

Environmental Protection Report

River Taw Catchment River Water Quality Classification 1991

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NRA

National Rivers Authority

South West Region

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ENVIRONMENT AGENCY



110046

RIVER WATER QUALITY IN THE RIVER TAW CATCHMENT

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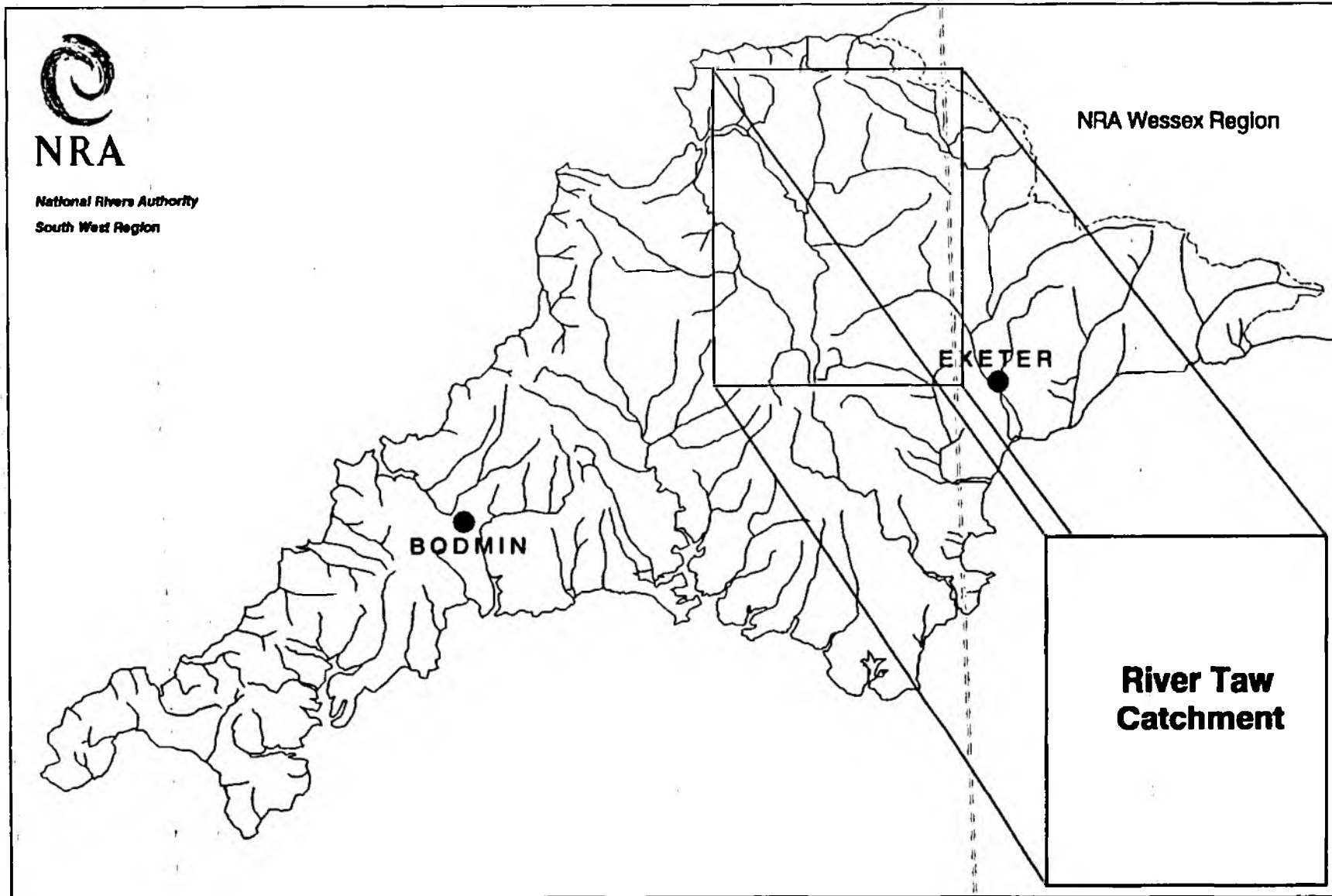
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**National Rivers Authority
South West Region**



NRA

*National Rivers Authority
South West Region*



River Taw Catchment

**River Taw
Catchment**

1. INTRODUCTION

Monitoring to assess the quality of river waters is undertaken in thirty-four catchments within the region. As part of this monitoring programme samples are collected routinely from selected monitoring points at a pre-determined frequency per year, usually twelve spaced at monthly intervals. Each monitoring point provides data for the water quality of a river reach (in kilometres) upstream of the monitoring point.

Each water sample collected from each monitoring point is analysed for a range of chemical and physical constituents or properties known as determinands. The analytical results for each sample are entered into a computer database called the Water Quality Archive.

Selected data are accessed from the Archive so that the quality of each river reach can be determined based on a River Classification System developed by the National Water Council (NWC), (7.1).

This report presents the river water quality classification for 1991 for monitored river reaches in the River Taw catchment.

2. RIVER TAW CATCHMENT

The River Taw flows over a distance of 71.9 km from its source to the tidal limit in the Taw Estuary, (Appendix 8.1). Water quality was monitored at thirteen locations on the main river; twelve sites were sampled at approximately monthly intervals. The site at Chappleton Footbridge, which is a National Water Quality monitoring point, was sampled fortnightly.

The River Yeo (Barnstaple) flows over a distance of 17.7 km from its source to the tidal limits, (Appendix 8.1) and was monitored at two locations. One site at approximately monthly intervals and the other, a National Water Quality monitoring point, was sampled fortnightly.

The River Caen and Knowle Water flow over a distance of 11.9 km and 9.4 km respectively from their source to the tidal limit, (Appendix 8.1) and were both monitored at one location.

Throughout the Taw catchment ten secondary tributaries of the River Taw were monitored at approximately monthly intervals. Wistlandpound reservoir was also sampled at approximately monthly intervals.

Nine tertiary tributaries of the River Taw were monitored at approximately monthly intervals.

Three quaternary tributaries were monitored at monthly intervals.

The Wollacombe flows over a distance of 3 km from its source to the tidal limit, (Appendix 8.1) and was monitored at one location in the lower reaches.

The Croyde Stream flows over a distance of 4.4 km from its source to the tidal limit, (Appendix 8.1) and was monitored at three sites.

2.1 SECONDARY TRIBUTARIES

The River Mole flows over a distance of 34.1 km from its source to the confluence with the River Taw, (Appendix 8.1) and was monitored at six locations.

The River Yeo (Lapford) flows over a distance of 22.4 km from its source to the confluence with the River Taw, (Appendix 8.1) and was monitored at four locations.

The Little Dart River and Rye Stream flow over a distance of 26.6 km and 10.1 km before joining the Rivers Taw and Yeo (Barnstaple) respectively, (Appendix 8.1) and were both monitored at three locations.

The Hollocombe Water (8.7 km), River Venn (13.2 km) and Langham Lake (12.8 km) were all monitored at two locations between their source and confluence with the River Taw (Appendix 8.1).

Bradiford Water (15 km), Spireslake (1.7 km) Hawkridge Bridge Brook (8.2 km) and Mully Brook (8.5 km) were all monitored at one location between their source and confluence with the River Taw situated in the lower reaches, (Appendix 8.1).

2.2 TERTIARY STREAMS

The River Bray flows over a distance of 26.5 km from its source to the confluence with the River Mole, (Appendix 8.1) and was monitored at six locations.

The River Dalch flows over a distance of 17.8 km from its source to confluence with the River Yeo (Lapford) (Appendix 8.1) and was monitored at three locations.

The River Yeo (Molland) flows over a distance of 18.5 km from its source to the confluence with the River Mole (Appendix 8.1) and was monitored at three locations.

The Little Silver Stream (11.4 km) and the Crooked Oak Stream (16.1 km) were both monitored at two locations between their source and confluence with the River Mole, (Appendix 8.1).

The North Radworthy Stream (3.2 km), Huntacott Stream (10.4 km), Sturcombe Stream (8.5 km) and Ash Brook (8.0 km) were all monitored at one location situated in the lower reaches, (Appendix 8.1).

2.3 QUATERNARY TRIBUTARIES

The Nadrid Water (7.8 km), Holewater Stream (8.5 km) and Sheepwash Stream (7.1 km) were all monitored at one location situated in the lower reaches, (Appendix 8.1).

Each sample was analysed for a minimum number of determinands (Appendix 8.2) plus additional determinands based on local knowledge of the catchment. In addition, at selected sites, certain metal analyses were carried out.

The analytical results from all of these samples have been entered into the Water Quality Archive and can be accessed through the Water Resources Act Register, (7.2).

3. NATIONAL WATER COUNCIL'S RIVER CLASSIFICATION SYSTEM

3.1 River Quality Objectives

In 1978 River Quality Objectives (RQOs) were assigned to all river lengths that were part of the routine monitoring network and to those additional watercourses, which were not part of the routine network, but which received discharges of effluents.

For the majority of watercourses long term objectives were identified based on existing and assumed adequate quality for the long term protection of the watercourse. In a few instances short term objectives were identified but no timetable for the achievement of the associated long term objective was set.

The RQOs currently in use in the River Taw catchment are identified in Appendix 8.1.

3.2 River Quality Classification

River water quality is classified using the National Water Council's (NWC) River Classification System (see Appendix 8.3), which identifies river water quality as being one of five quality classes as shown in Table 1 below:

Table 1 - National Water Council - River Classification System

<u>Class</u>	<u>Description</u>
1A	Good quality
1B	Lesser good quality
2	Fair quality
3	Poor quality
4	Bad quality

Using the NWC system, the classification of river water quality is based on the values of certain determinands as arithmetic means or as 95 percentiles (5 percentiles are used for pH and dissolved oxygen) as indicated in Appendices 8.4 and 8.4.1.

The quality classification system incorporates some of the European Inland Fisheries Advisory Commission (EIFAC) criteria (Appendix 8.3) recommended for use by the NWC system.

4. 1991 RIVER WATER QUALITY CLASSIFICATION

Analytical data collected from monitoring during 1989, 1990 and 1991 were processed through a computerised river water quality classification programme. This resulted in a quality class being assigned to each monitored river reach as indicated in Appendix 8.5.

The quality class for 1991 can be compared against the appropriate River Quality Objective and previous annual quality classes (1985-1990) also based on three years combined data, for each river reach in Appendix 8.5.

The river water classification system used to classify each river length is identical to the system used both in 1985 and 1990 for the Department of the Environment's Quinquennial River Quality Surveys. The determinand classification criteria used to determine the annual quality classes in 1985, subsequent years and for 1991 are indicated in Appendices 8.4 and 8.4.1.

The river quality classes for 1991 of monitored river reaches in the catchment are shown in map form in Appendix 8.6.

The calculated determinand statistics for pH, temperature, dissolved oxygen, biochemical oxygen demand (BOD), total ammonia, un-ionised ammonia, suspended solids, copper and zinc from which the quality class was determined for each river reach, are indicated in Appendix 8.7.

5. NON-COMPLIANCE WITH QUALITY OBJECTIVES

Those monitored river reaches within the catchment, which do not comply with their assigned (RQO), are shown in map form in Appendix 8.8.

Appendix 8.9 indicates the number of samples analysed for each determinand over the period 1989 to 1991 and the number of sample results per determinand, which exceed the determinand quality standard.

For those non-compliant river reaches in the catchment, the extent of exceedance of the calculated determinand statistic with the relevant quality standard (represented as a percentage), is indicated in Appendix 8.10.

6. GLOSSARY OF TERMS

RIVER REACH	A segment of water, upstream from sampling point to the next sampling point.
RIVER LENGTH	River distance in kilometres.
RIVER QUALITY OBJECTIVE	That NWC class, which protects the most sensitive use of the water.
95 percentiles	Maximum limits, which must be met for at least 95% of the time.
5 percentiles	Minimum limits, which must be met for at least 95% of the time.
BIOLOGICAL OXYGEN DEMAND (5-day carbonaceous ATU)	A standard test measuring the microbial uptake of oxygen - an estimate of organic pollution.
pH	A scale of acid to alkali.
UN-IONISED AMMONIA	Fraction of ammonia poisonous to fish, NH^3 .
SUSPENDED SOLIDS	Solids removed by filtration or centrifuge under specific conditions.
USER REFERENCE NUMBER	Reference number allocated to a sampling point.
INFERRED STRETCH	Segment of water, which is not monitored and whose water quality classification is assigned from the monitored reach upstream.

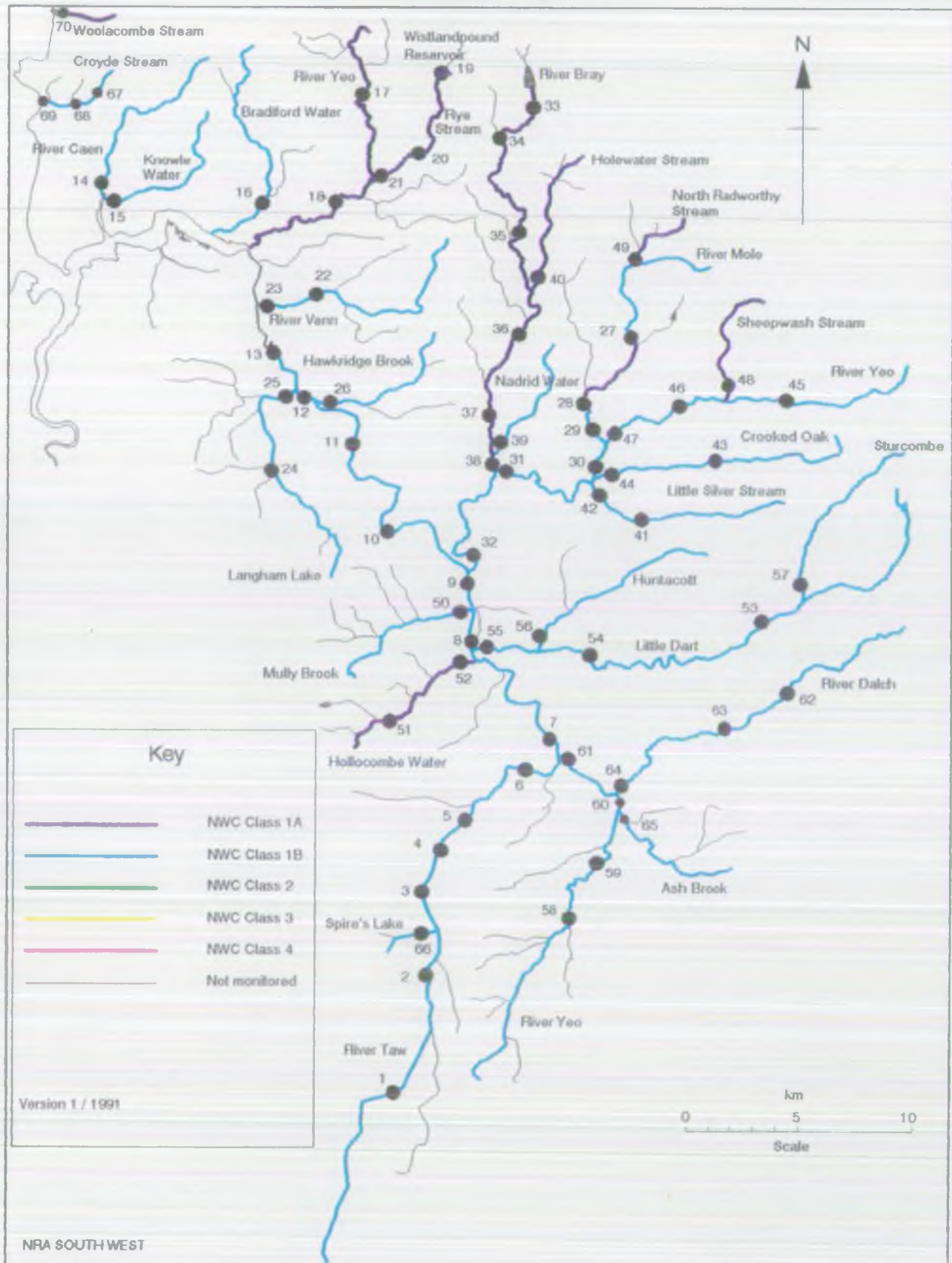
7. REFERENCES

Reference

- 7.1 National Water Council (1977). River Water Quality: The Next Stage. Review of Discharge Consent Conditions. London.
- 7.2 Water Resources Act 1991 Section 190.
- 7.3 Alabaster J. S. and Lloyd R. Water Quality Criteria for Freshwater Fish, 2nd edition, 1982. Butterworths.

Taw Catchment River Quality Objectives

Appendix 8.1



BASIC DETERMINAND ANALYTICAL SUITE FOR ALL CLASSIFIED RIVER SITES

pH as pH Units

Conductivity at 20 C as uS/cm

Water temperature (Cel)

Oxygen dissolved % saturation

Oxygen dissolved as mg/l O

Biochemical oxygen demand (5 day total ATU) as mg/l O

Total organic carbon as mg/l C

Nitrogen ammoniacal as mg/l N

Ammonia un-ionised as mg/l N

Nitrate as mg/l N

Nitrite as mg/l N

Suspended solids at 105 C as mg/l

Total hardness as mg/l CaCO₃

Chloride as mg/l Cl

Orthophosphate (total) as mg/l P

Silicate reactive dissolved as mg/l SiO₂

Sulphate (dissolved) as mg/l SO₄

Sodium (total) as mg/l Na

Potassium (total) as mg/l K

Magnesium (total) as mg/l Mg

Calcium (total) as mg/l Ca

Alkalinity as pH 4.5 as mg/l CaCO₃

MNC RIVER QUALITY CLASSIFICATION SYSTEM

Water Class	Quality criteria	Remarks	Current potential uses
Class limiting criteria (95 percentile)			
1A Good Quality	(i) Dissolved oxygen saturation greater than 80% (ii) Biochemical oxygen demand not greater than 3 mg/l (iii) Ammonia not greater than 0.4 mg/l (iv) Where the water is abstracted for drinking water, it complies with requirements for A2* water (v) Non-toxic to fish in EIFAC terms (or best estimates if EIFAC figures not available)	(i) Average BOD probably not greater than 1.5 mg/l (ii) Visible evidence of pollution should be absent	(i) Water of high quality suitable for potable supply abstractions and for all abstractions (ii) Game or other high class fisheries (iii) High amenity value
1B Good Quality	(i) DO greater than 50% saturation (ii) BOD not greater than 5 mg/l (iii) Ammonia not greater than 0.9 mg/l (iv) Where water is abstracted for drinking water, it complies with the requirements for A2* water (v) Non-toxic to fish in EIFAC terms (or best estimates if EIFAC figures not available)	(i) Average BOD probably not greater than 2 mg/l (ii) Average ammonia probably not greater than 0.5 mg/l (iii) Visible evidence of pollution should be absent (iv) Waters of high quality which cannot be placed in Class 1A because of the high proportion of high quality effluent present or because of the effect of physical factors such as canalisation, low gradient or eutrophication (v) Class 1A and Class 1B together are essentially the Class 1 of the River Pollution Survey (RPS)	Water of less high quality than Class 1A but usable for substantially the same purposes
Fair Quality	(i) DO greater than 40% saturation (ii) BOD not greater than 9 mg/l (iii) Where water is abstracted for drinking water it complies with the requirements for A3* water (iv) Non-toxic to fish in EIFAC terms (or best estimates if EIFAC figures not available)	(i) Average BOD probably not greater than 5 mg/l (ii) Similar to Class 2 of RPS (iii) Water not showing physical signs of pollution other than hunc colouration and a little foaming below weirs	(i) Waters suitable for potable supply after advanced treatment (ii) Supporting reasonably good coarse fisheries (iii) Moderate amenity value

3 Poor Quality	(i) DO greater than 10% saturation (ii) Not likely to be anaerobic (iii) BOD not greater than 17 mg/l. This may not apply if there is a high degree of re-aeration	Similar to Class 3 of RPS	Waters which are polluted to an extent that fish are absent only sporadically present. May be used for low grade industrial abstraction purposes. Considerable potential for further use if cleaned up
4 Bad Quality	Waters which are inferior to Class 3 in terms of dissolved oxygen and likely to be anaerobic at times	Similar to Class 4 of RPS	Waters which are grossly polluted and are likely to cause nuisance
X	DO greater than 10% saturation		Insignificant watercourses and ditches not usable, where the objective is simply to prevent nuisance developing

- Notes
- (a) Under extreme weather conditions (eg flood, drought, freeze-up), or when dominated by plant growth, or by aquatic plant decay, rivers usually in Class 1, 2, and 3 may have BODs and dissolved oxygen levels, or ammonia content outside the stated levels for those Classes. When this occurs the cause should be stated along with analytical results.
 - (b) The BOD determinations refer to 5 day carbonaceous BOD (ATU). Ammonia figures are expressed as NH_4 . **
 - (c) In most instances the chemical classification given above will be suitable. However, the basis of the classification is restricted to a finite number of chemical determinands and there may be a few cases where the presence of a chemical substance other than those used in the classification markedly reduces the quality of the water. In such cases, the quality classification of the water should be down-graded on the basis of biota actually present, and the reasons stated.
 - (d) EIFAC (European Inland Fisheries Advisory Commission) limits should be expressed as 95 percentile limits.

* EEC category A2 and A3 requirements are those specified in the EEC Council directive of 16 June 1975 concerning the Quality of Surface Water intended for Abstraction of Drinking Water in the Member State.

** Ammonia Conversion Factors

(mg NH_4 /l to mg N/l)

Class 1A	0.4 mg NH_4 /l = 0.31 mg N/l
Class 1B	0.9 mg NH_4 /l = 0.70 mg N/l
	0.5 mg NH_4 /l = 0.39 mg N/l

NWC RIVER CLASSIFICATION SYSTEM

CRITERIA USED BY NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION FOR NON-METALLIC DETERMINANDS

River Class	Quality Criteria
1A	Dissolved oxygen % saturation greater than 80% BOD (ATU) not greater than 3 mg/l O Total ammonia not greater than 0.31 mg/l N Non-ionised ammonia not greater than 0.021 mg/l N Temperature not greater than 21.5 C pH greater than 5.0 and less than 9.0 Suspended solids not greater than 25 mg/l
1B	Dissolved oxygen % saturation greater than 60% BOD (ATU) not greater than 5 mg/l O Total ammonia not greater than 0.70 mg/l N Non-ionised ammonia not greater than 0.021 mg/l N Temperature not greater than 21.5 C pH greater than 5.0 and less than 9.0 Suspended solids not greater than 25 mg/l
2	Dissolved oxygen & saturation greater than 40% BOD (ATU) not greater than 9 mg/l O Total ammonia not greater than 1.56 mg/l N Non-ionised ammonia not greater than 0.021 mg/l N Temperature not greater than 28 C pH greater than 5.0 and less than 9.0 Suspended solids not greater than 25 mg/l
3	Dissolved oxygen % saturation greater than 10% BOD (ATU) not greater than 17 mg/l O
4	Dissolved oxygen % saturation not greater than 10% BOD (ATU) greater than 17 mg/l O

STATISTICS USED BY NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION

Determinand	Statistic
Dissolved oxygen	5 percentile
BOD (ATU)	95 percentile
Total ammonia	95 percentile
Non-ionised ammonia	95 percentile
Temperature	95 percentile
pH	5 percentile
Suspended solids	95 percentile arithmetic mean

NWC RIVER CLASSIFICATION SYSTEM

CRITERIA USED BY NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION FOR METALLIC DETERMINANDS

SOLUBLE COPPER

Total Hardness (mean) mg/l CaCO ₃	Statistic	Soluble Copper*	
		ug/l Cu Class 1	Class 2
0 - 10	95 percentile	< = 5	> 5
10 - 50	95 percentile	< = 22	> 22
50 - 100	95 percentile	< = 40	> 40
100 - 300	95 percentile	< = 112	> 112

* Total copper is used for classification until sufficient data on soluble copper can be obtained.

TOTAL ZINC

Total Hardness (mean) mg/l CaCO ₃	Statistic	Total Zinc ug/l Zn		
		Class 1	Class 2	Class 3
0 - 10	95 percentile	< = 30	< = 300	> 300
10 - 50	95 percentile	< = 200	< = 700	> 700
50 - 100	95 percentile	< = 300	< = 1000	> 1000
100 - 300	95 percentile	< = 500	< = 2000	> 2000

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION
1991 RIVER WATER QUALITY CLASSIFICATION
CATCHMENT: TAW

1991 Map Position Number	River	Reach upstream of	User Reference Number	National Grid Reference	Reach Length (km)	Distance from source (km)	River Quality Objective	85 RWC Class	86 RWC Class	87 RWC Class	88 RWC Class	89 RWC Class	90 RWC Class	91 RWC Class
1	TAW	A.30 BRIDGE AT STICKLEPATH	R30C001	SX 6436 9402	11.4	11.4	1B	1B	1A	2	2	2	3	1A
2	TAW	ROWDEN MOOR	R30C002	SX 6549 9947	6.7	18.1	1B	1A	1A	1A	1A	1A	1A	1A
3	TAW	YEO FARM	R30C003	SS 6513 0286	4.5	22.6	1B	1B	1B	1A	1A	1B	1A	1B
4	TAW	BONDLEIGH	R30C004	SS 6578 0453	2.3	24.9	1B	1A	1B	1B	1B	1B	2	2
5	TAW	TAW BRIDGE	R30C005	SS 6729 0659	3.2	28.1	1B	1B	1B	1A	1A	1A	1B	1A
6	TAW	HIGHER PARK	R30C006	SS 6968 0861	4.6	32.7	1B	1B	1B	1A	1A	1A	1A	1A
7	TAW	CHENSON	R30B001	SS 7021 0952	3.3	36.0	1B	2	1B	1B	1B	1B	1B	1B
8	TAW	KERSHAM BRIDGE	R30B002	SS 6620 1356	8.4	44.4	1B	2	2	1B	1B	1B	1B	2
9	TAW	NEWMHAM BRIDGE	R30B003	SS 6603 1732	5.7	50.1	1B	1B	1B	2	2	1B	1B	2
10	TAW	KINGFORD	R30B004	SS 6239 1925	5.6	55.7	1B	1B	1B	2	1B	2	2	2
11	TAW	UMBERLEIGH	R30B015	SS 6078 2372	7.1	62.8	1B	1B	1B	1B	2	2	1B	1B
12	TAW	CHAPELTON FOOTBRIDGE	R30B014	SS 5822 2610	4.3	67.1	1B	1B	1B	1B	2	2	1B	1B
13	TAW	NEW BRIDGE	R30B005	SS 5699 2828	3.0	70.1	1B	1B	1B	2	2	2	1B	1B
	TAW	NORMAL TIDAL LIMIT (INFERRED STRETCH)			1.8	71.9	1B	1B	1B	2	2	2	1B	1B
14	CAEN	VELATOR BRIDGE	R30A002	SS 4855 3572	11.9	11.9	1B	1B	1A	2	2	2	2	2
15	KNOWL WATER KNOWL WATER	OLD RAILWAY BRIDGE, VELATOR NORMAL TIDAL LIMIT (INFERRED STRETCH)	R30A006	SS 4878 3567	9.3 0.1	9.3 9.4	1B 1B	3 3	3 3	3 3	2 2	1B 1B	1B 1B	1B 1B
16	BRADIFORD WATER BRADIFORD WATER	BLAKEWELL NORMAL TIDAL LIMIT (INFERRED STRETCH)	R30A001	SS 5663 3583	10.3 4.7	10.3 15.0	1B 1B	1A 1A	1A 1A	1B 1B	1B 1B	1B 1B	1B 1B	2 2
17	YEO(BARNSTAPLE)	BROCKHAM BRIDGE	R30H001	SS 6034 4083	4.5	4.5	1A	1A	1B	1B	1B	1B	1B	1A
18	YEO(BARNSTAPLE) YEO(BARNSTAPLE)	COLLARD BRIDGE NORMAL TIDAL LIMIT (INFERRED STRETCH)	R30H006	SS 5956 3569	8.0 5.2	12.5 17.7	1A 1A	1B 1B	1B 1B	1A 1A	1B 1B	1B 1B	1B 1B	1A 1A
19	RYE STREAM	INFLOW, WISTLANPOND RES. (UNMON. STRETCH)	R30H008	SS 6432 4134	1.5 0.9	1.5 2.4	1A 1A	1A 1A	1A 1A	1A 1A	1A 1A	1A 1A	U 1A	U 2
20	RYE STREAM	WISTLANPOND RESERVOIR	R30H009	SS 6318 3774	5.0	7.4	1A	1A	1A	1A	1A	1A	1B	1A
21	RYE STREAM RYE STREAM	BRATTON FLEMMING LOXHORE CROSS YEO(BARNSTAPLE) CONFL. (INF. STRETCH)	R30H004	SS 6116 3658	2.5 0.2	9.9 10.1	1A 1A	1A 1A	1A 1A	1A 1A	1A 1A	1A 1A	1A 1A	1A 1A
22	VENN	LANDKEY	R30A003	SS 5908 3102	10.1	10.1	1B	1B	1B	2	3	2	3	3
23	VENN VENN	BISHOPS TAMTON NORMAL LIMIT LIMIT (INFERRED STRETCH)	R30A004	SS 5679 3031	2.8 0.3	12.9 13.2	1B 1B	1B 1B	1B 1B	2 2	3 3	2 2	3 3	3 3
24	LANGHAM LAKE	LANGRIDGEFORD	R30B016	SS 5715 2237	6.7	6.7	1B	1B	1B	3	3	3	2	2
25	LANGHAM LAKE LANGHAM LAKE	LANGHAM BRIDGE TAW CONFLUENCE (INFERRED STRETCH)	R30B006	SS 5796 2610	5.7 0.4	12.4 12.8	1B 1B	1B 1B	1B 1B	3 3	3 3	3 3	1B 1B	2 2
26	HAWKRIDGE BROOK HAWKRIDGE BROOK	HAWKRIDGE BRIDGE TAW CONFLUENCE (INFERRED STRETCH)	R30B012	SS 5947 2534	7.8 0.4	7.8 8.2	1B 1B	1B 1B	1B 1B	4 4	4 4	4 4	2 2	2 2
27	MOLE	NORTH MOLTON	R30P001	SS 7435 2984	8.5	8.5	1B	1A	1B	1B	2	2	2	1B

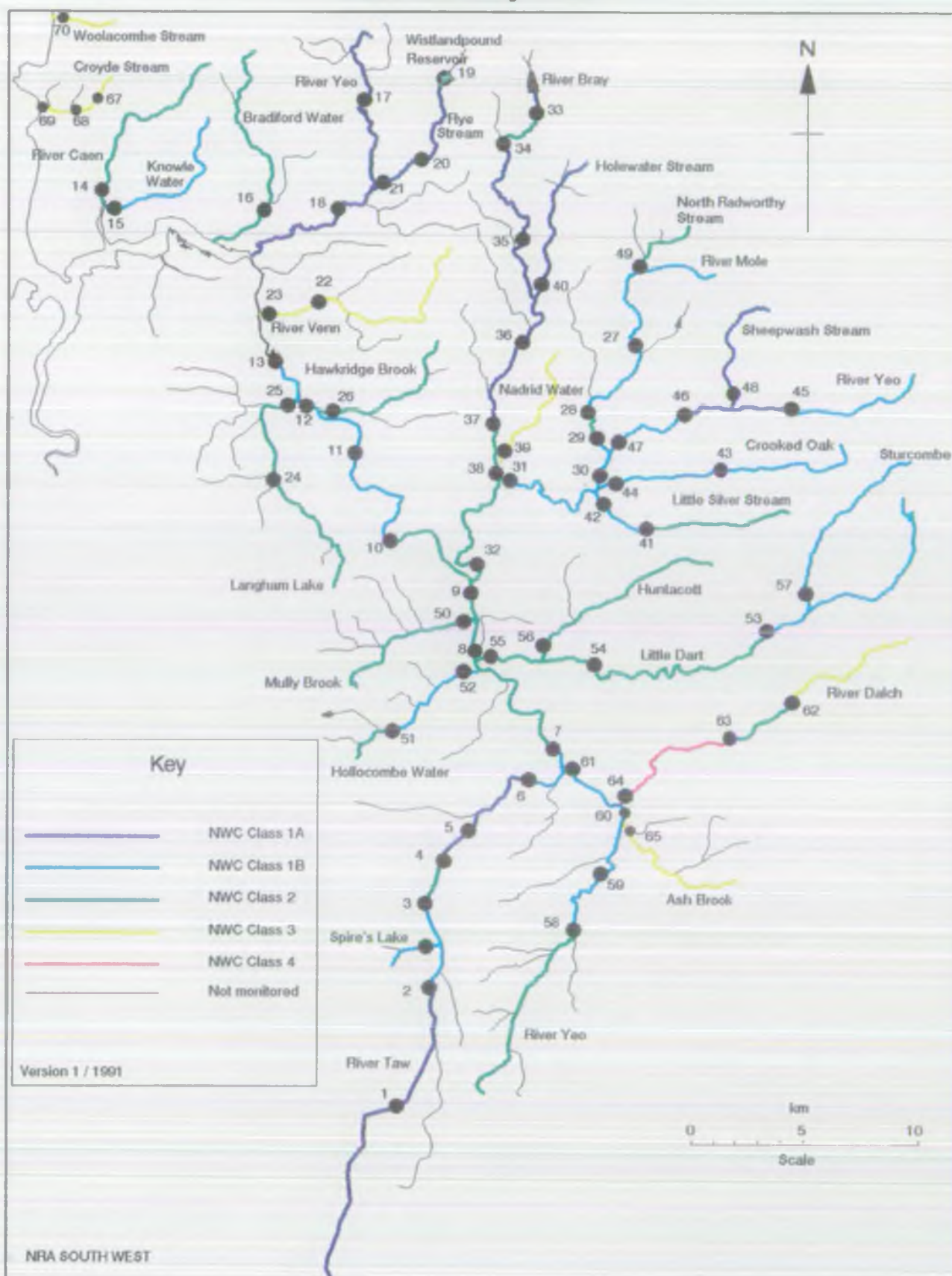
NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION
 1991 RIVER WATER QUALITY CLASSIFICATION
 CATCHMENT: TAW

1991 Map Position Number	River	Reach upstream of	User Reference Number	National Grid Reference
28	MOLE	PARKHOUSE	R30F002	SS 7206 2649
29	MOLE	PRIOR TO RIVER YEO	R30F003	SS 7310 2432
30	MOLE	NEW BRIDGE	R30F004	SS 7248 2257
31	MOLE	MOLE BRIDGE	R30F005	SS 6767 2295
32	MOLE	HEAD BARTON	R30F006	SS 6674 1827
	MOLE	TAW CONFLUENCE (INFERRED STRETCH)		
	BRAY	OUTFLOW, CHALLACOMBE RES. (UNMON. STRETCH)		
33	BRAY	CHALLACOMBE	R30G001	SS 6929 4105
34	BRAY	LEEAM FORD	R30G011	SS 6776 3994
35	BRAY	BRAYFORD	R30G002	SS 6879 3473
36	BRAY	BRAYLEY BRIDGE	R30G003	SS 6907 3033
37	BRAY	BRAY BRIDGE	R30G012	SS 6754 2567
38	BRAY	MEETHE BARTON	R30G004	SS 6755 2299
	BRAY	MOLE CONFLUENCE (INFERRED STRETCH)		
39	NADRID WATER	CLAPWORTHY	R30G013	SS 6761 2406
	NADRID WATER	BRAY CONFLUENCE (INFERRED STRETCH)		
40	HOLEWATER (MOLLAND)	LINKLEYHAM BRIDGE	R30G005	SS 696 325
	HOLEWATER (MOLLAND)	BRAY CONFLUENCE (INFERRED STRETCH)		
41	LITTLE SILVER STREAM	ODAM BRIDGE	R30F010	SS 7421 2060
42	LITTLE SILVER STREAM	ALSWEAR	R30F011	SS 7236 2208
	LITTLE SILVER STREAM	MOLE CONFLUENCE (INFERRED STRETCH)		
43	CROOKED OAK	ASHMILL	R30F023	SS 7836 2338
44	CROOKED OAK	A.373 BRIDGE AT ALSWEAR	R30F007	SS 7247 2228
	CROOKED OAK	MOLE CONFLUENCE (INFERRED STRETCH)		
45	YEO (MOLLAND)	BOTTREAUX MILL	R30F008	SS 8211 2638
46	YEO (MOLLAND)	VERABY	R30F024	SS 7664 2632
47	YEO (MOLLAND)	GRILSTONE	R30F009	SS 7316 2435
48	SHEEPWASH STREAM	YEO FARM	R30F022	SS 7902 2663
	SHEEPWASH STREAM	YEO (MOLLAND) CONFL. (INFERRED STRETCH)		
49	NORTH RADWORTHY STREAM	BARHAM BRIDGE	R30G010	SS 7465 3363
	NORTH RADWORTHY STREAM	MOLE CONFLUENCE (INFERRED STRETCH)		
50	MULLY BROOK	HANSFORD BRIDGE	R30B007	SS 6583 1582
	MULLY BROOK	TAW CONFLUENCE (INFERRED STRETCH)		
51	HOLLOCOMBE WATER	WOODROBERTS	R30B008	SS 6280 1075
52	HOLLOCOMBE WATER	BRIDGE REEVE	R30B009	SS 6617 1345

Reach Length (km)	Distance from source (km)	River Quality Objective	85 RWC Class	86 RWC Class	87 RWC Class	88 RWC Class	89 RWC Class	90 RWC Class	91 RWC Class
5.4	13.9	1A	1A	1B	1A	1A	1A	1B	1B
2.9	16.8	1B	1A	1B	2	2	1B	2	2
2.2	19.0	1B	1A	1B	2	2	1B	1B	1B
6.7	25.7	1B	1B	1B	1B	1B	1B	1B	1B
7.3	33.0	1B	1A	1A	1A	1A	2	2	2
1.1	34.1	1B	1A	1A	1A	1A	2	2	2
1.5	1.5	1A	1A	2	1A	1A	1A	U	U
1.2	2.7	1A	1A	2	1A	1A	1A	1A	1A
2.3	5.0	1A	1A	2	1A	1A	1A	2	2
7.0	12.0	1A	1A	2	1A	1A	1A	1A	1A
5.9	17.9	1A	1A	3	3	2	2	1A	1A
5.6	23.5	1A	1B	1A	2	3	2	1A	1A
2.9	26.4	1A	1B	1A	2	3	2	2	2
0.1	26.5	1A	1B	1A	2	3	2	2	2
7.7	7.7	1B						3	3
0.1	7.8	1B						3	3
8.1	8.1	1A	1A	1A	1B	1B	1B	1A	1A
0.4	8.5	1A	1A	1A	1B	1B	1B	1A	1A
8.4	8.4	1B	2	1B	1B	1B	1B	2	2
2.9	11.3	1B	2	1B	1B	1B	1B	1B	1B
0.1	11.4	1B	2	1B	1B	1B	1B	1B	1B
8.3	8.3	1B	2	2	2	1B	1B	1B	1B
7.6	15.9	1B	2	2	2	1B	1B	1B	1B
0.2	16.1	1B	2	2	2	1B	1B	1B	1B
7.1	7.1	1B	1B	1A	1A	1A	1B	1B	1B
6.6	13.7	1B	1A	1A	1A	1A	1B	1A	1A
4.8	18.5	1B	1A	1A	1A	1A	1B	1B	1B
7.0	7.0	1A						1B	1A
0.1	7.1	1A						1B	1A
2.8	2.8	1A						2	2
0.4	3.2	1A						2	2
7.8	7.8	1B	2	1B	3	3	3	2	2
0.7	8.5	1B	2	1B	3	3	3	2	2
3.3	3.3	1A	1A	1A	3	3	3	2	2
5.3	8.6	1A	1A	1A	3	3	3	1B	1B

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION
1991 RIVER WATER QUALITY CLASSIFICATION
CATCHMENT: TAW

1991 Map Position Number	River	Reach upstream of	User Reference Number	National Grid Reference	Reach Length (km)	Distance from source (km)	River Quality Objective	85 NWC Class	86 NWC Class	87 NWC Class	88 NWC Class	89 NWC Class	90 NWC Class	91 NWC Class
	HOLLOCOMBE WATER	TAW CONFLUENCE (INFERRED STRETCH)			0.1	8.7	1A	1A	1A	3	3	3	1B	1B
53	LITTLE DART RIVER	NEW BRIDGE	R30E001	SS 7967 1492	10.1	10.1	1B	1B	1B	1B	1B	1B	1A	1B
54	LITTLE DART RIVER	STONE MILL BRIDGE	R30E002	SS 7199 1310	9.8	19.9	1B	1B	1B	2	2	2	1B	2
55	LITTLE DART RIVER	DART BRIDGE	R30E003	SS 6691 1372	6.0	25.9	1B	1B	1B	2	2	2	2	2
	LITTLE DART RIVER	TAW CONFLUENCE (INFERRED STRETCH)			0.7	26.6	1B	1B	1B	2	2	2	2	2
56	HUNTACOTT WATER	CHULMLEIGH	R30E005	SS 6967 1384	10.1	10.1	1B						2	2
	HUNTACOTT WATER	LITTLE DART CONFL. (INFERRED STRETCH)			0.3	10.4	1B						2	2
57	STURCOMBE RIVER	BRADFORD TRACY	R30E006	SS 8128 1623	7.9	7.9	1B						1B	1B
	STURCOMBE RIVER	LITTLE DART CONFL. (INFERRED STRETCH)			0.6	8.5	1B						1B	1B
58	YEO (LAPFORD)	BOW BRIDGE	R30D004	SS 7173 0174	10.1	10.1	1B	1B	2	2	2	2	2	2
59	YEO (LAPFORD)	ZEAL MORACHORUM	R30D012	SS 7317 0449	4.3	14.4	1B	2	1B	2	2	2	1B	1B
60	YEO (LAPFORD)	BURY BRIDGE	R30D005	SS 7377 0679	3.2	17.6	1B	2	1B	2	2	2	1B	1B
61	YEO (LAPFORD)	WDMET BRIDGE	R30D006	SS 7145 0926	4.3	21.9	1B	2	1B	2	2	2	2	1B
	YEO (LAPFORD)	TAW CONFLUENCE (INFERRED STRETCH)			0.5	22.4	1B	2	1B	2	2	2	2	1B
62	DALCH	MILL BARTON	R30D001	SS 8147 1234	6.2	6.2	1B	2	1B	2	2	3	3	3
63	DALCH	CANN'S MILL BRIDGE	R30D011	SS 7851 1049	4.1	10.3	1B	2	1B	2	2	3	2	2
64	DALCH	PRIOR TO CONFLUENCE WITH RIVER YEO	R30D003	SS 7358 0745	7.5	17.8	1B	2	1B	2	2	3	4	4
	DALCH	YEO (LAPFORD) CONFL. (INFERRED STRETCH)			0.0	17.8	1B	2	1B	2	2	3	4	4
65	ASH BROOK	A377 PRIOR TO RIVER YEO (LAPFORD)	R30D013	SS 7373 0658	7.9	7.9	1B						3	3
	ASH BROOK	YEO (LAPFORD) CONFL. (INFERRED STRETCH)			0.1	8.0	1B						3	3
66	SPIRE'S LAKE	ABOVE NORTH TAWTON DAIRY	R30C009	SS 6550 0090	1.4	1.4	1B							1B
	SPIRE'S LAKE	TAW CONFLUENCE (INFERRED STRETCH)			0.3	1.7	1B							1B
67	CROYDE STREAM	CROWBOROUGH	R30A032	SS 4681 3875	0.7	0.7	1B						R	3
68	CROYDE STREAM	PORDA	R30A031	SS 4571 3914	1.5	2.2	1B						3	3
69	CROYDE STREAM	CROYDE	R30A028	SS 4443 3918	1.3	3.5	1B						1B	3
	CROYDE STREAM	NORMAL TIDAL LIMIT (INFERRED STRETCH)			0.9	4.4	1B						1B	3
70	WOOLACOMBE STREAM	PRIOR TO BEACH	R30A005	SS 4578 4355	2.8	2.8	1A						1A	3
	WOOLACOMBE STREAM	MEAN HIGH WATER (INFERRED STRETCH)			0.2	3.0	1A						1A	3



NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION
 1991 RIVER WATER QUALITY CLASSIFICATION
 CALCULATED DETERMINAND STATISTICS USED FOR QUALITY ASSESSMENT
 CATCHMENT: TW

River	Reach upstream of	User Ref. Number	RQD	Calculated Determinand Statistics used for Quality Assessment																			
				pH Lower Class 5tile		pH Upper Class 95tile		Temperature Class 95tile		DO (%) Class 5tile		BOD (RTU) Class 95tile		Total Ammonia Class 95tile		Union. Ammonia Class 95tile		S.Solids Class Mean		Total Copper Class 95tile		Total Zinc Class 95tile	
TW	A.30 BRIDGE AT STICKLEBROOK	R30C001	1B	1A	5.1	1A	7.5	1A	17.4	1A	90.0	1A	2.0	1A	0.034	1A	0.010	1A	1.5	1A	5.0	1A	11.6
TW	ROADEN MOOR	R30C002	1B	1A	6.8	1A	7.6	1A	17.1	1A	87.7	1A	2.0	1A	0.102	1A	0.010	1A	3.4	-	-	-	-
TW	YED FARM	R30C003	1B	1A	6.9	1A	8.3	1A	17.8	1A	83.6	1B	3.1	1A	0.190	1A	0.010	1A	5.5	-	-	-	-
TW	BONLEIGH	R30C004	1B	1A	6.9	1A	8.6	1A	18.1	1A	86.8	2	6.8	1A	0.252	1A	0.010	1A	8.9	-	-	-	-
TW	TW BRIDGE	R30C005	1B	1A	6.9	1A	8.3	1A	18.1	1A	87.7	1A	2.7	1A	0.186	1A	0.012	1A	6.4	1A	17.6	1A	39.2
TW	HIGHER PARK	R30C006	1B	1A	6.9	1A	8.4	1A	16.7	1A	82.0	1A	2.6	1A	0.151	1A	0.010	1A	7.0	-	-	-	-
TW	CHENON	R30B001	1B	1A	7.1	1A	8.6	1A	19.3	1B	78.0	1B	4.3	1B	0.328	1A	0.010	1A	9.2	1A	12.7	1A	28.4
TW	KERSHAM BRIDGE	R30B002	1B	1A	7.1	1A	8.5	1A	20.5	1B	61.0	2	5.1	1A	0.219	1A	0.010	1A	14.7	1A	7.0	1A	28.8
TW	NEWHAM BRIDGE	R30B003	1B	1A	7.1	1A	8.5	1A	21.0	1B	72.4	1B	3.5	1A	0.200	1A	0.012	1A	10.8	2	48.0	1A	48.5
TW	KINGFORD	R30B004	1B	1A	7.1	1A	8.5	1A	20.9	2	55.0	1B	3.1	1A	0.120	1A	0.010	1A	10.3	1A	6.0	1A	17.2
TW	UMBERLEIGH	R30B015	1B	1A	7.1	1A	8.6	1A	19.7	1B	75.3	1B	3.5	1A	0.132	1A	0.010	1A	17.6	1A	7.0	1A	17.0
TW	CHAPELTON FOOTBRIDGE	R30B014	1B	1A	7.0	1A	8.3	1A	19.9	1B	79.2	1B	3.8	1A	0.190	1A	0.010	1A	18.5	1A	16.2	1A	28.0
TW	NEW BRIDGE	R30B005	1B	1A	7.1	1A	8.2	1A	19.8	1B	77.5	1B	3.2	1A	0.120	1A	0.010	1A	13.9	1A	7.8	1A	19.0
CHN	VELATOR BRIDGE	R30A002	1B	1A	7.2	1A	7.9	1A	16.0	1B	77.2	2	5.1	1B	0.316	1A	0.010	1A	18.5	1A	7.3	1A	20.1
WCHL WATER	OLD RAILWAY BRIDGE, VELATOR	R30A006	1B	1A	7.5	1A	8.1	1A	16.4	1B	79.4	1B	3.9	1A	0.200	1A	0.010	1A	23.2	1A	8.1	1A	16.0
BRACIFORD WATER	BLAKEMELL	R30A001	1B	1A	7.2	1A	7.8	1A	17.2	1A	84.6	2	5.6	1A	0.247	1A	0.010	1A	20.4	1A	9.0	1A	20.1
YED(BARNSTAPLE)	BROOKHAM BRIDGE	R30H001	1A	1A	7.3	1A	7.8	1A	15.0	1A	88.5	1A	2.5	1A	0.176	1A	0.010	1A	8.9	1A	7.0	1A	18.0
YED(BARNSTAPLE)	COLLARD BRIDGE	R30H006	1A	1A	7.2	1A	7.9	1A	15.0	1A	82.8	1A	2.4	1A	0.102	1A	0.010	1A	8.8	1A	5.0	1A	9.5
REE STREAM	MISTLANDFORD RESERVOIR	R30H008	1A	1A	7.2	1A	7.8	1A	19.0	1A	87.2	1A	2.5	1A	0.137	1A	0.010	1A	2.5	2	22.3	2	209.8
REE STREAM	BRATTON FLEMING	R30H009	1A	1A	6.9	1A	7.6	1A	15.4	1A	90.0	1A	2.6	1A	0.040	1A	0.010	1A	8.9	1A	11.0	1A	11.6
REE STREAM	LOWERE CROSS	R30H004	1A	1A	7.0	1A	7.8	1A	15.2	1A	85.8	1A	2.4	1A	0.153	1A	0.010	1A	7.4	1A	6.1	1A	6.1
VENN	LANDREY	R30A003	1B	1A	7.5	1A	8.1	1A	15.7	1A	80.4	2	6.4	1A	0.133	1A	0.010	3	28.6	1A	47.8	1A	83.5
VENN	BISHOPS TOWTON	R30A004	1B	1A	7.3	1A	8.3	1A	16.3	1B	76.0	1B	4.9	1A	0.171	1A	0.010	3	44.1	1A	15.8	1A	477.0
LANGHAM LAKE	LANGRIDGEFORD	R30B016	1B	1A	7.1	1A	7.8	1A	17.5	1A	81.5	2	5.3	1A	0.170	1A	0.010	1A	11.5	1A	5.0	1A	28.0
LANGHAM LAKE	LANGHAM BRIDGE	R30B006	1B	1A	7.0	1A	7.8	1A	18.6	1B	68.4	1B	4.1	1A	0.118	1A	0.010	1A	11.8	2	342.8	1A	50.0
HWARRIDGE BROOK	HWARRIDGE BRIDGE	R30B012	1B	1A	7.2	1A	7.9	1A	17.9	1B	75.0	2	5.2	1A	0.287	1A	0.010	1A	20.0	1A	6.0	1A	10.0
MOLE	NORTH MOLTON	R30F001	1B	1A	6.9	1A	7.7	1A	16.4	1A	81.0	1B	3.7	1A	0.200	1A	0.010	1A	6.0	1A	10.0	1A	12.4
MOLE	BARNHOUSE	R30F002	1A	1A	7.1	1A	7.8	1A	16.0	1A	83.0	1B	3.7	1A	0.160	1A	0.010	1A	8.2	1A	8.0	1A	14.0
MOLE	PRIOR TO RIVER YED	R30F003	1B	1A	6.9	1A	7.8	1A	17.0	2	57.0	1B	3.4	1A	0.277	1A	0.010	1A	8.6	2	32.0	1A	128.2
MOLE	NEW BRIDGE	R30F004	1B	1A	7.1	1A	7.8	1A	17.1	1B	76.8	1B	3.2	1A	0.156	1A	0.010	1A	8.5	1A	11.3	1A	35.6
MOLE	MOLE BRIDGE	R30F005	1B	1A	7.1	1A	8.1	1A	17.8	1B	78.2	1B	3.4	1A	0.138	1A	0.010	1A	8.3	1A	19.2	1A	51.2
MOLE	HEAD BRATTON	R30F006	1B	1A	7.1	1A	7.8	1A	17.5	2	52.0	2	5.4	1A	0.157	1A	0.010	1A	7.4	1A	8.0	1A	12.8
BRAY	CHALLACOMBE	R30G001	1A	1A	6.9	1A	7.7	1A	17.7	1A	82.0	1A	2.0	1A	0.034	1A	0.010	1A	4.1	1A	11.7	1A	12.0
BRAY	LEEDHAM FORD	R30G011	1A	1A	6.7	1A	7.7	1A	17.4	1A	88.6	1B	3.4	1A	0.064	1A	0.010	1A	7.7	2	33.8	1A	23.2
BRAY	BRAYFORD	R30G002	1A	1A	6.9	1A	7.8	1A	18.9	1A	85.7	1A	2.3	1A	0.037	1A	0.010	1A	4.4	1A	8.0	1A	10.0

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION
 1991 RIVER WATER QUALITY CLASSIFICATION
 CALCULATED DETERMINAND STATISTICS USED FOR QUALITY ASSESSMENT
 CRITERION: 12W

River	Reach upstream of	User Ref. Number	RQO	Calculated Determinand Statistics used for Quality Assessment												S.Solids Class Mean	Total Copper Class 95tile	Total Zinc Class 95tile
				pH Lower Class	pH Lower 5tile	pH Upper Class	pH Upper 95tile	Temperature Class	Temperature 95tile	DO (%) Class	DO (%) 5tile	BOD (ATU) Class	BOD (ATU) 95tile	Total Ammonia Class	Total Ammonia 95tile			
BRAY	BRAYLEY BRIDGE	R30C003	1A	1A	7.2	1A	8.0	1A	17.2	1A	86.6	1A	2.4	1A	0.044	1A	4.4	-
BRAY	BRAY BRIDGE	R30C012	1A	1A	7.2	1A	8.4	1A	16.9	1A	93.0	1A	2.6	1A	0.130	1A	5.3	-
BRAY	MEEDIE BARTON	R30C004	1A	1A	7.2	1A	7.9	1A	17.0	2	55.0	1A	2.3	1A	0.080	1A	7.1	1A 13.0
BRADFORD WATER	CLARWORTHY	R30C013	1B	1A	7.2	1A	7.9	1A	17.4	1B	78.3	3	9.8	3	4.108	3	0.037	1A 5.0 1A 17.0
HOLENATER (HOLLAND)	LINKLEHAM BRIDGE	R30C005	1A	1A	7.0	1A	7.7	1A	16.1	1A	92.5	1A	2.1	1A	0.031	1A	3.9	1A 9.1 1A 10.2
LITTLE SIDDER STREAM	ADAM BRIDGE	R30F010	1B	1A	7.0	1A	7.8	1A	16.7	1B	66.0	2	6.0	1A	0.217	1A	15.0	-
LITTLE SIDDER STREAM	ALSMER	R30F011	1B	1A	7.0	1A	7.9	1A	16.0	1B	64.5	1B	3.1	1A	0.080	1A	4.9	1A 8.9 1A 9.9
CROOKED ONK	ASHMILL	R30F023	1B	1A	6.9	1A	7.8	1A	15.5	1B	76.8	1B	4.6	1A	0.285	1A	8.1	1A 5.0 1A 17.0
CROOKED ONK	A.373 BRIDGE AT ALSMER	R30F007	1B	1A	6.9	1A	7.7	1A	17.3	1B	62.5	1B	4.3	1A	0.095	1A	12.3	1A 5.5 1A 13.0
YED(HOLLAND)	BOTTENHUK MILL	R30F008	1B	1A	7.1	1A	7.9	1A	16.0	1A	85.1	1B	3.9	1A	0.306	1A	9.6	1A 7.0 1A 35.3
YED(HOLLAND)	VERNEY	R30F024	1B	1A	7.0	1A	7.9	1A	14.9	1A	87.8	1A	2.1	1A	0.066	1A	8.6	1A 8.0 1A 8.0
YED(HOLLAND)	GRILSTONE	R30F009	1B	1A	7.1	1A	7.7	1A	16.0	1B	66.0	1B	3.4	1A	0.050	1A	8.6	1A 6.0 1A 8.9
SHEEDWASH STREAM	YED FARM	R30F022	1A	1A	6.9	1A	7.8	1A	16.5	1A	86.0	1A	2.7	1A	0.054	1A	6.7	-
NORTH RADBOROUGH STREAM	BENHAM BRIDGE	R30C010	1A	1A	6.8	1A	7.6	1A	15.0	1B	77.2	1A	2.0	1A	0.064	1A	5.6	2 50.0 1A 50.0
MULLY BROOK	HANSFORD BRIDGE	R30E007	1B	1A	7.1	1A	7.7	1A	17.2	2	50.1	1B	3.5	1A	0.224	1A	9.9	1A 12.2 1A 49.1
HOLLOCOMBE WATER	WOODPOBBERIS	R30E008	1A	1A	6.9	1A	7.8	1A	16.0	1A	83.7	2	5.5	1B	0.351	1A	13.7	1A 7.0 1A 19.6
HOLLOCOMBE WATER	BRIDGE REEVE	R30E009	1A	1A	7.0	1A	7.8	1A	15.9	1B	78.8	1B	4.2	1A	0.165	1A	7.6	1A 7.0 1A 6.0
LITTLE DART RIVER	NEW BRIDGE	R30E001	1B	1A	6.6	1A	7.8	1A	16.2	1A	81.0	1B	3.5	1A	0.140	1A	6.1	-
LITTLE DART RIVER	STONE MILL BRIDGE	R30E002	1B	1A	6.8	1A	7.8	1A	16.9	1A	83.7	2	5.6	1A	0.275	1A	13.8	1A 7.0 1A 23.0
LITTLE DART RIVER	DART BRIDGE	R30E003	1B	1A	7.0	1A	7.7	1A	17.6	2	54.8	1B	3.5	1A	0.221	1A	5.9	1A 7.2 1A 19.3
HUNDICOTT WATER	CHUMLEIGH	R30E005	1B	1A	6.7	1A	7.8	1A	17.0	1A	82.7	2	5.7	1B	0.350	1A	6.8	-
STURCOMBE RIVER	BRADFORD TRACY	R30E006	1B	1A	6.8	1A	7.6	1A	17.5	1B	79.0	1B	3.1	1A	0.124	1A	7.7	1A 8.0 1A 21.0
YED(LAFFORD)	BOW BRIDGE	R30C004	1B	1A	7.2	1A	8.0	1A	18.5	2	53.0	1B	3.6	1A	0.174	1A	8.8	-
YED(LAFFORD)	ZEAL MONACHORUM	R30C012	1B	1A	7.1	1A	8.3	1A	17.4	1B	66.9	1B	3.4	1A	0.160	1A	13.8	1A 10.8 1A 16.9
YED(LAFFORD)	BURY BRIDGE	R30C005	1B	1A	7.2	1A	8.1	1A	19.0	1B	61.9	1B	3.7	1A	0.192	1A	11.3	-
YED(LAFFORD)	WOMET BRIDGE	R30C006	1B	1A	7.0	1A	8.2	1A	17.4	1B	62.4	1B	3.7	1B	0.413	1A	7.6	1A 9.3 1A 27.9
DALCH	MILL BARTON	R30C001	1B	1A	6.8	1A	7.8	1A	16.0	3	36.6	1B	4.0	3	2.667	3	0.034	-
DALCH	CANN'S MILL BRIDGE	R30C011	1B	1A	7.0	1A	8.3	1A	18.7	1B	61.5	2	6.8	1B	0.462	1A	6.6	1A 10.0 1A 14.0
DALCH	PRIOR TO CONFLUENCE WITH RIVER YED	R30C003	1B	1A	7.0	1A	8.3	1A	18.8	3	17.4	4	77.8	3	10.146	3	0.074	2 153.5 1A 186.0
ASH BROOK	A377 PRIOR TO RIVER YED(LAFFORD)	R30C013	1B	1A	6.9	1A	7.9	1A	17.5	3	36.6	1B	4.2	2	0.746	1A	12.6	1A 9.0 1A 289.0

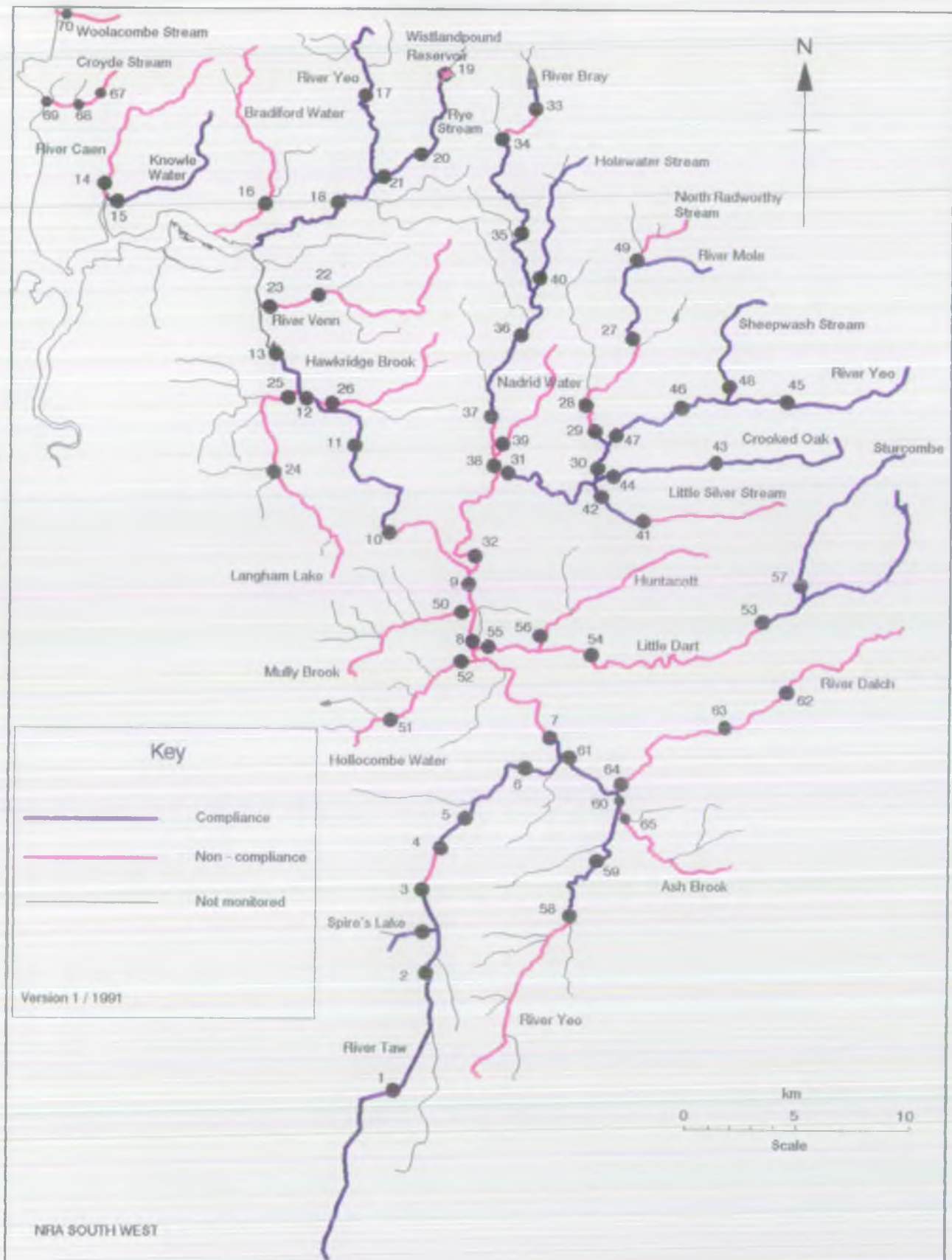
NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION

1991 RIVER WATER QUALITY CLASSIFICATION

CALCULATED DETERMINAND STATISTICS USED FOR QUALITY ASSESSMENT

CATCHMENT: TW

River	Reach upstream of	User Ref. Number	RQD	Calculated Determinand Statistics used for Quality Assessment																			
				pH Lower Class		pH Upper Class		Temperature Class		DO (%) Class		BOD (ATU) Class		Total Ammonia Class		Union. Ammonia Class		S.Solids Class		Total Copper Class		Total Zinc Class	
				95tile	95tile	95tile	95tile	95tile	95tile	95tile	95tile	95tile	95tile	95tile	95tile	95tile	Mean	95tile	95tile	95tile	95tile		
SPIRE'S LAKE	ABOVE NORTH TOWN DAIRY	R30C009	1B	1A	7.4	1A	8.1	1A	16.0	1B	71.0	1A	2.7	1A	0.080	1A	0.010	1A	6.3	-	-	-	-
CROZE STREAM	CROWBOUGH	R30A032	1B	1A	7.2	1A	7.8	1A	15.8	1B	71.0	2	8.0	1B	0.640	1A	0.010	3	29.8	-	-	-	-
CROZE STREAM	FORDA	R30A031	1B	1A	7.7	1A	8.2	1A	17.5	1A	83.3	2	6.1	1A	0.261	1A	0.010	3	34.5	-	-	-	-
CROZE STREAM	CROZE	R30A028	1B	1A	7.6	1A	8.3	1A	16.8	1A	84.6	2	5.8	1B	0.366	1A	0.010	3	26.9	1A	6.3	1A	13.6
MOULACOMBE STREAM	PRIOR TO BEACH	R30A005	1A	1A	7.4	1A	8.0	1A	16.7	1A	83.2	1A	2.5	1A	0.133	1A	0.010	3	27.8	1A	6.0	1A	29.3



NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION

1991 RIVER WATER QUALITY CLASSIFICATION

NUMBER OF SAMPLES (N) AND NUMBER OF SAMPLES EXCEEDING QUALITY STANDARD (P)

OUTLET: TW

River	Reach upstream of	User Ref. Number	pH Lower		pH Upper		Temperature		DO (%)		BOD (ATU)		Total Ammonia		Union. Ammonia		S.Solids		Total Copper		Total Zinc	
			N	P	N	P	N	P	N	P	N	P	N	P	N	P	N	P	N	P	N	P
TDW	A.30 BRIDGE AT STICKLEBRIDGE	R30C001	32	1	32	-	32	-	32	-	32	-	32	-	21	-	32	-	22	-	22	-
TDW	ROWEN MOOR	R30C002	32	-	32	-	32	-	32	-	32	-	32	-	28	-	32	1	2	-	2	-
TDW	YED FARM	R30C003	31	-	31	-	31	-	31	-	31	-	31	-	30	-	31	1	0	-	0	-
TDW	BONLEIGH	R30C004	31	-	31	-	31	-	31	-	31	1	31	-	29	-	31	2	0	-	0	-
TDW	TDW BRIDGE	R30C005	37	-	37	-	37	-	37	-	37	-	37	1	36	-	37	1	37	1	37	-
TDW	HIGHER PARK	R30C006	32	-	32	-	32	-	32	-	32	-	32	-	31	-	32	1	0	-	0	-
TDW	CHENSON	R30B001	33	-	33	-	33	-	33	-	33	-	33	-	32	-	33	3	20	-	20	-
TDW	KERSHAM BRIDGE	R30B002	40	-	40	-	40	1	40	1	40	2	40	-	39	-	40	3	28	-	28	-
TDW	NEWMAN BRIDGE	R30B003	40	-	40	1	40	1	40	1	40	1	40	-	37	1	40	4	40	2	40	-
TDW	KINGFORD	R30B004	39	-	39	1	40	1	39	2	39	-	39	-	37	-	39	3	27	-	27	-
TDW	UMBERLEIGH	R30B015	32	-	32	1	32	-	32	-	32	-	32	-	30	-	32	4	20	-	20	-
TDW	CHAPELTON FOOTBRIDGE	R30B014	69	-	69	-	71	1	67	-	68	1	67	-	57	-	68	11	67	2	67	-
TDW	NEW BRIDGE	R30B005	43	-	43	-	43	1	41	-	43	-	43	-	41	-	43	5	31	-	31	-
CHEN	VELATOR BRIDGE	R30A002	36	-	36	-	35	-	35	-	36	1	36	-	30	-	36	8	36	-	36	-
KNOWL WIDER	OLD RAILWAY BRIDGE, VELATOR	R30A006	36	-	36	-	35	-	35	-	36	-	36	-	33	-	36	12	36	-	35	-
BRADFORD WIDER	BLAKENELL	R30A001	37	-	37	-	36	-	36	-	37	2	37	-	34	-	37	4	37	-	37	-
YED(BARNSTABLE)	BROOKHAM BRIDGE	R30H001	31	-	31	-	30	-	29	-	31	-	31	-	29	-	31	2	19	-	19	-
YED(BARNSTABLE)	DOLLAND BRIDGE	R30H006	69	-	69	-	67	-	67	2	69	-	68	-	61	-	69	8	69	-	69	-
REE STREAM	WISTLANDFORD RESERVOIR	R30H008	24	-	24	-	24	-	23	-	23	-	22	-	18	-	24	-	24	1	24	1
REE STREAM	BRATTON FLEMING	R30H009	43	-	43	-	43	-	42	-	43	1	43	-	38	-	43	2	31	-	31	-
REE STREAM	LONGHORE CROSS	R30H004	38	-	38	-	37	-	36	1	38	-	37	-	35	-	38	2	38	-	38	-
VENN	LANDREY	R30A003	32	-	32	-	31	-	31	-	32	2	32	-	28	-	32	8	20	-	20	-
VENN	BISHOPS TUNN	R30A004	37	-	37	-	36	-	35	-	37	1	37	-	34	-	37	12	37	-	37	1
LANGHAM LAKE	LANGRIDGEFORD	R30B016	30	-	30	-	30	-	29	-	30	2	30	-	28	-	30	2	18	-	18	-
LANGHAM LAKE	LANGHAM BRIDGE	R30B006	36	-	36	-	36	-	35	-	36	1	36	-	31	-	36	5	36	3	36	-
BRIDGE BROOK	BRIDGE BRIDGE	R30B012	30	-	30	-	30	-	29	-	30	2	30	-	28	-	30	1	18	-	18	-
MOLE	NORTH MOLTON	R30F001	32	-	32	-	32	-	32	-	32	-	31	-	29	-	32	1	22	-	22	-
MOLE	BARNHOUSE	R30F002	31	-	31	-	31	-	31	1	31	3	31	-	31	-	31	2	15	-	15	-
MOLE	PRIOR TO RIVER YED	R30F003	40	-	40	-	40	-	40	3	40	1	40	1	39	-	40	2	28	1	28	-
MOLE	NEW BRIDGE	R30F004	37	-	37	-	37	-	37	1	37	-	37	-	33	-	37	2	37	1	37	-
MOLE	MOLE BRIDGE	R30F005	45	-	45	-	43	-	43	1	45	-	45	-	39	-	45	3	33	1	33	-
MOLE	HEAD BRIDGE	R30F006	40	-	40	-	39	-	38	2	40	2	40	-	36	-	40	2	40	-	40	-
BRAY	CHALLACOMBE	R30G001	32	-	32	-	32	-	32	-	31	-	32	-	22	-	32	1	20	-	20	-
BRAY	LEIGH FORD	R30G011	32	-	32	-	32	-	32	-	32	2	32	-	26	-	32	2	27	1	27	-
BRAY	BRAYFORD	R30G002	32	-	32	-	32	-	32	-	32	-	32	-	23	-	32	1	16	-	16	-

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION

1991 RIVER WATER QUALITY CLASSIFICATION

NUMBER OF SAMPLES (N) AND NUMBER OF SAMPLES EXCEEDING QUALITY STANDARD (F)

CATCHMENT: TW

River	Reach upstream of	User Ref. Number	pH Lower		pH Upper		Temperature		DO (%)		BOD (ATU)		Total Ammonia		Union. Ammonia		S.Solids		Total Copper		Total Zinc	
			N	F	N	F	N	F	N	F	N	F	N	F	N	F	N	F	N	F	N	F
BRAY	BRAXLEY BRIDGE	R30G003	31	-	31	-	31	-	31	-	31	-	31	-	23	-	31	-	0	-	0	-
BRAY	BRAY BRIDGE	R30G012	24	-	24	-	24	-	24	-	24	-	24	-	21	-	24	-	0	-	0	-
BRAY	MEETHEN BRIDGE	R30G004	39	-	39	-	39	-	39	2	39	-	39	-	34	-	39	1	39	-	39	-
INDRID WATER	CLAPWORTHY	R30G013	32	-	32	-	32	-	32	-	32	2	32	3	30	1	32	2	12	-	12	-
HOLEWATER (MOLLAND)	LINCOLNHAM BRIDGE	R30G005	37	-	37	-	37	-	37	-	37	-	37	-	28	-	37	1	37	-	37	-
LITTLE SILVER STREAM	COOM BRIDGE	R30F010	32	-	32	-	32	-	32	-	32	2	32	-	30	-	32	2	0	-	0	-
LITTLE SILVER STREAM	ALSHEAR	R30F011	40	-	40	-	40	-	40	1	40	1	40	-	37	-	40	-	40	-	40	-
CROOKED OAK	ASHMILL	R30F023	24	-	24	-	24	-	24	-	24	-	24	-	22	-	23	2	12	-	12	-
CROOKED OAK	A. 373 BRIDGE AT ALSHEAR	R30F007	49	-	49	-	48	-	49	2	49	2	49	-	44	-	49	2	49	-	49	-
YED(MOLLAND)	BOTTLEWALK MILL	R30F008	40	-	40	-	40	-	40	-	40	1	40	-	40	-	40	3	28	-	28	-
YED(MOLLAND)	VERABY	R30F024	23	-	23	-	23	-	23	-	23	-	23	-	21	-	23	2	11	-	11	-
YED(MOLLAND)	GRILLSTONE	R30F009	40	-	40	-	40	-	40	-	40	-	39	-	34	-	40	2	40	-	40	-
SHEEPWASH STREAM	YED FARM	R30F022	31	-	31	-	31	-	31	-	31	-	31	-	26	-	31	2	0	-	0	-
NORTH RADBOROUGH STREAM	BARHAM BRIDGE	R30G010	31	-	31	-	31	-	31	1	31	-	31	-	25	-	31	1	19	1	19	-
MULLY BROOK	HANFORD BRIDGE	R30B007	37	-	37	-	36	-	36	2	37	-	37	-	33	-	37	3	37	1	37	-
HOLLOCOMBE WATER	MOOROBERTS	R30B008	32	-	32	-	32	-	32	-	32	3	32	1	30	-	32	2	20	-	20	-
HOLLOCOMBE WATER	BRIDGE REEVE	R30B009	31	-	31	-	31	-	31	1	31	2	31	-	28	-	31	1	19	-	19	-
LITTLE DART RIVER	NEW BRIDGE	R30B001	31	-	31	-	31	-	30	-	31	1	31	-	29	-	31	1	0	-	0	-
LITTLE DART RIVER	STONE MILL BRIDGE	R30B002	31	-	31	-	31	-	30	-	31	1	31	-	31	-	31	3	19	-	19	-
LITTLE DART RIVER	DART BRIDGE	R30B003	36	-	36	-	36	-	35	2	36	1	36	-	35	-	36	1	36	-	36	-
HINDCOTT WATER	CHUMLEIGH	R30B005	31	-	31	-	31	-	30	-	31	2	31	-	30	-	31	1	0	-	0	-
STURCOMBE RIVER	BRADFORD TRACY	R30B006	35	-	35	-	35	-	34	-	35	-	35	-	33	-	35	3	29	-	29	-
YED(LAFFORD)	BOW BRIDGE	R30B004	31	-	31	-	30	-	31	2	30	-	31	-	28	-	31	2	0	-	0	-
YED(LAFFORD)	ZENL MINACHORUM	R30B012	32	-	32	-	32	-	32	-	32	-	32	-	29	-	32	5	20	-	20	-
YED(LAFFORD)	BURY BRIDGE	R30B005	31	-	31	-	29	-	30	1	30	-	31	-	29	-	31	1	0	-	0	-
YED(LAFFORD)	NIMET BRIDGE	R30B006	32	-	32	-	32	-	31	1	32	-	32	1	32	-	32	-	25	-	25	-
DALCH	MILL BRIDGE	R30B001	32	-	32	-	32	-	31	5	32	-	32	2	32	1	32	-	0	-	0	-
DALCH	CANN'S MILL BRIDGE	R30B011	31	-	31	-	31	-	29	1	31	1	31	-	31	-	31	-	19	-	19	-
DALCH	PRIOR TO CONFLUENCE WITH RIVER YED	R30B003	31	-	31	-	31	-	30	6	31	4	31	6	31	4	31	2	24	1	24	-
ASH BROOK	A177 PRIOR TO RIVER YED(LAFFORD)	R30B013	31	-	31	-	30	-	31	9	30	-	31	1	30	-	31	2	19	-	19	-

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION

1991 RIVER WATER QUALITY CLASSIFICATION

NUMBER OF SAMPLES (N) AND NUMBER OF SAMPLES EXCEEDING QUALITY STANDARD (F)

CATCHMENT: TW

River	Reach upstream of	User Ref. Number	pH Lower		pH Upper		Temperature		DO (%)		BOD (A.U.)		Total Ammonia		Union. Ammonia		S.Solids		Total Copper		Total Zinc	
			N	F	N	F	N	F	N	F	N	F	N	F	N	F	N	F	N	F	N	F
SPINE'S LAKE	ABOVE NORTH TOWN DAIKY	R30CD09	17	-	17	-	16	-	15	-	17	-	17	-	14	-	17	-	7	-	7	-
CROZE STREAM	CROMBOROUGH	R30A032	15	-	15	-	15	-	15	-	15	2	15	-	14	-	15	6	1	-	1	-
CROZE STREAM	FORDA	R30A031	25	-	25	-	25	-	25	-	25	2	25	-	24	-	25	12	0	-	0	-
CROZE STREAM	CROZE	R30A028	32	-	32	-	32	-	32	-	32	1	32	-	32	-	32	8	26	-	26	-
WOOLACOMBE STREAM	PRIOR TO BEACH	R30A005	32	-	32	-	32	-	32	1	32	-	32	-	32	-	32	8	26	-	26	-

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION
 1991 RIVER WATER QUALITY CLASSIFICATION
 PERCENTAGE EXCEEDENCE OF DETERMINAND STATISTICS FROM QUALITY STANDARDS
 CATCHMENT: TAW

River	Reach upstream of	User Ref. Number	PERCENTAGE EXCEEDENCE OF STATISTIC FROM QUALITY STANDARD									
			pH Lower	pH Upper	Temperature	DO (%)	BOD (ATU)	Total Ammonia	Un-ionised Ammonia	Suspended Solids	Total Copper	Total Zinc
TAW	A.30 BRIDGE AT STICKLEPATH	R30C001	-	-	-	-	-	-	-	-	-	-
TAW	ROWDEN MOOR	R30C002	-	-	-	-	-	-	-	-	-	-
TAW	YEO FARM	R30C003	-	-	-	-	-	-	-	-	-	-
TAW	BONDLEIGH	R30C004	-	-	-	-	36	-	-	-	-	-
TAW	TAW BRIDGE	R30C005	-	-	-	-	-	-	-	-	-	-
TAW	HIGHER PARK	R30C006	-	-	-	-	-	-	-	-	-	-
TAW	CHENSON	R30B001	-	-	-	-	-	-	-	-	-	-
TAW	KERSHAM BRIDGE	R30B002	-	-	-	-	2	-	-	-	-	-
TAW	NEWNHAM BRIDGE	R30B003	-	-	-	-	-	-	-	-	20	-
TAW	KINGFORD	R30B004	-	-	-	8	-	-	-	-	-	-
TAW	UMBERLEIGH	R30B015	-	-	-	-	-	-	-	-	-	-
TAW	CHAPELTON FOOTBRIDGE	R30B014	-	-	-	-	-	-	-	-	-	-
TAW	NEW BRIDGE	R30B005	-	-	-	-	-	-	-	-	-	-
CAEN	VELATOR BRIDGE	R30A002	-	-	-	-	2	-	-	-	-	-
KNOWL WATER	OLD RAILWAY BRIDGE, VELATOR	R30A006	-	-	-	-	-	-	-	-	-	-
BRADIFORD WATER	BLAKEWELL	R30A001	-	-	-	-	13	-	-	-	-	-
YEO(BARNSTAPLE)	BROCKHAM BRIDGE	R30H001	-	-	-	-	-	-	-	-	-	-
YEO(BARNSTAPLE)	COLLARD BRIDGE	R30H006	-	-	-	-	-	-	-	-	-	-
RYE STREAM	WISTLANDPOUND RESERVOIR	R30H008	-	-	-	-	-	-	-	-	1	5
RYE STREAM	BRATTON FLEMING	R30H009	-	-	-	-	-	-	-	-	-	-
RYE STREAM	LOXHORE CROSS	R30H004	-	-	-	-	-	-	-	-	-	-
VENN	LANDKEY	R30A003	-	-	-	-	28	-	-	14	-	-
VENN	BISHOPS TANTON	R30A004	-	-	-	-	-	-	-	77	-	-
LANGHAM LAKE	LANGRIDGEFORD	R30B016	-	-	-	-	7	-	-	-	-	-
LANGHAM LAKE	LANGHAM BRIDGE	R30B006	-	-	-	-	-	-	-	-	757	-
HAWKRIDGE BROOK	HAWKRIDGE BRIDGE	R30B012	-	-	-	-	4	-	-	-	-	-
MOLE	NORTH MOLTON	R30F001	-	-	-	-	-	-	-	-	-	-
MOLE	PARKHOUSE	R30F002	-	-	-	-	23	-	-	-	-	-
MOLE	PRIOR TO RIVER YEO	R30F003	-	-	-	5	-	-	-	-	45	-
MOLE	NEW BRIDGE	R30F004	-	-	-	-	-	-	-	-	-	-
MOLE	MOLE BRIDGE	R30F005	-	-	-	-	-	-	-	-	-	-
MOLE	HEAD BARTON	R30F006	-	-	-	13	7	-	-	-	-	-
BRAY	CHALLACOMBE	R30G001	-	-	-	-	-	-	-	-	-	-
BRAY	LEEAM FORD	R30G011	-	-	-	-	12	-	-	-	54	-
BRAY	BRAYFORD	R30G002	-	-	-	-	-	-	-	-	-	-

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION
 1991 RIVER WATER QUALITY CLASSIFICATION
 PERCENTAGE EXCEEDENCE OF DETERMINAND STATISTICS FROM QUALITY STANDARDS
 CATCHMENT: TAW

River	Reach upstream of	User Ref. Number	PERCENTAGE EXCEEDENCE OF STATISTIC FROM QUALITY STANDARD									
			pH Lower	pH Upper	Temperature	DO (%)	BOD (ATU)	Total Ammonia	Un-ionised Ammonia	Suspended Solids	Total Copper	Total Zinc
BRAY	BRAYLEY BRIDGE	R30G003	-	-	-	-	-	-	-	-	-	-
BRAY	BRAY BRIDGE	R30G012	-	-	-	-	-	-	-	-	-	-
BRAY	MEETHE BARTON	R30G004	-	-	-	31	-	-	-	-	-	-
NADRID WATER	CLAPWORTHY	R30G013	-	-	-	-	97	487	76	-	-	-
HOLEWATER (MOLLAND)	LINKLEYHAM BRIDGE	R30G005	-	-	-	-	-	-	-	-	-	-
LITTLE SILVER STREAM	ODAM BRIDGE	R30F010	-	-	-	-	21	-	-	-	-	-
LITTLE SILVER STREAM	ALSWEAR	R30F011	-	-	-	-	-	-	-	-	-	-
CROOKED OAK	ASHMILL	R30F023	-	-	-	-	-	-	-	-	-	-
CROOKED OAK	A.373 BRIDGE AT ALSWEAR	R30F007	-	-	-	-	-	-	-	-	-	-
YEO (MOLLAND)	BOTTREAUX MILL	R30F008	-	-	-	-	-	-	-	-	-	-
YEO (MOLLAND)	VERABY	R30F024	-	-	-	-	-	-	-	-	-	-
YEO (MOLLAND)	GRILSTONE	R30F009	-	-	-	-	-	-	-	-	-	-
SHEEPWASH STREAM	YEO FARM	R30F022	-	-	-	-	-	-	-	-	-	-
NORTH RADWORTHY STREAM	BARHAM BRIDGE	R30G010	-	-	-	4	-	-	-	-	127	-
MULLY BROOK	HANSFORD BRIDGE	R30B007	-	-	-	17	-	-	-	-	-	-
HOLLOCOMBE WATER	WOODROBERTS	R30B008	-	-	-	-	82	13	-	-	-	-
HOLLOCOMBE WATER	BRIDGE REEVE	R30B009	-	-	-	1	41	-	-	-	-	-
LITTLE DART RIVER	NEW BRIDGE	R30E001	-	-	-	-	-	-	-	-	-	-
LITTLE DART RIVER	STONE MILL BRIDGE	R30E002	-	-	-	-	13	-	-	-	-	-
LITTLE DART RIVER	DART BRIDGE	R30E003	-	-	-	9	-	-	-	-	-	-
HUNTACOTT WATER	CHULMLEIGH	R30E005	-	-	-	-	13	-	-	-	-	-
STURCOMBE RIVER	BRADFORD TRACY	R30E006	-	-	-	-	-	-	-	-	-	-
YEO (LAPFORD)	BOW BRIDGE	R30D004	-	-	-	12	-	-	-	-	-	-
YEO (LAPFORD)	ZEAL MONACHORUM	R30D012	-	-	-	-	-	-	-	-	-	-
YEO (LAPFORD)	BURY BRIDGE	R30D005	-	-	-	-	-	-	-	-	-	-
YEO (LAPFORD)	NYMET BRIDGE	R30D006	-	-	-	-	-	-	-	-	-	-
DALCH	MILL BARTON	R30D001	-	-	-	39	-	281	62	-	-	-
DALCH	CANN'S MILL BRIDGE	R30D011	-	-	-	-	37	-	-	-	-	-
DALCH	PRIOR TO CONFLUENCE WITH RIVER YE	R30D003	-	-	-	71	1456	1349	252	4	284	-
ASH BROOK	A377 PRIOR TO RIVER YEO (LAPFORD)	R30D013	-	-	-	39	-	7	-	-	-	-

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION

1991 RIVER WATER QUALITY CLASSIFICATION

PERCENTAGE EXCEEDENCE OF DETERMINAND STATISTICS FROM QUALITY STANDARDS

CATCHMENT: TAW

River	Reach upstream of	User Ref. Number	PERCENTAGE EXCEEDENCE OF STATISTIC FROM QUALITY STANDARD									
			pH Lower	pH Upper	Temperature	DO (%)	BOD (ATU)	Total Ammonia	Un-ionised Ammonia	Suspended Solids	Total Copper	Total Zinc
SPIRE'S LAKE	ABOVE NORTH TAWTON DAIRY	R30C009	-	-	-	-	-	-	-	-	-	-
CROYDE STREAM	CROWBOROUGH	R30A032	-	-	-	-	60	-	-	19	-	-
CROYDE STREAM	FORDA	R30A031	-	-	-	-	22	-	-	38	-	-
CROYDE STREAM	CROYDE	R30A028	-	-	-	-	15	-	-	7	-	-
WOOLACOMBE STREAM	PRIOR TO BEACH	R30A005	-	-	-	-	-	-	-	11	-	-