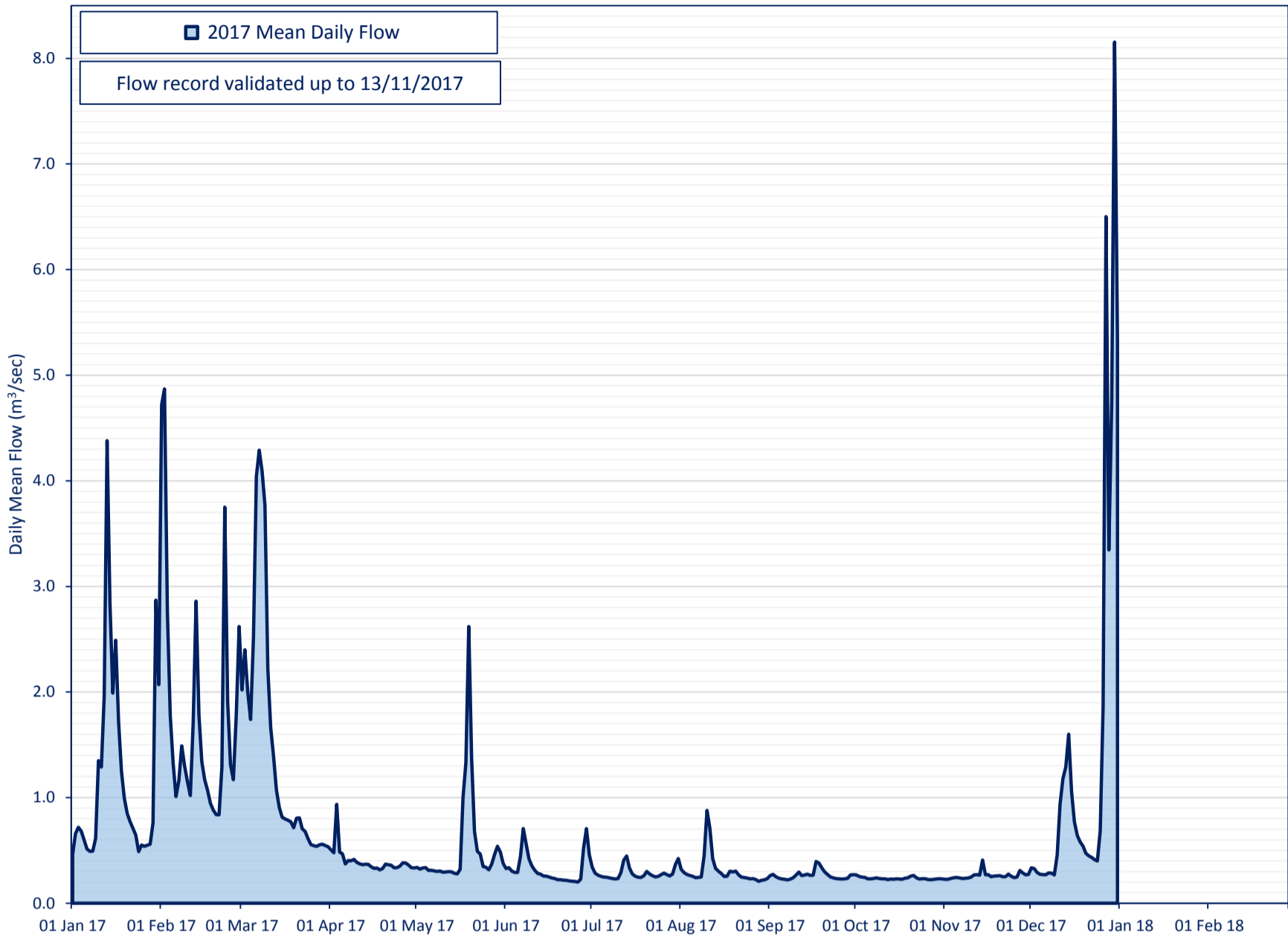
River Deben at Naunton Hall (12 Month Hydrograph)



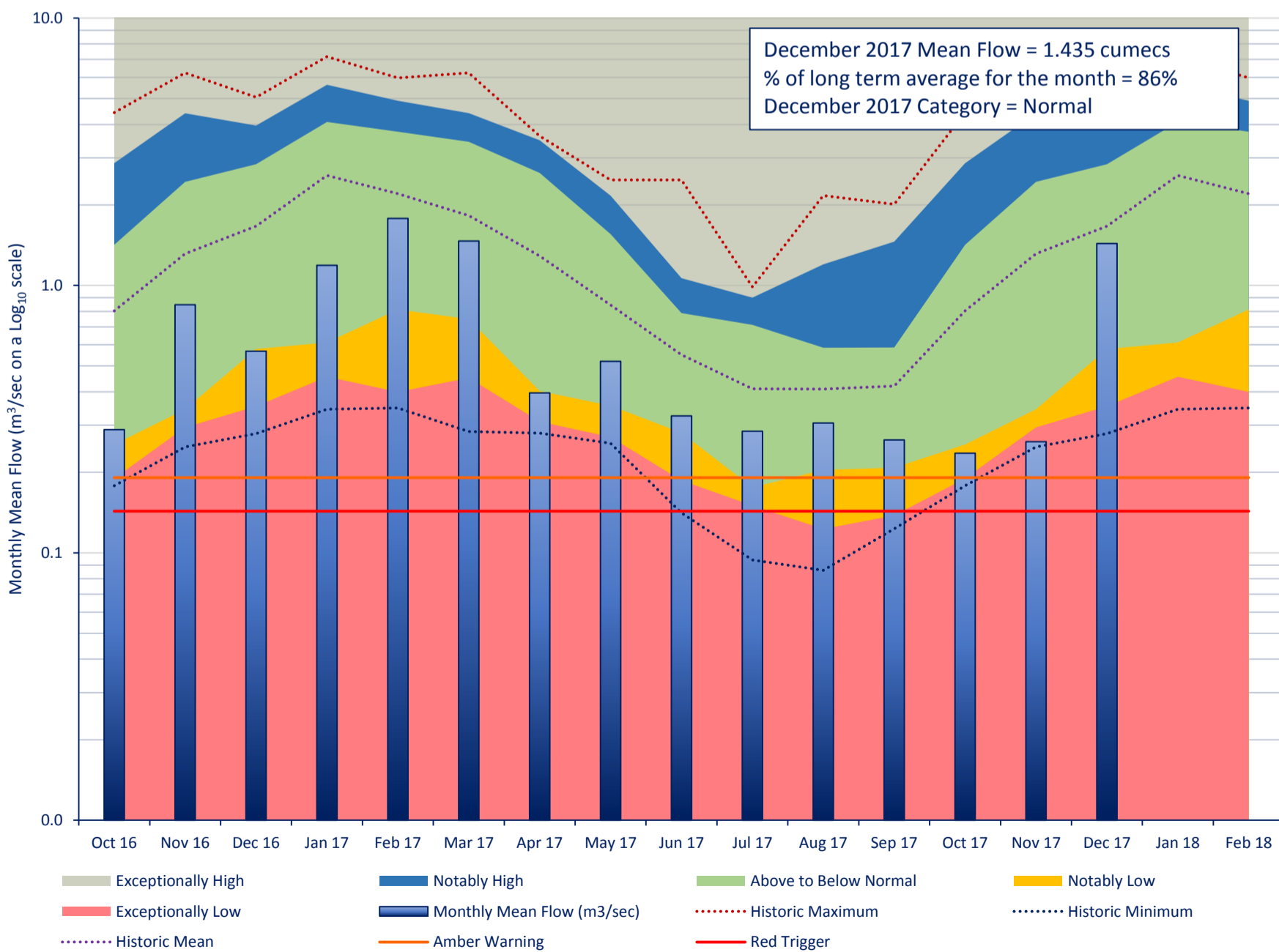
River Deben at Naunton Hall Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



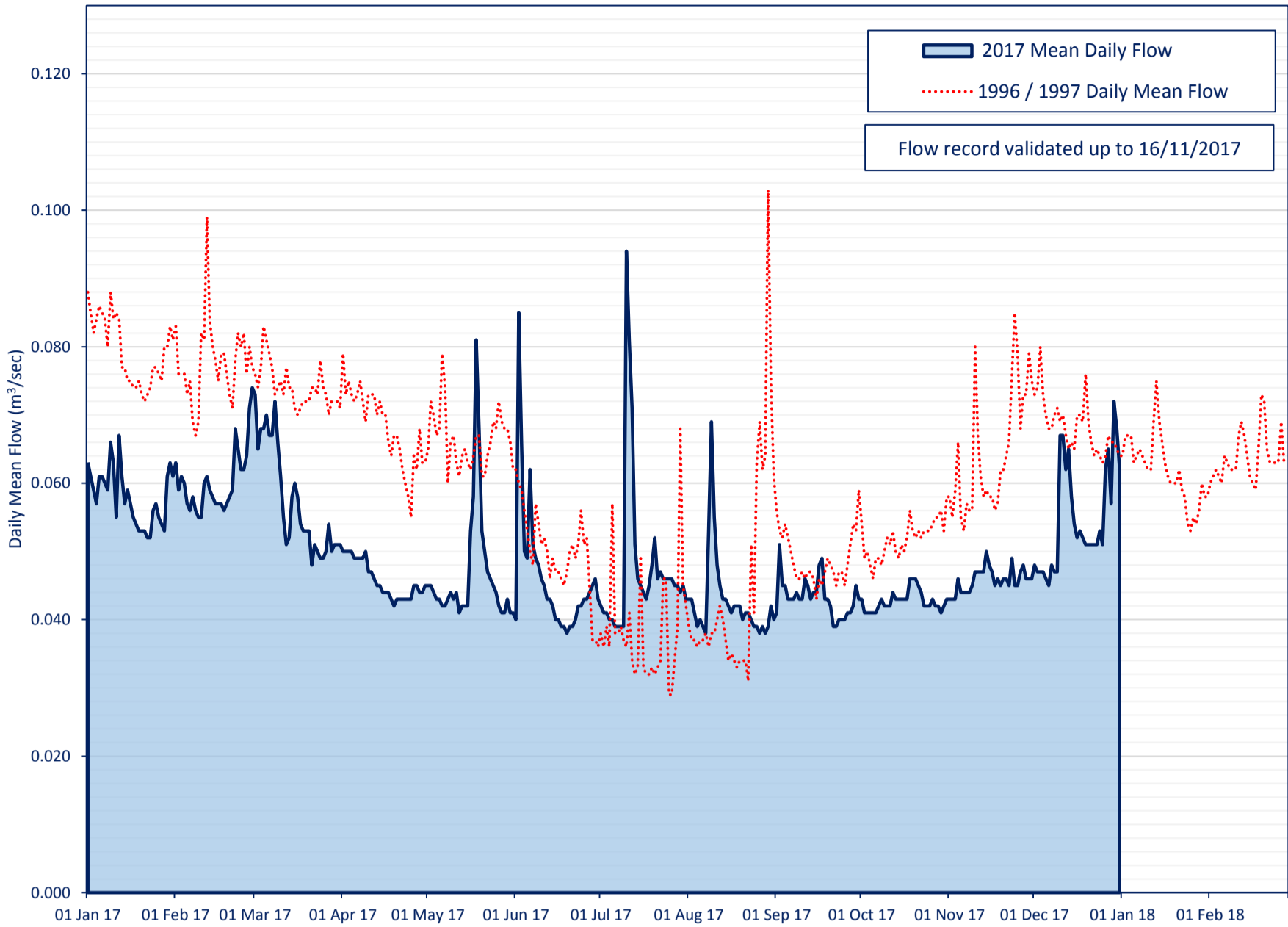
River Gipping at Bramford (12 Month Hydrograph)



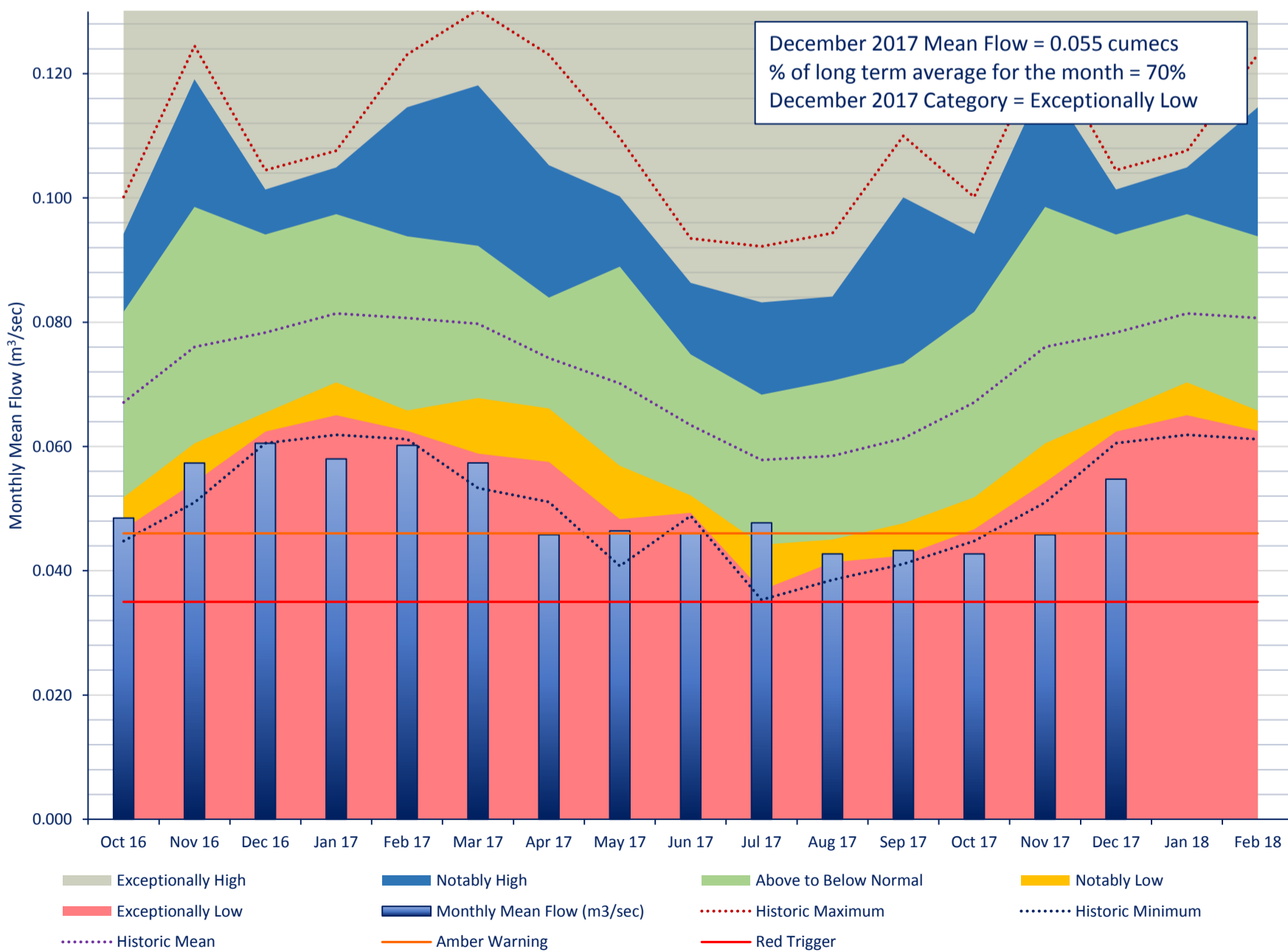
River Gipping at Bramford Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



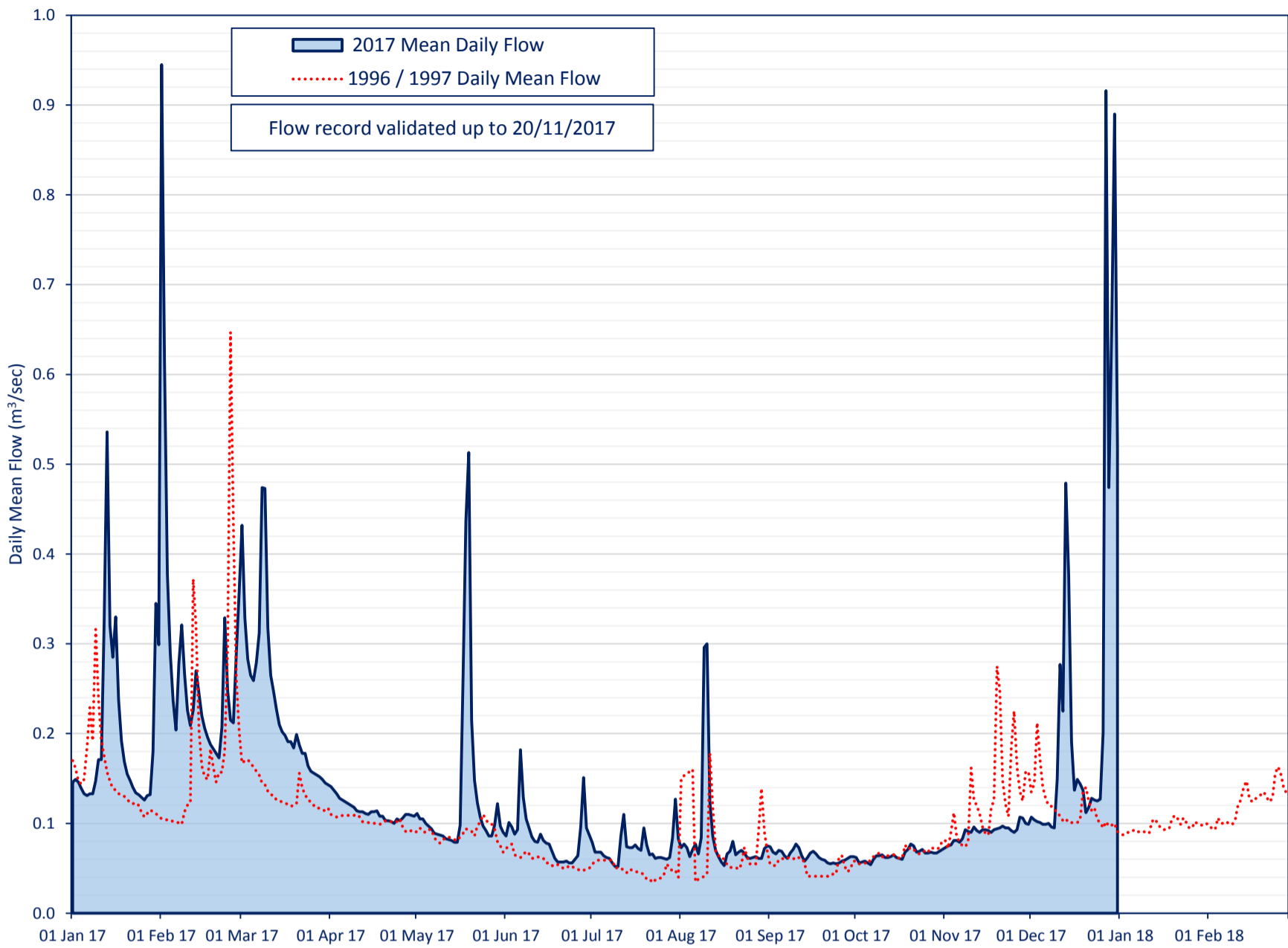
Black Ditch at Hollesley (12 Month Hydrograph)



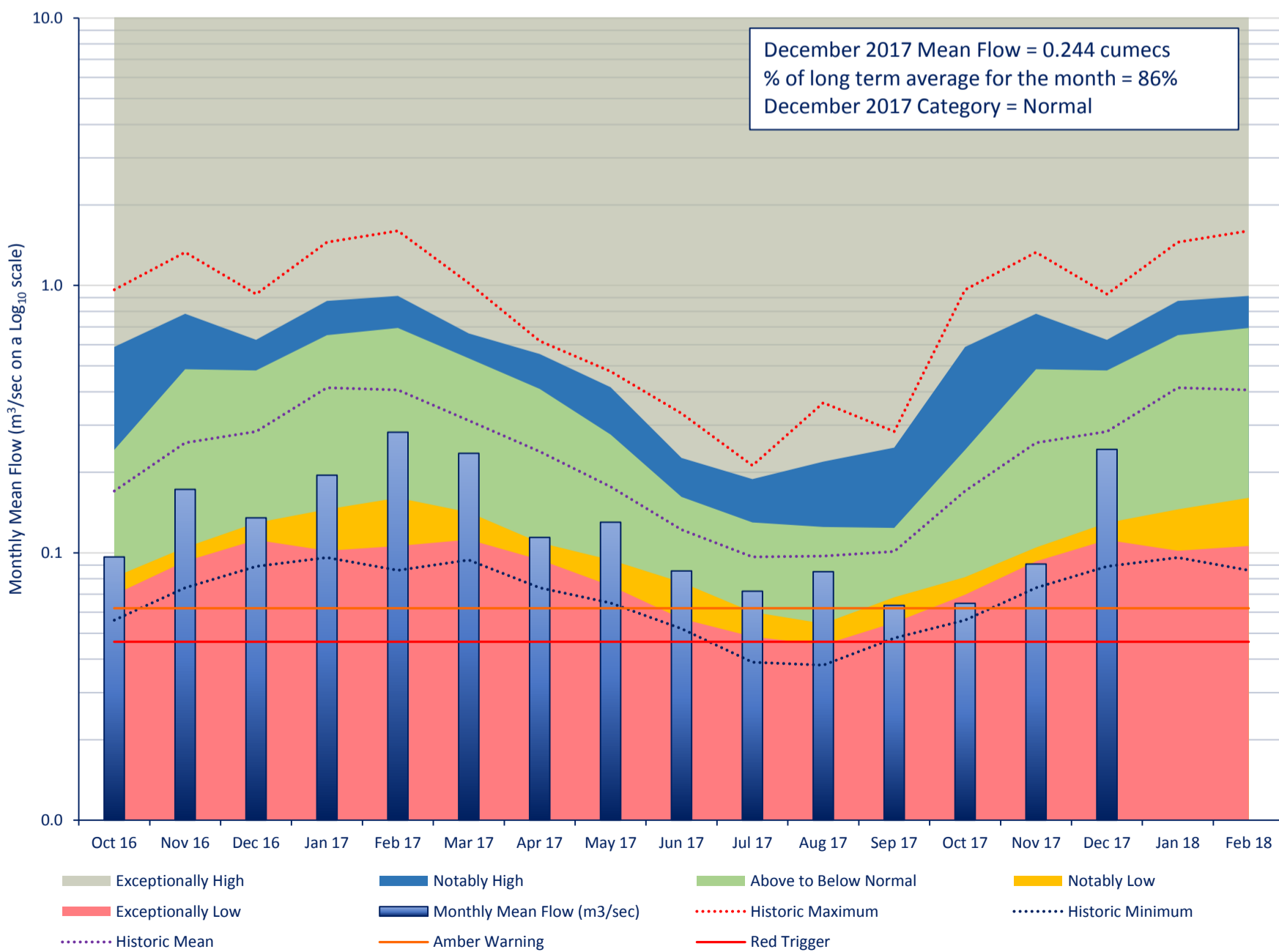
Black Ditch at Hollesley Flow Categorisation 1995-2016 (Featured Years - 2016 & 2017)



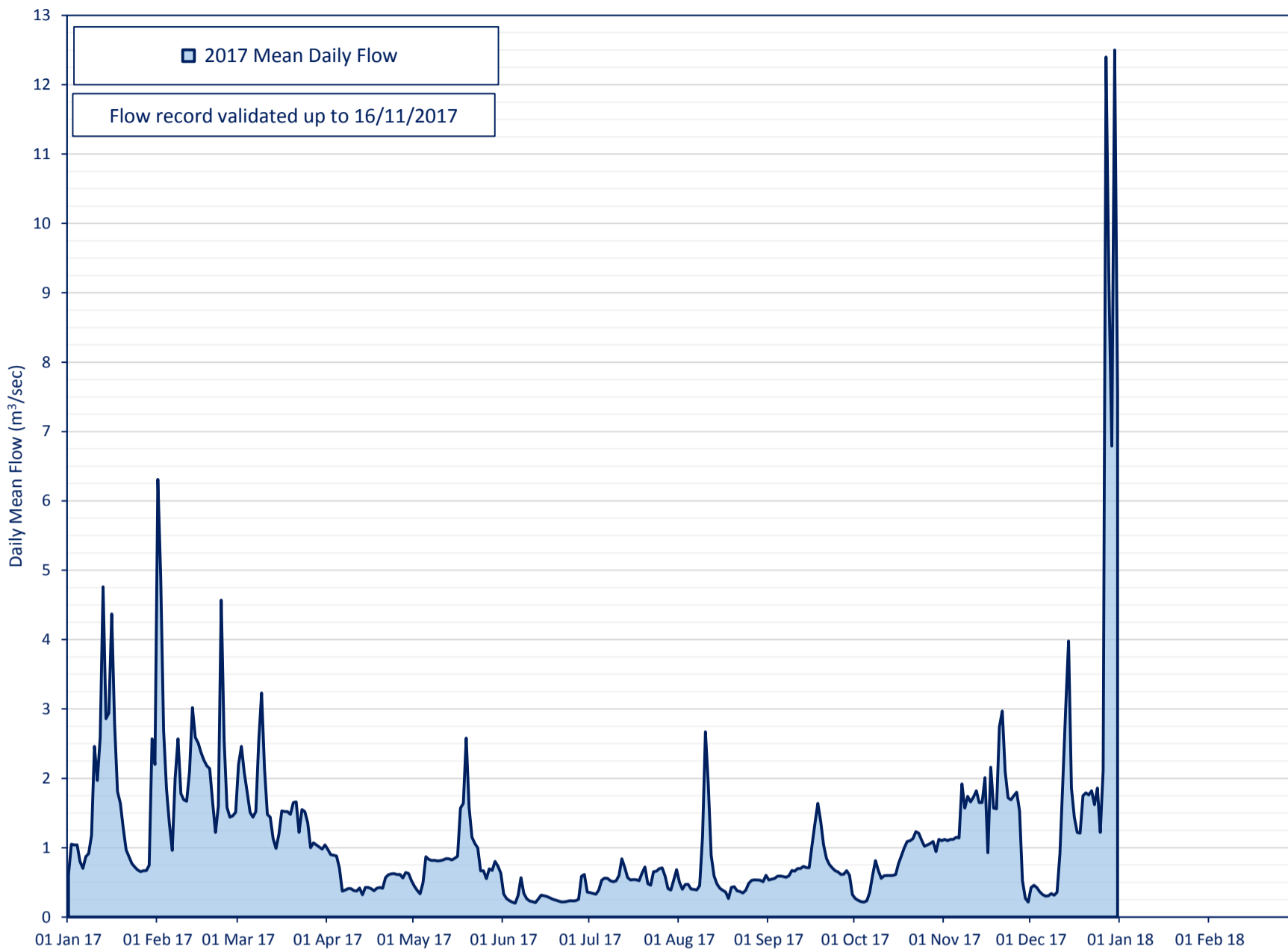
River Box at Polstead (12 Month Hydrograph)



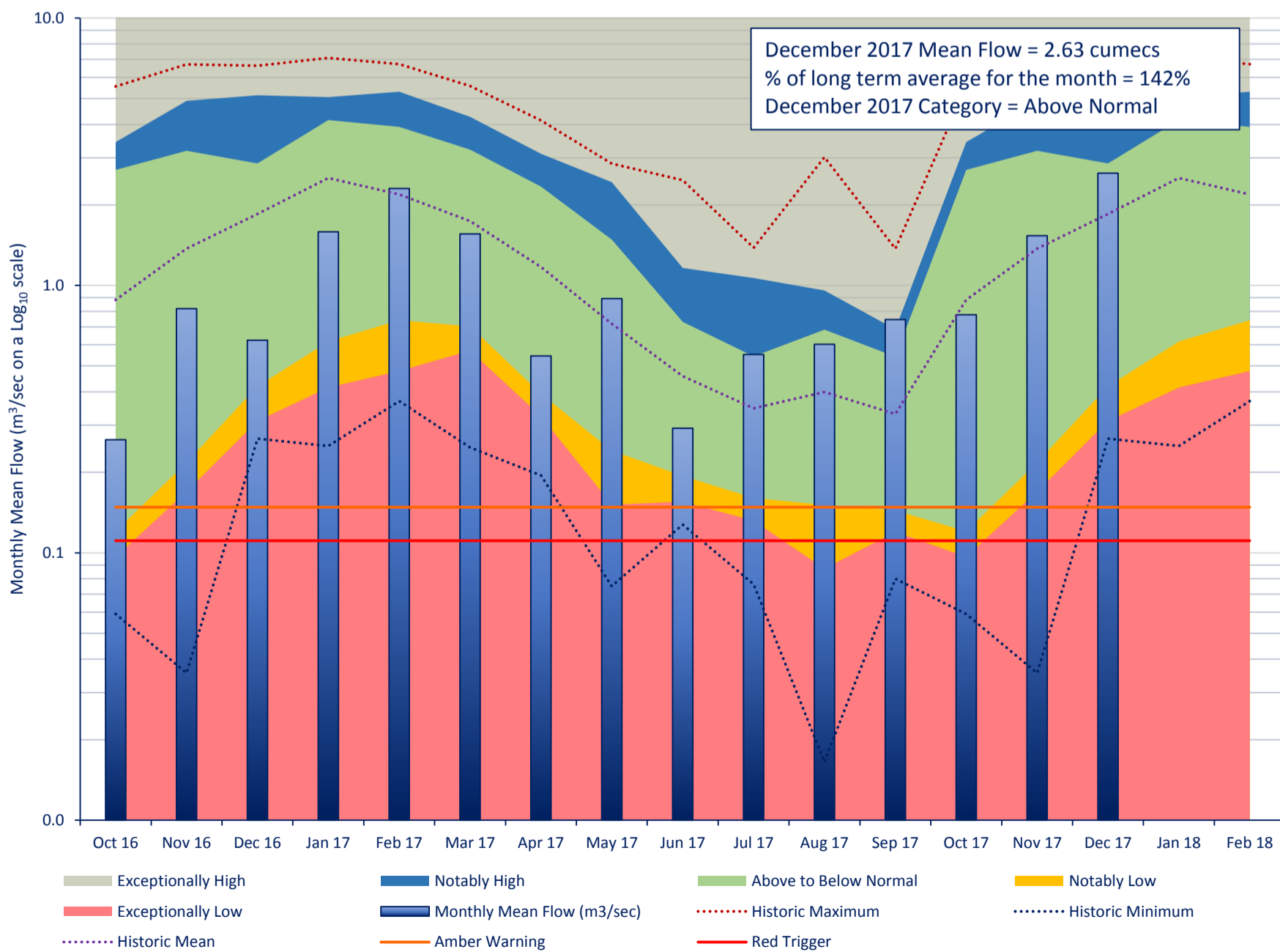
River Box at Polstead Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



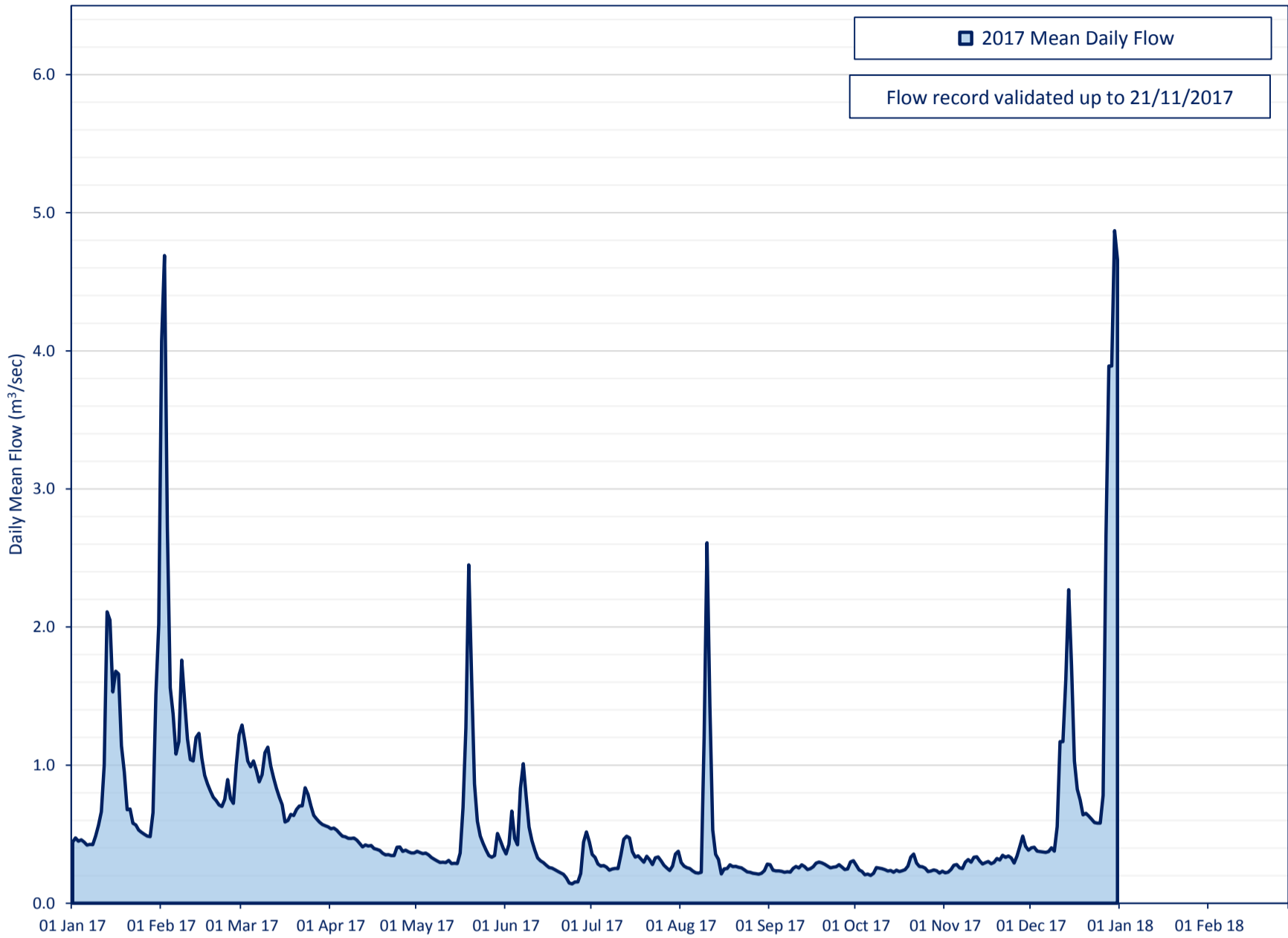
River Stour at Westmill (12 Month Hydrograph)



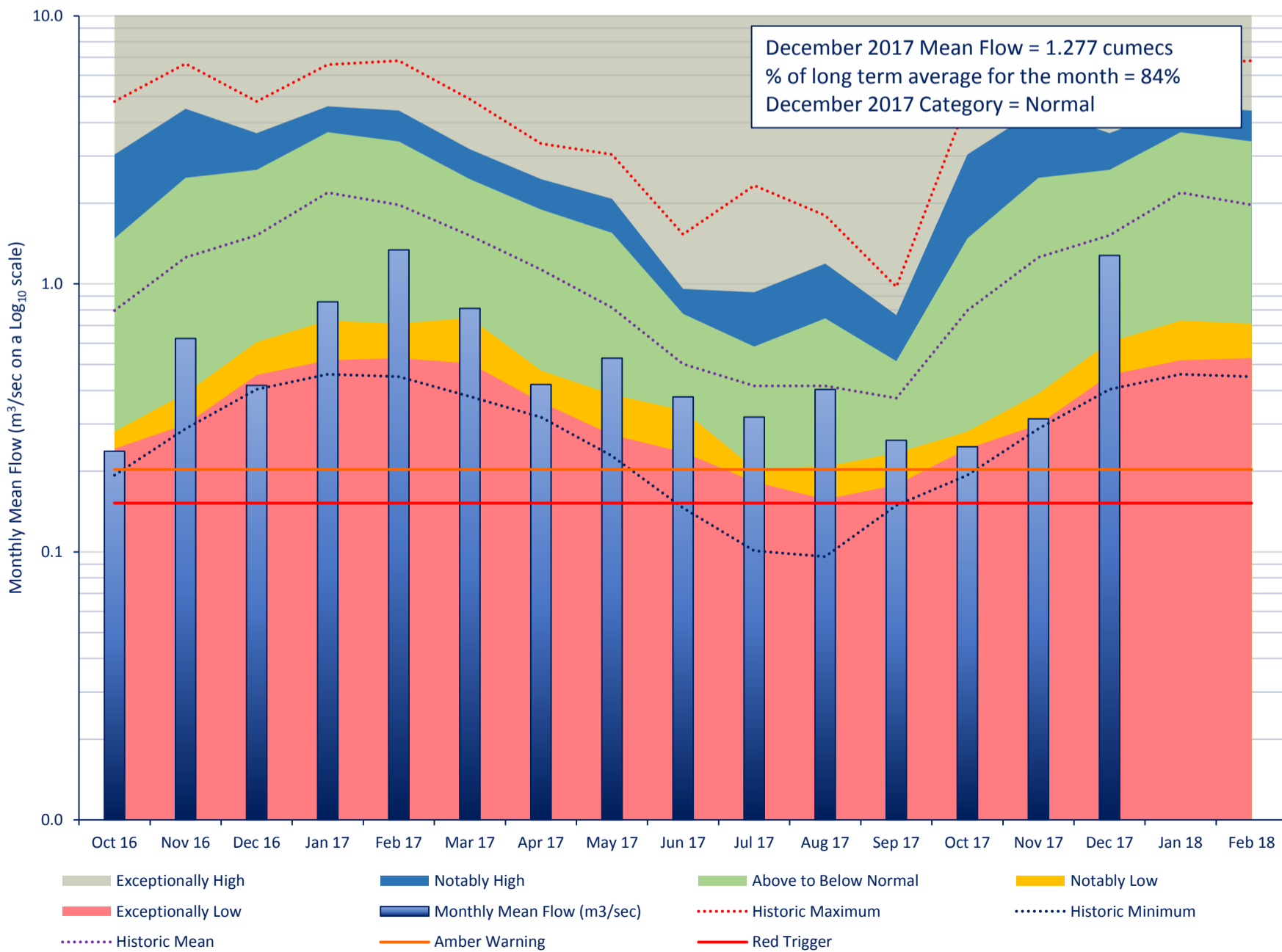
River Stour at Westmill Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



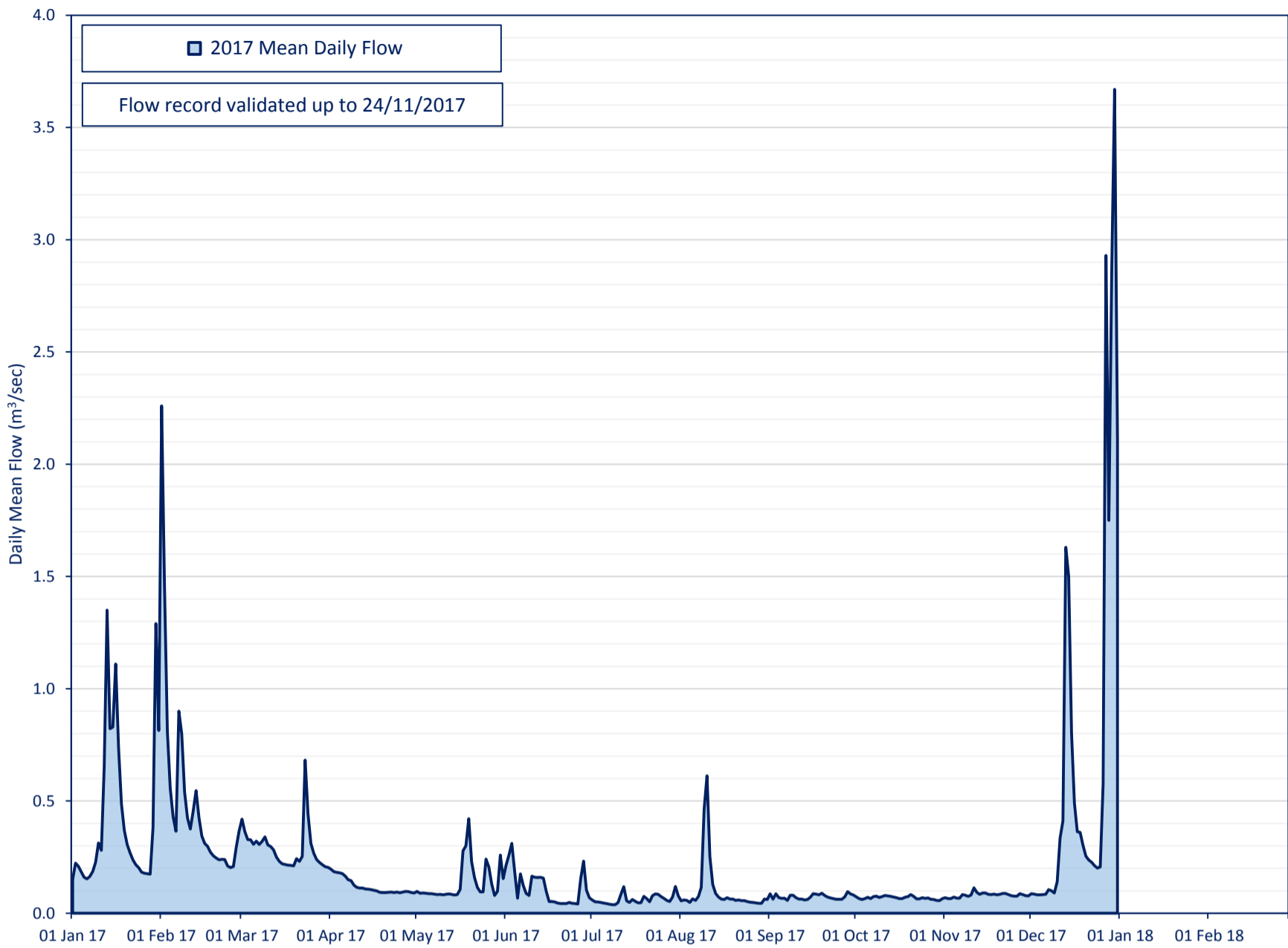
River Colne at Lexden (12 Month Hydrograph)



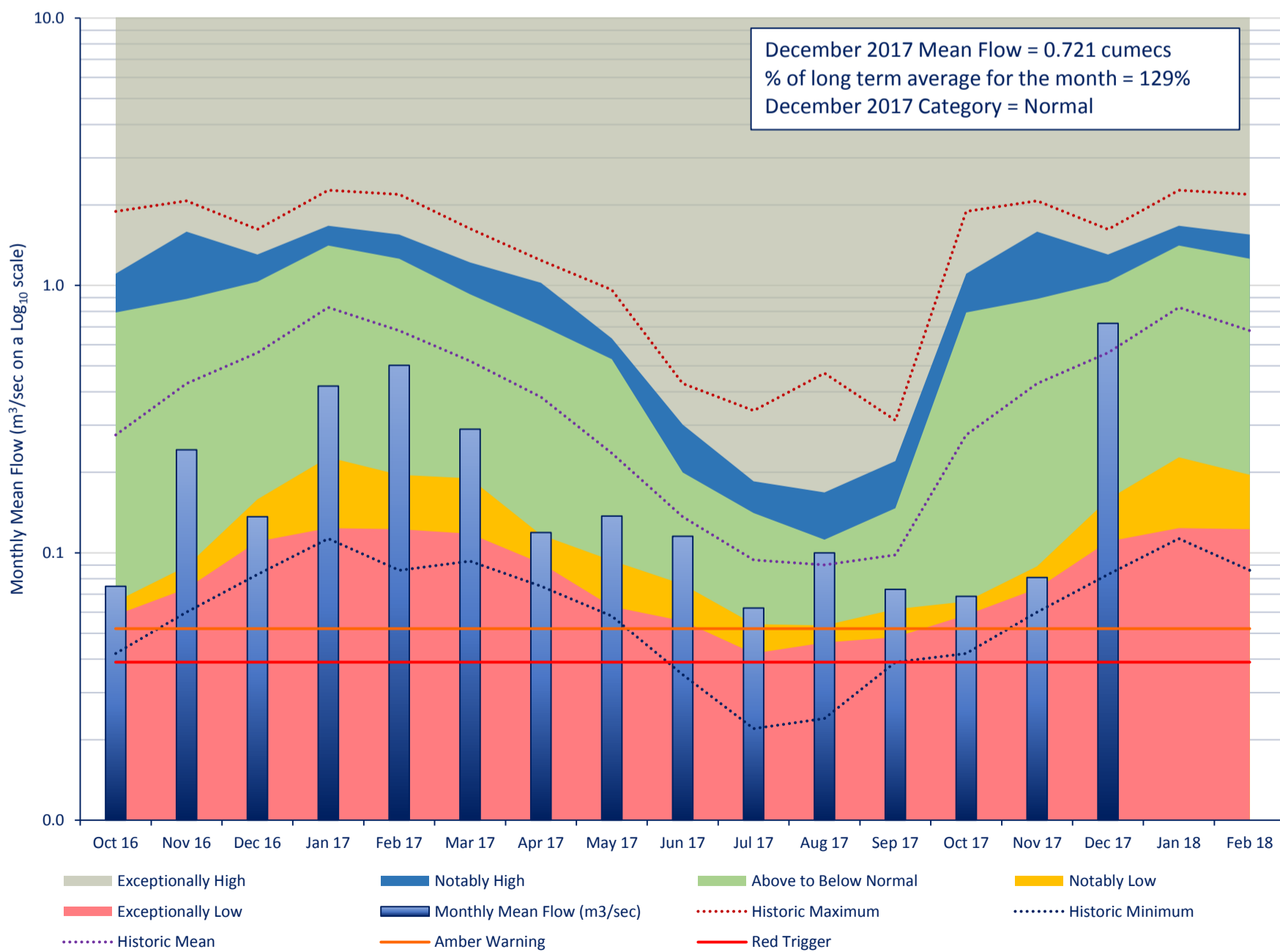
River Colne at Lexden Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



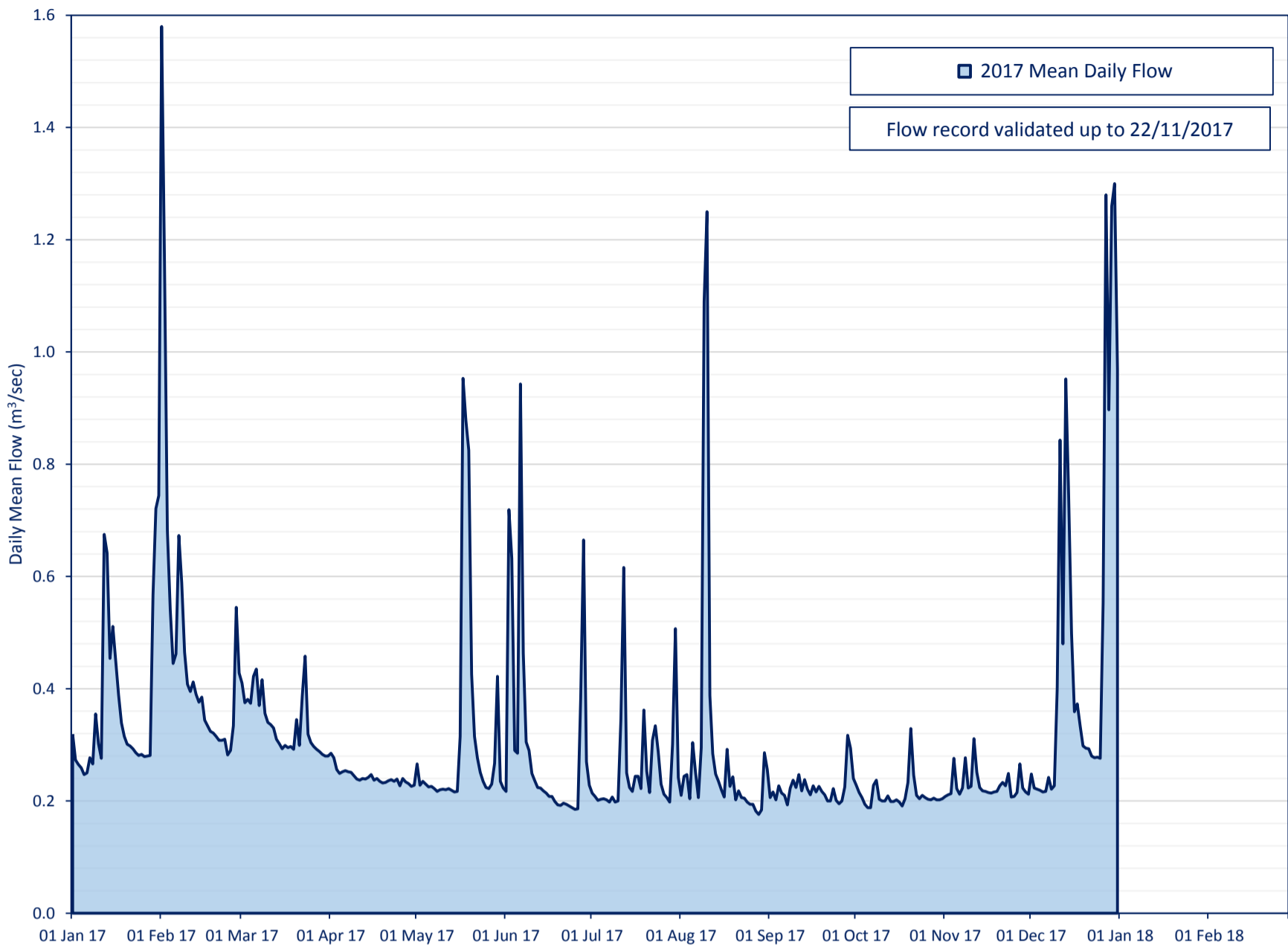
River Chelmer at Churchend (12 Month Hydrograph)



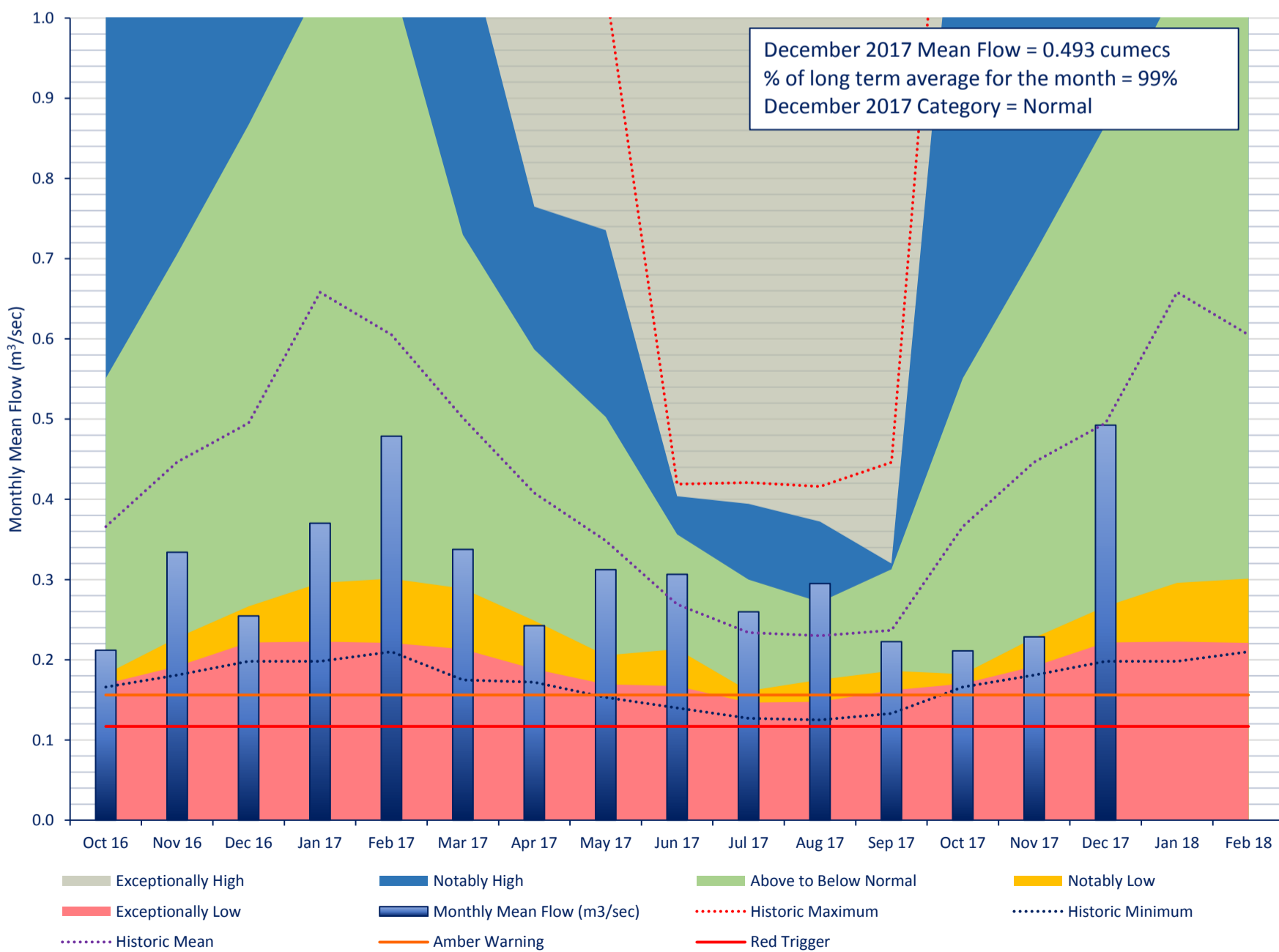
River Chelmer at Churchend Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



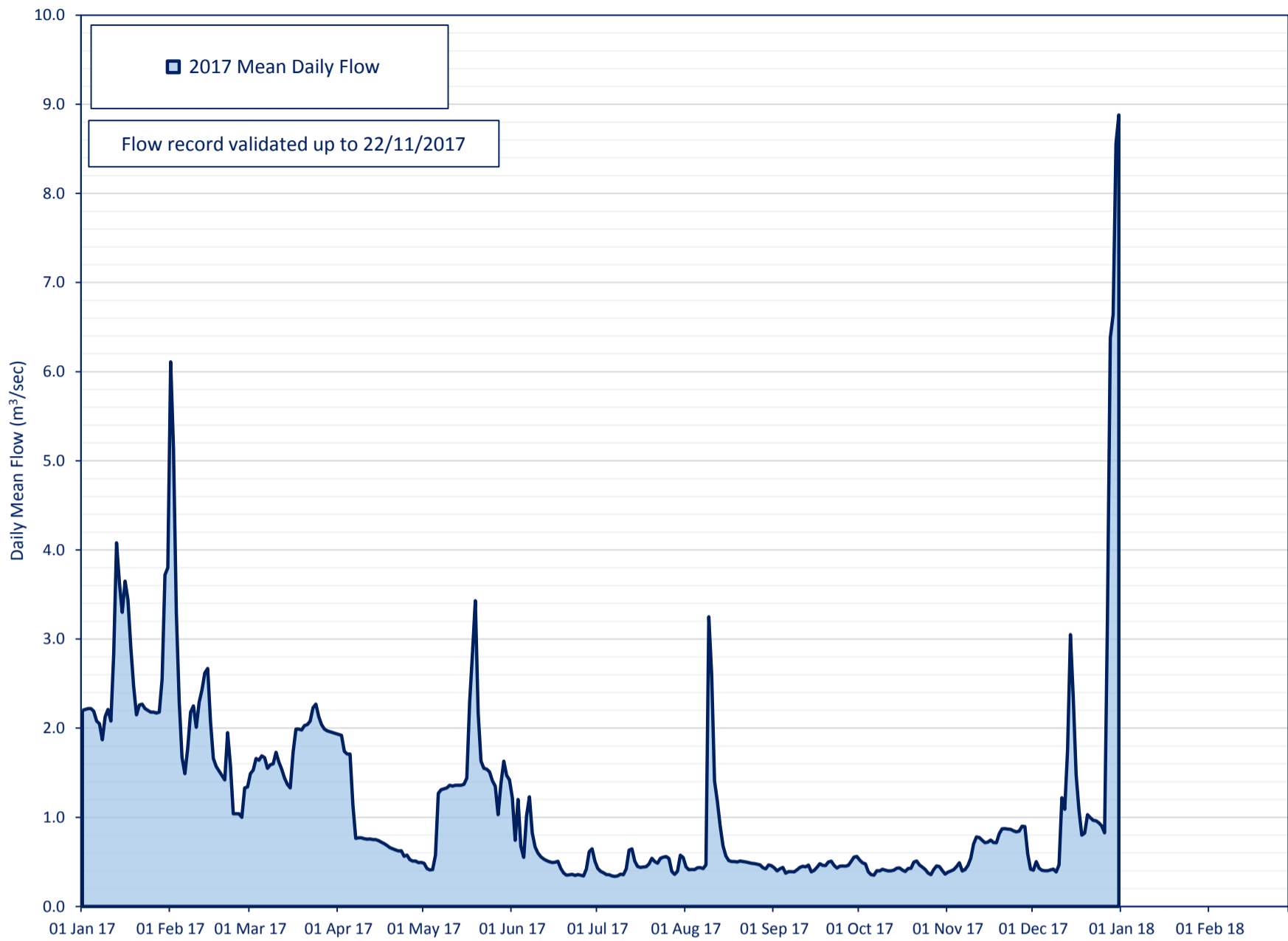
River Brain at Guithavon Valley (12 Month Hydrograph)



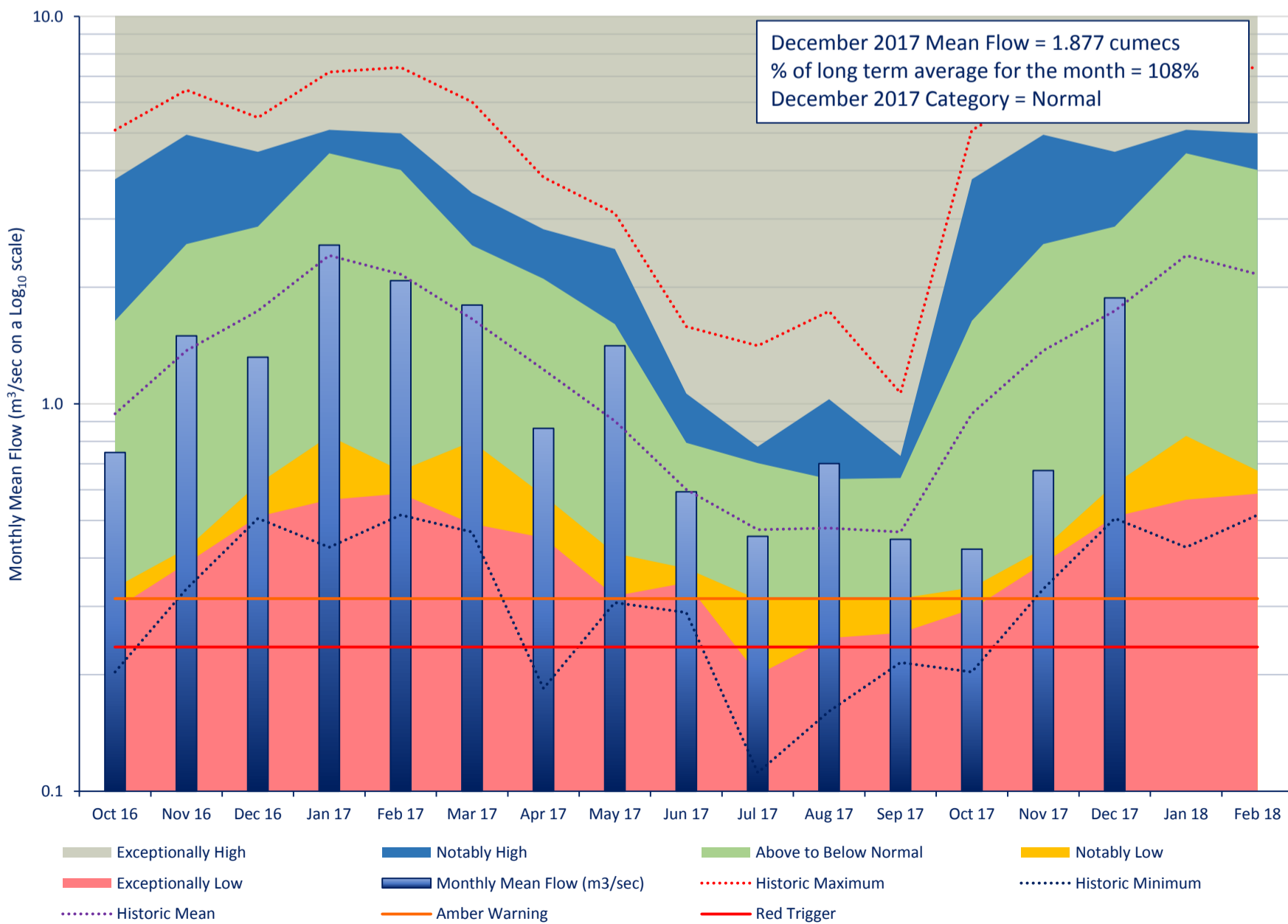
River Brain at Guithavon Valley Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



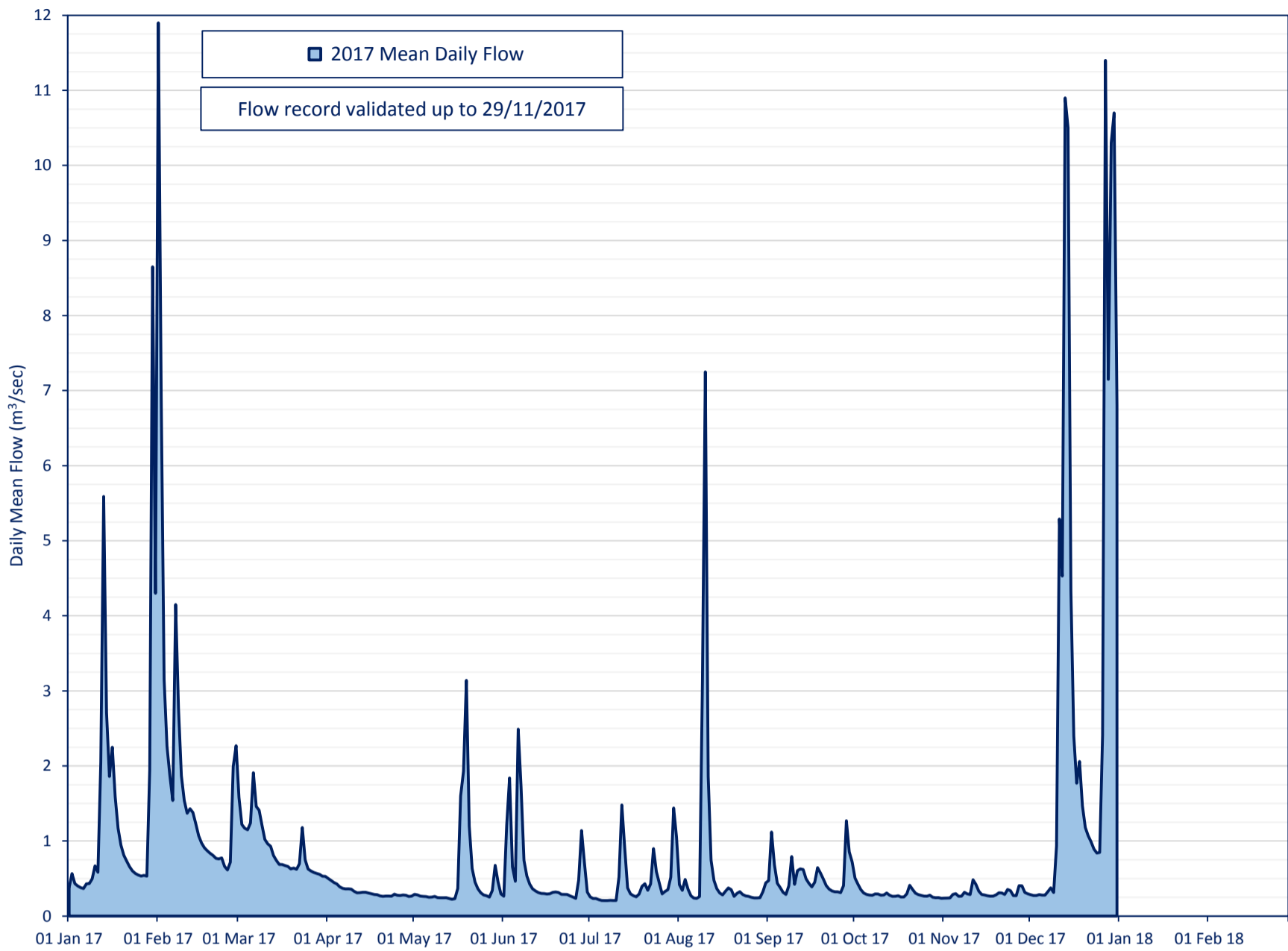
River Blackwater at Appleford Bridge (12 Month Hydrograph)



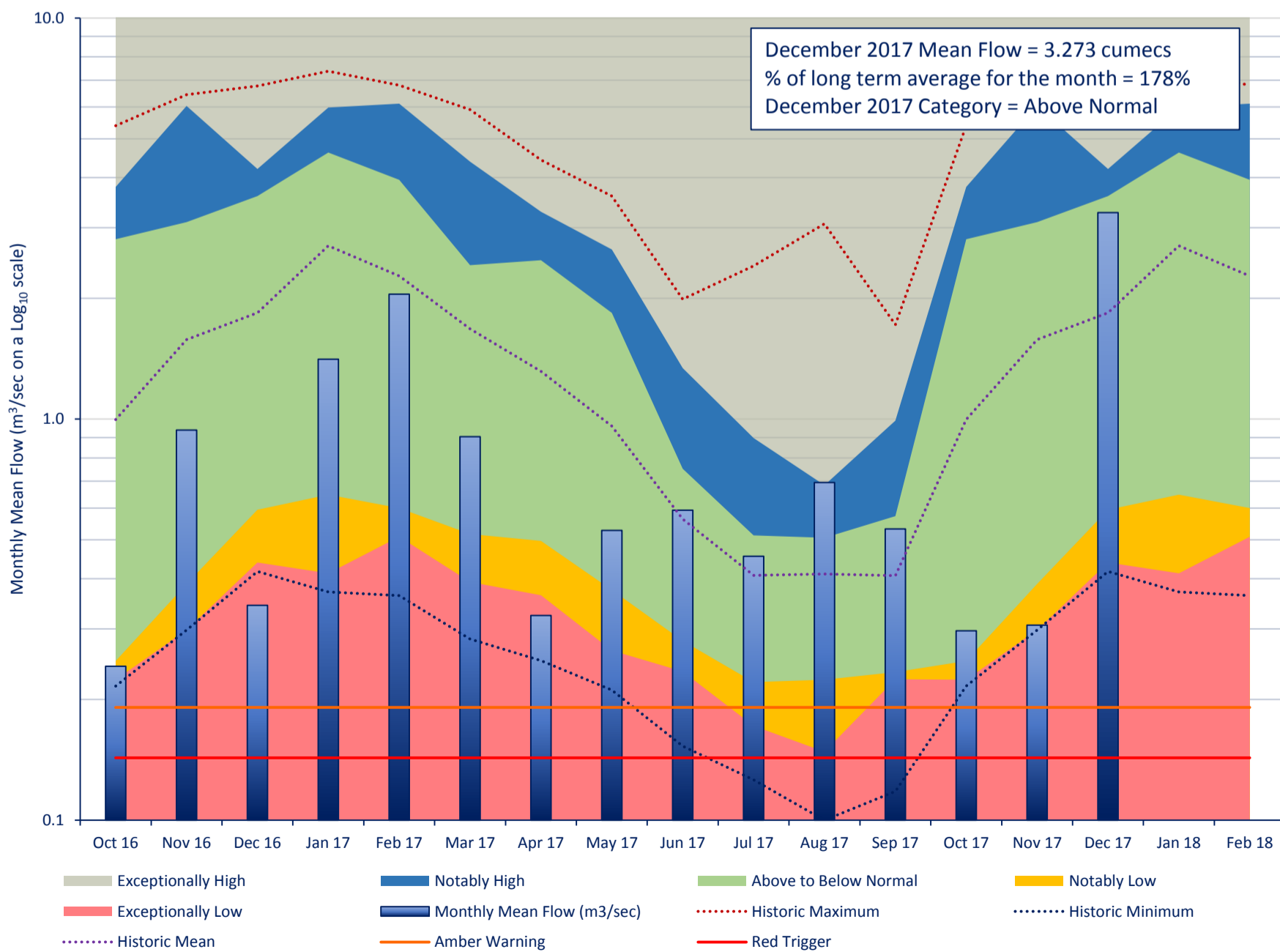
River Blackwater at Appleford Bridge Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



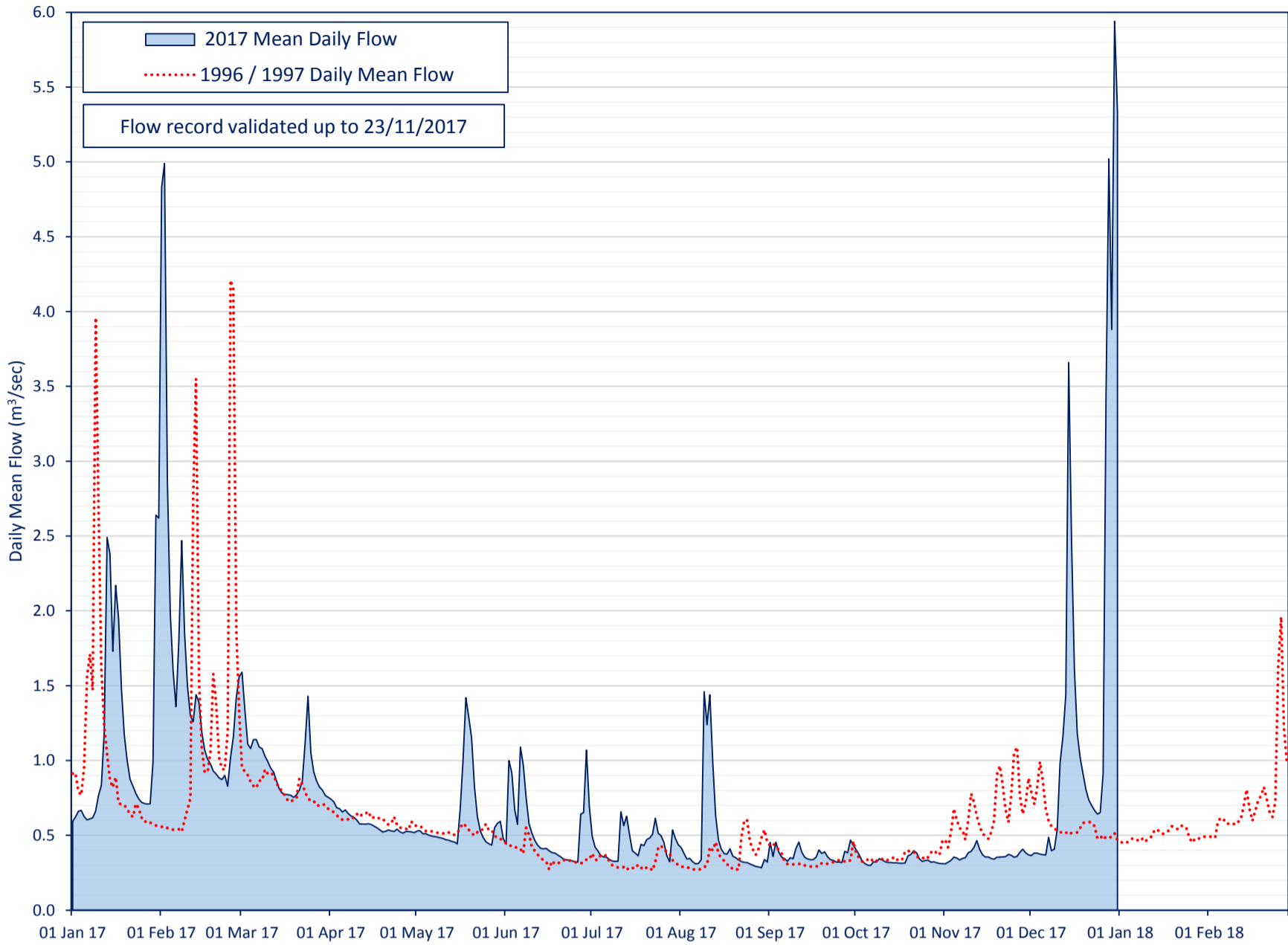
River Can at Beaches Mill (12 Month Hydrograph)



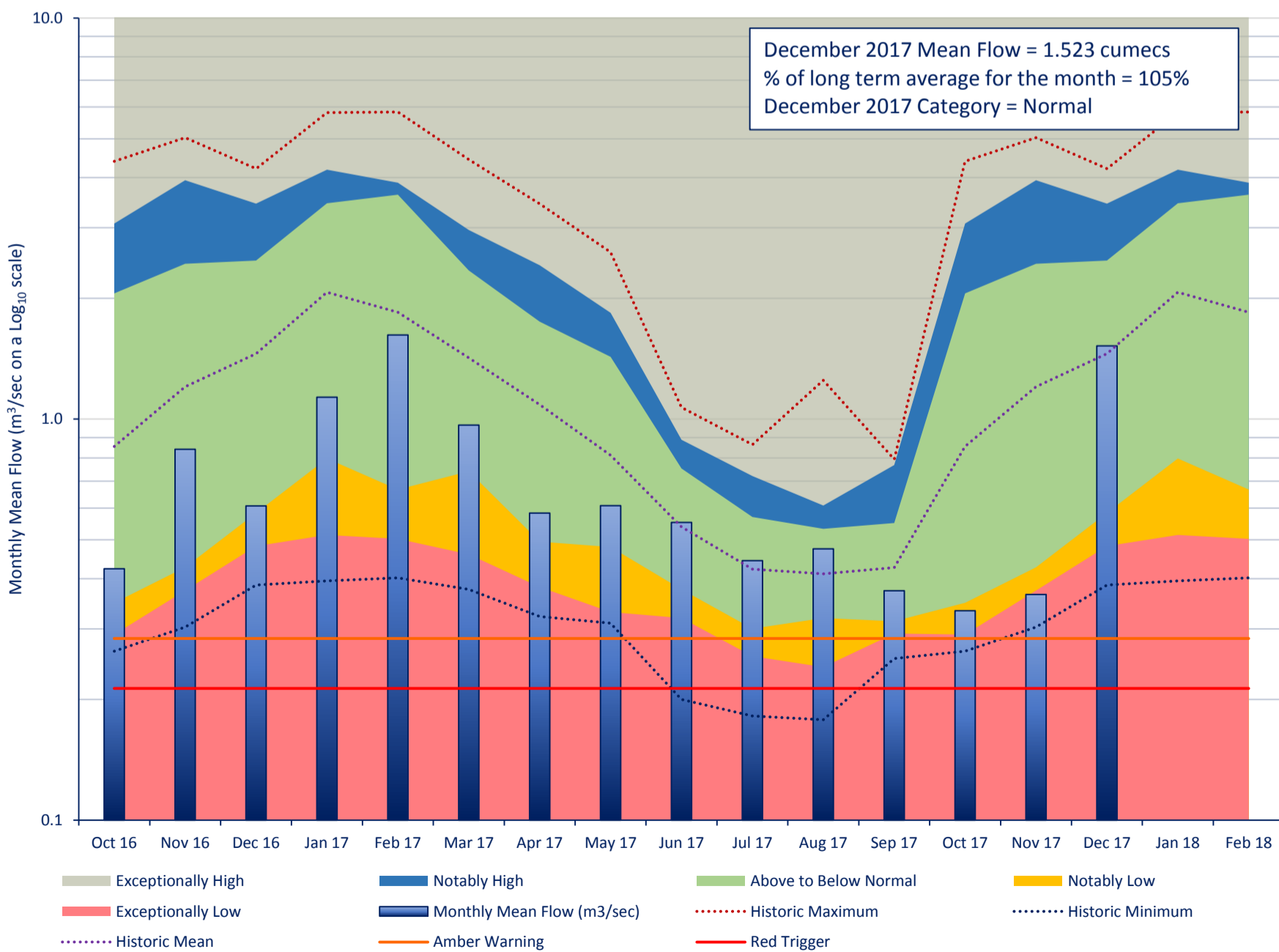
River Can at Beaches Mill Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



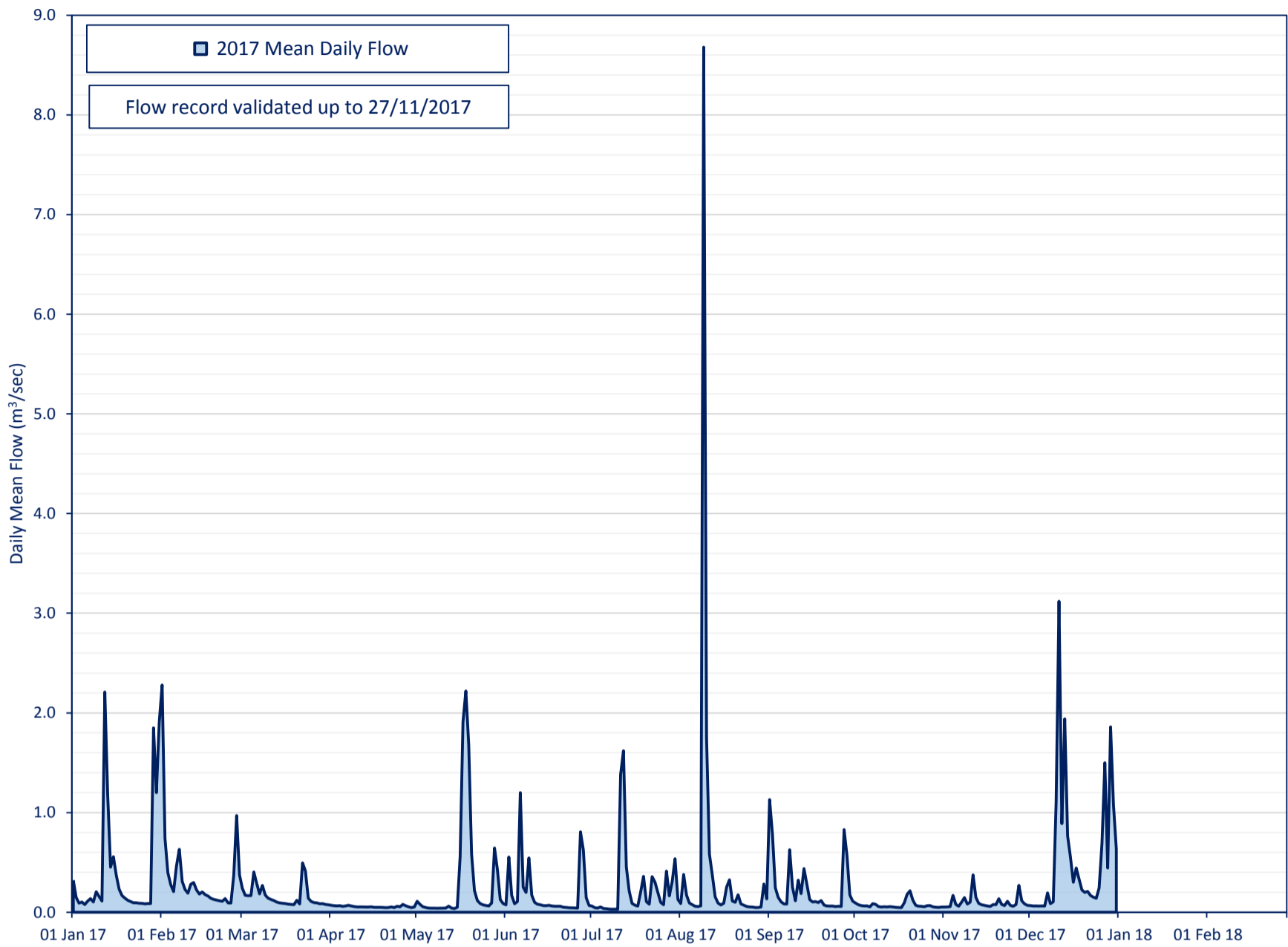
River Chelmer at Springfield (12 Month Hydrograph)



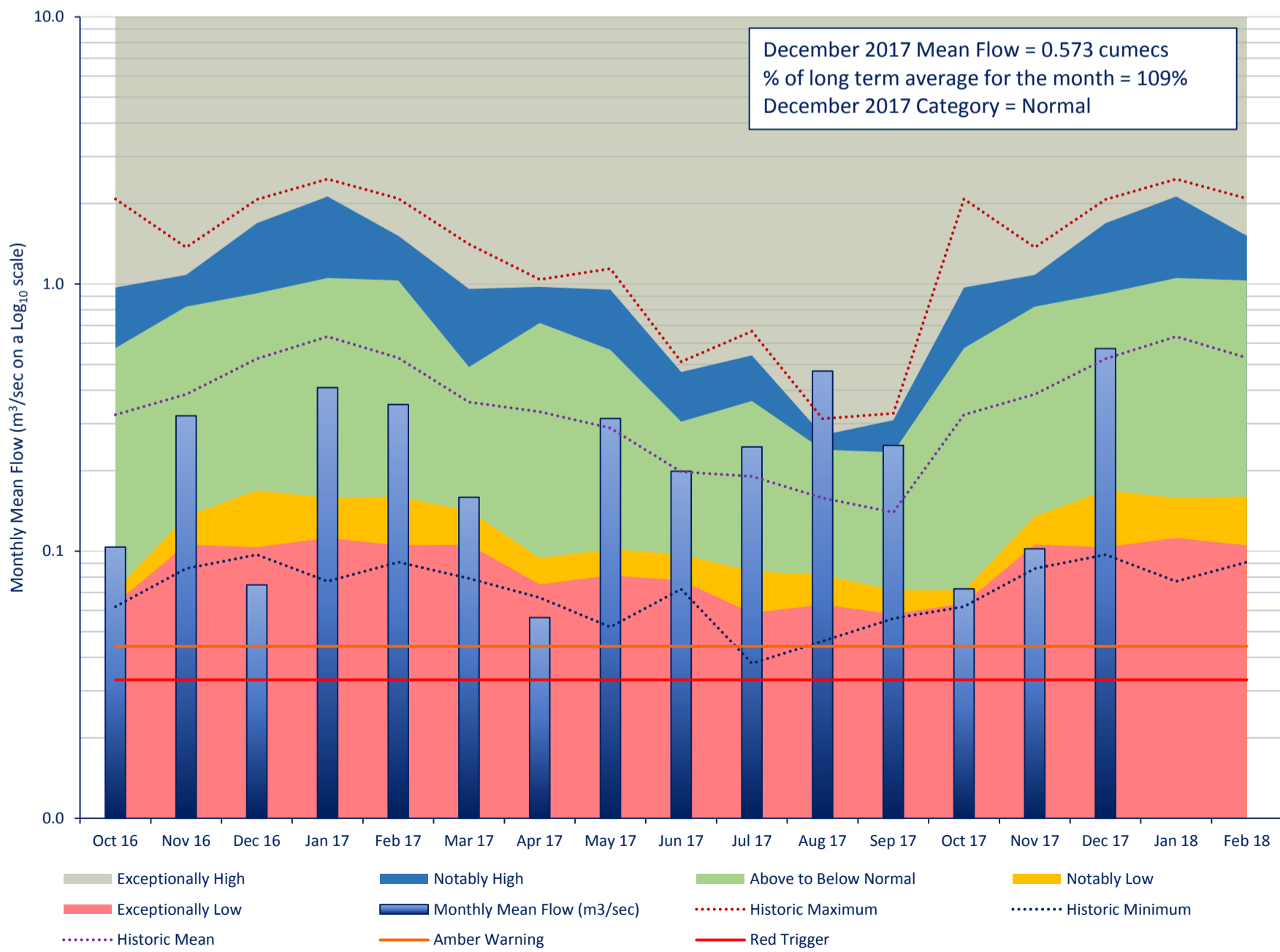
River Chelmer at Springfield Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



River Crouch at Wickford (12 Month Hydrograph)



River Crouch at Wickford Flow Categorisation 1970-2012 (Featured Years - 2016 & 2017)



County Rainfall Graphs

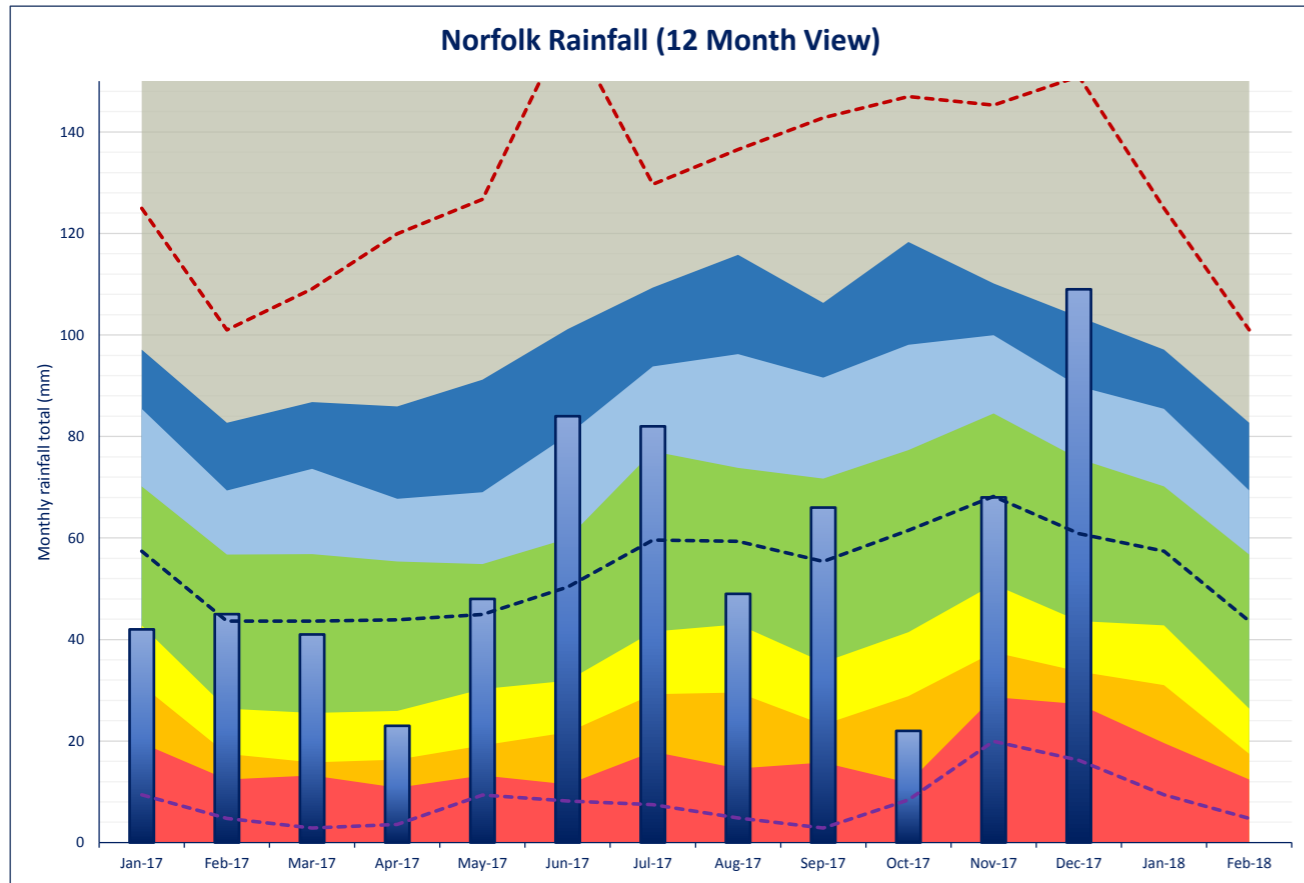
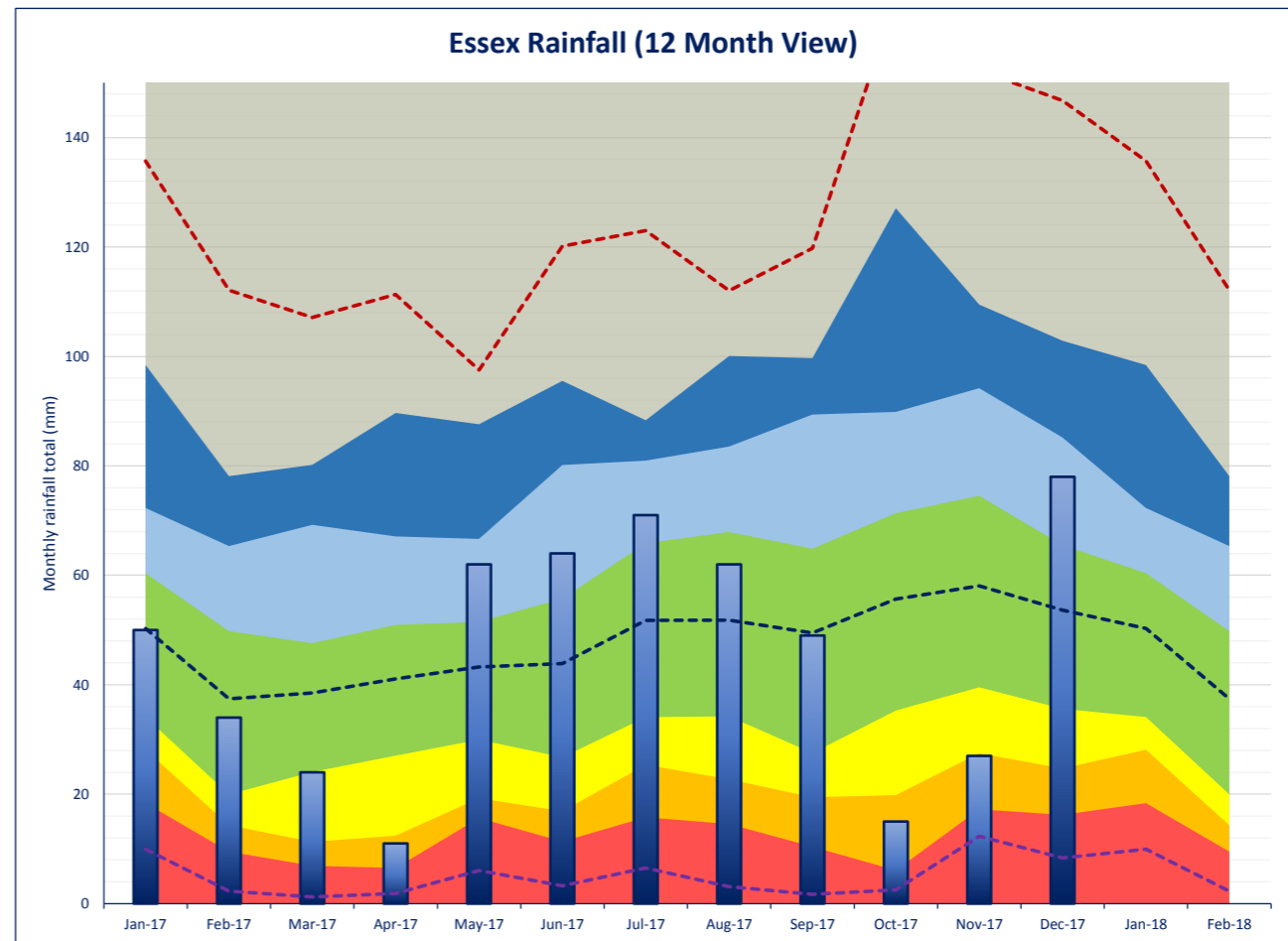
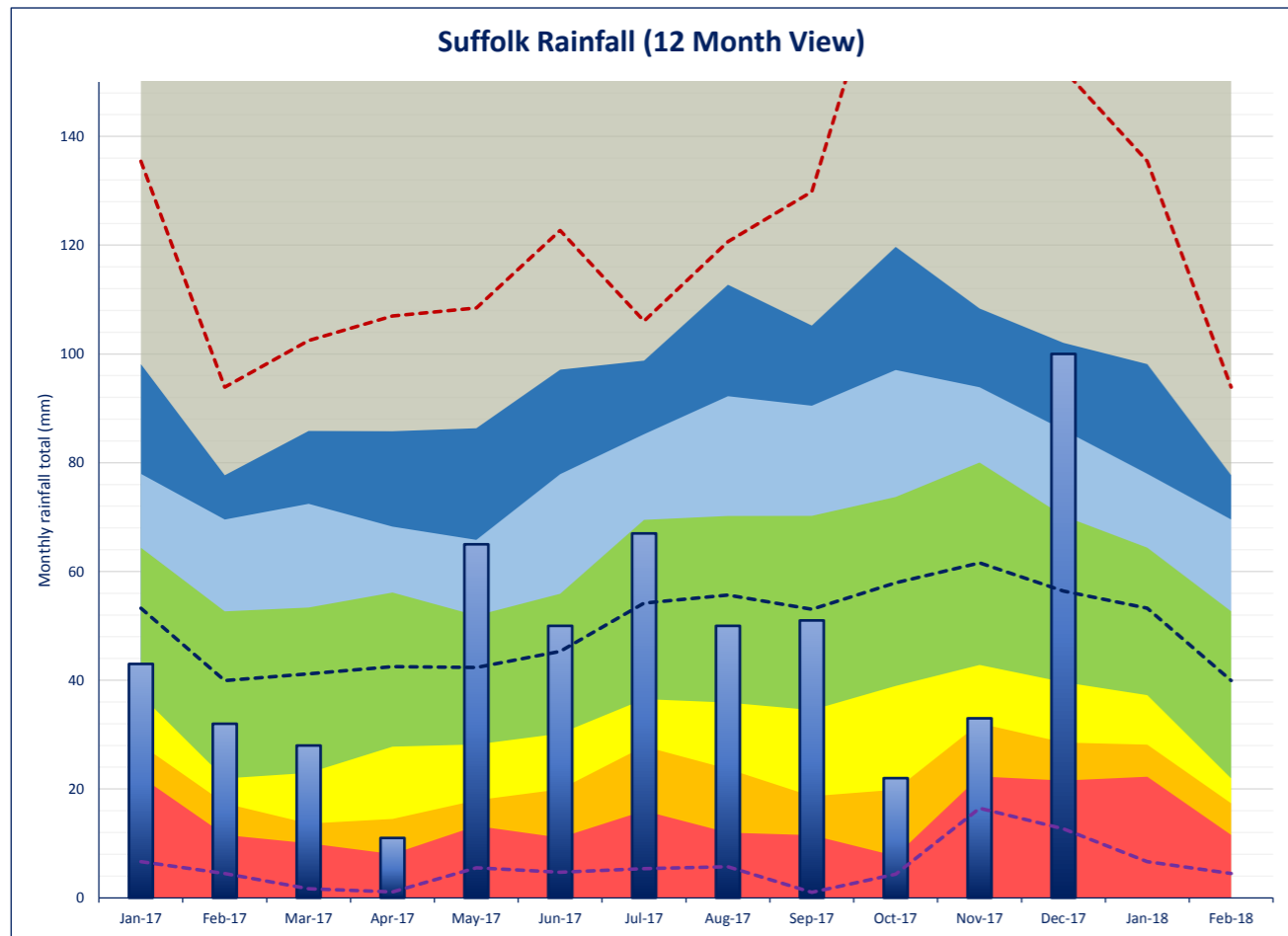


Chart Legend:

- Exceptionally High
- Notably High
- Above Normal
- Normal
- Below Normal
- Notably Low
- Exceptionally Low
- Monthly Total (mm)
- Average
- Max
- Min

	Norfolk	Suffolk	Essex
Current Month			
December 2017 Rainfall	109mm	100mm	78mm
% of Long Term Average	179%	177%	145%
Category	Exceptionally High	Notably High	Above Normal
3 Month Summary			
October 2017 to December 2017			
3 month total	199mm	155mm	120mm
% of Long Term Average	104%	88%	72%
6 Month Summary			
July 2017 to December 2017			
6 month total	396mm	323mm	302mm
% of Long Term Average	109%	95%	94%
12 Month Summary			
January 2017 to December 2017			
12 month total	679mm	552mm	547mm
% of Long Term Average	105%	91%	95%



Deviation from Monthly Average Rainfall

- Chart Legend:**
- Serious Drought
 - Drought
 - Developing Drought
 - Normal
 - Deviation from average rainfall (mm)
 - Deviation from average rainfall exc. May to Sept (mm)

Summary for December 2017:

	Norfolk	Suffolk	Essex
Current rainfall deficit or surplus	-8mm	-116mm	-99mm
Drought status	Normal	Normal	Normal
Current rainfall deficit or surplus (exc. May to September)	-68mm	-148mm	-166mm
Drought status (exc. May to September)	Normal	Developing Drought	Developing Drought

Rainfall deficit or surplus values apply to a common start date of September 2016. Indicative drought triggers are based on observed cumulative rainfall in the run up to historic drought events.

