Environmental Protection Report

River Tamar Catchment River Water Quality Classification 1991

> April 1992 WQP/92/0015 Author: B L Milford Water Quality Planner



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South West Region

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Suggestions for improvements that could be incorporated in the production of the next Classification report would be welcomed.

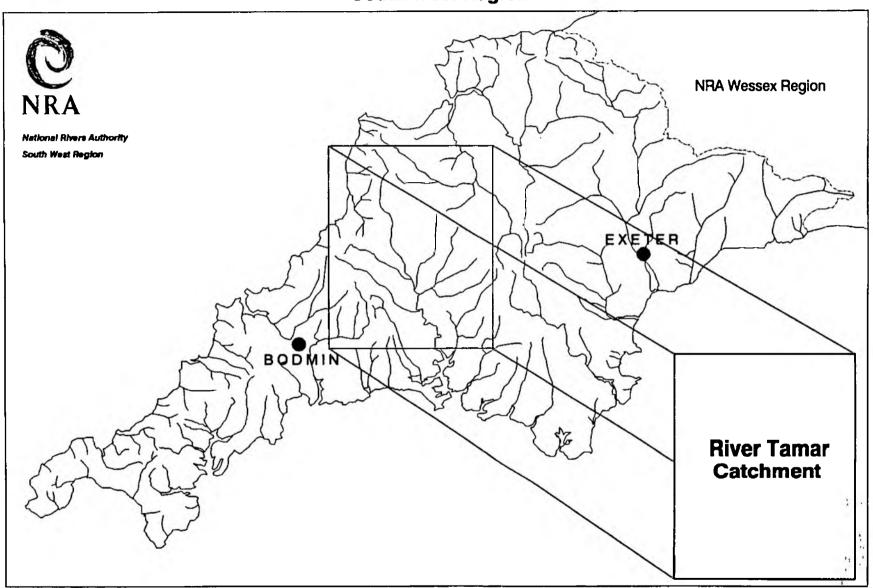
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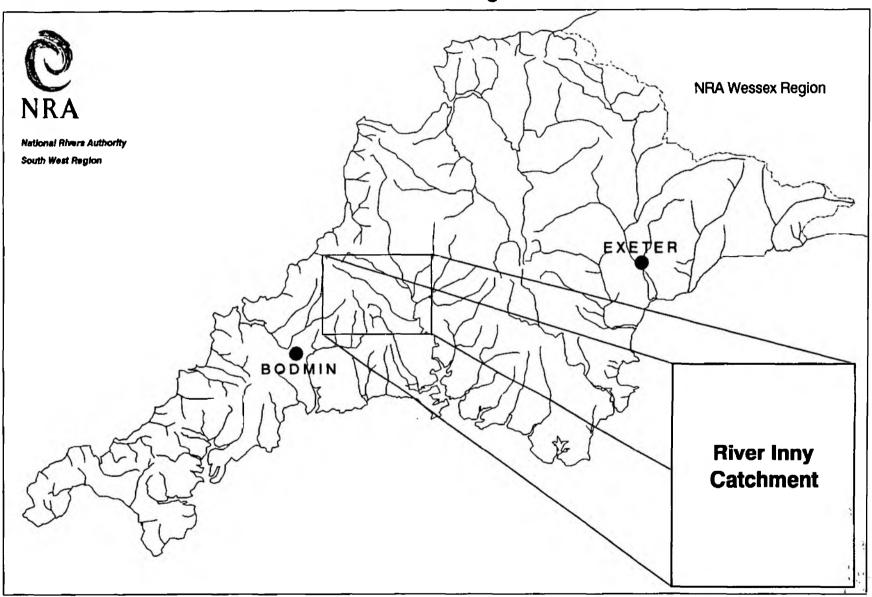
RIVER WATER QUALITY IN THE RIVER TAMAR CATCHMENT

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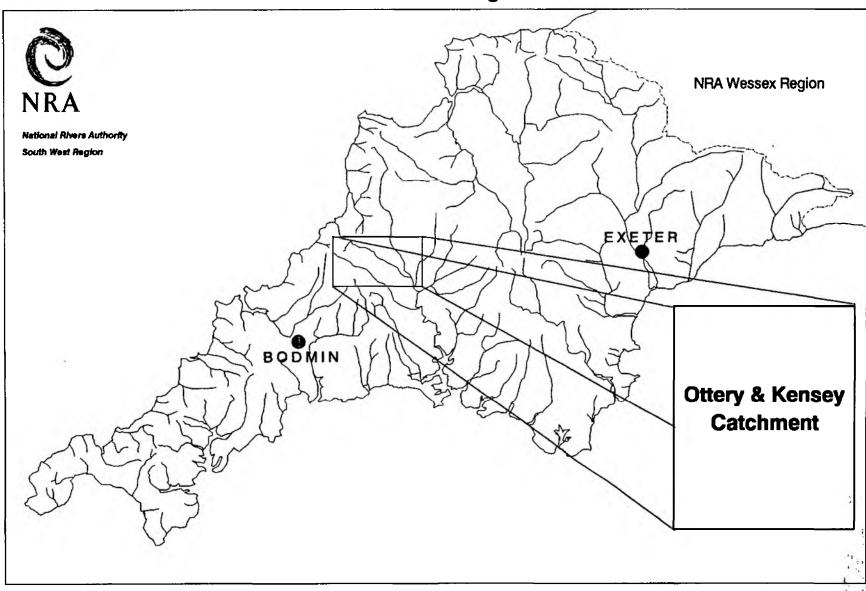
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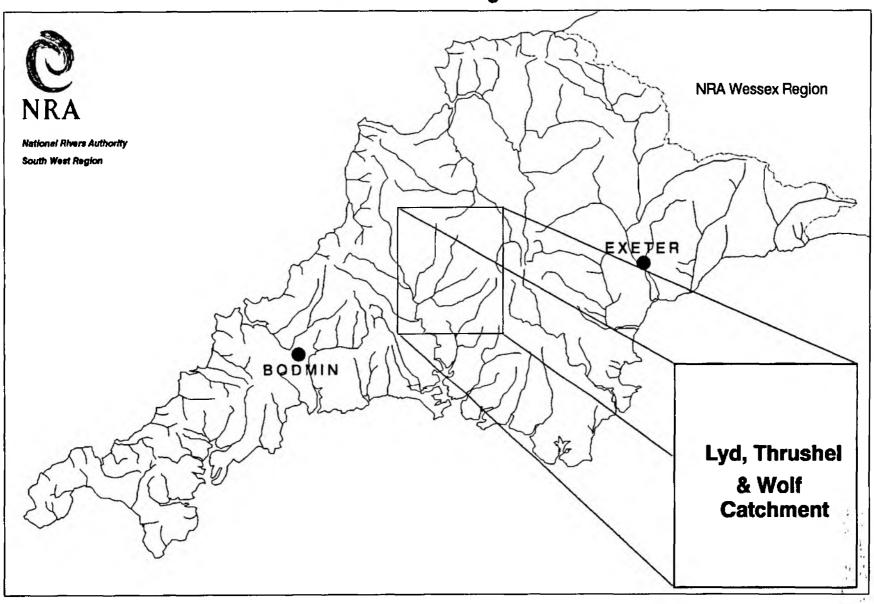
River Tamar Catchment



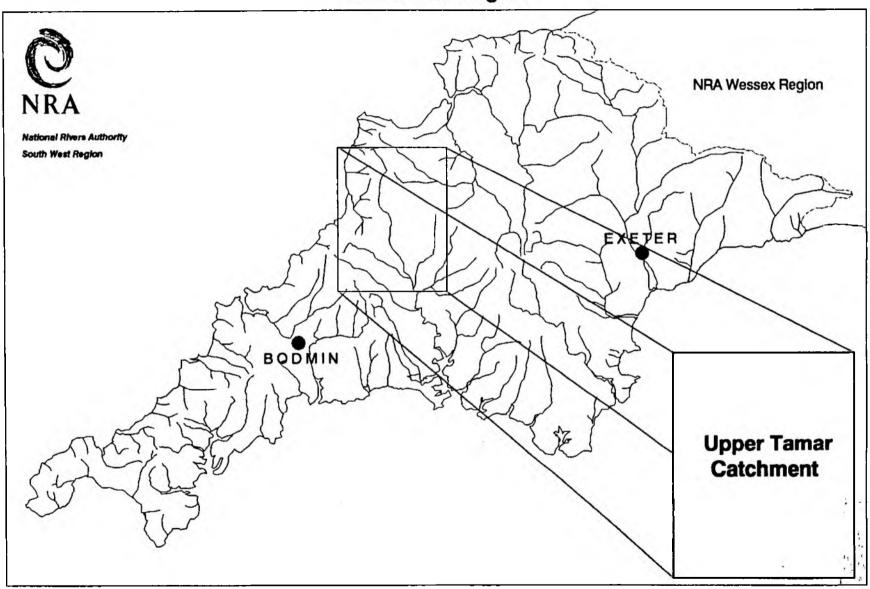
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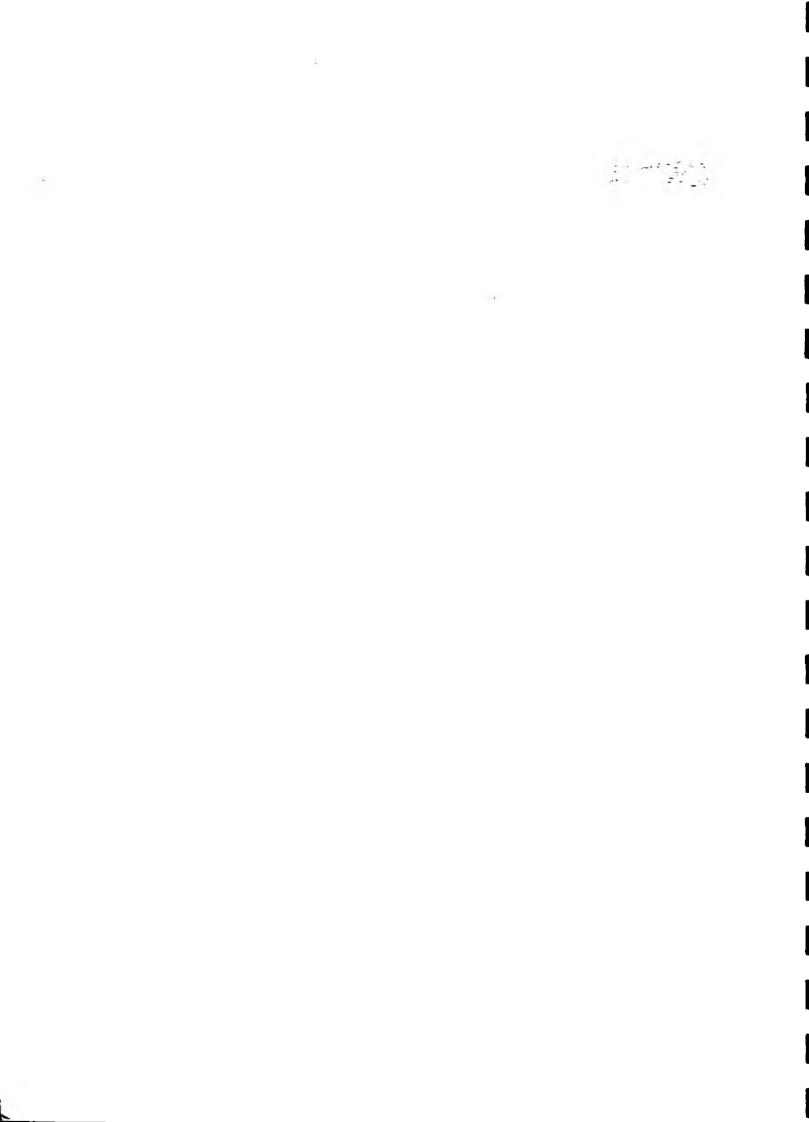
Ottery & Kensey Catchment



Lyd, Thrushel & Wolf Catchment



Upper Tamar 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 Tamar catchment.

2. RIVER TAMAR CATCHMENT

For reasons of clarity the following monitoring summary is not broken up into four separate sub-catchments of the River Tamar as represented by the Water Quality Maps attached.

The River Tamar flows over a distance of 78 km from its source to the tidal limit, (Appendix 8.1). Water quality was monitored at sixteen locations on the main river; fourteen of these sites were sampled at approximately monthly intervals. The site at Gunnislake, which is a National Water Quality monitoring point, was sampled fortnightly.

Throughout the Tamar catchment eighteen secondary, ten tertiary, four quaternary and two quinary tributaries of the River Tamar were monitored at approximately monthly intervals.

In addition Upper and Lower Tamar lakes were monitored each at one location and approximately monthly intervals.

2.1 SECONDARY TRIBUTARIES

The River Inny flows over a distance of 32.5 km from its source to the confluence with the River Tamar, (Appendix 8.1) and was monitored at eight locations.

The River Ottery flows over a distance of 33 km from its source to the confluence with the River Tamar, (Appendix 8.1) and was monitored at six locations.

The River Kensey and Carey flow over a distance of 16.8 km and 21.5 km respectively from their source to the confluence with the River Tamar, (Appendix 8.1) and were monitored at five locations.

The River Lyd flows over a distance of 25.2 km from its source to the confluence with the River Tamar, (Appendix 8.1) and was monitored at four locations.

The Lowley Brook (10.1 km), River Claw (12.1 km) and River Deer (16.8 km) were all monitored at three locations between their source and the confluence with the River Tamar, (Appendix 8.1).

The Small Brook (9.1 km), Lamberal Water (9.6 km) and the River Luckett (5.7 km) were all monitored at two locations between their source and confluence with the River Tamar, (Appendix 8.1).

The Derrill Water (7.4 km), Blanchdown Stream (0.7 km), Portontown Stream (6.4 km), Latchley Brook (1.9 km), Dameral Stream (5.5 km), Tala Water (9.5 km) and Lana Lake (4.9 km), were all monitored at one location. Monitoring points are all located in the lower reaches of these streams. (Appendix 8.1).

2.2 TERTLARY STREAMS

The River Thrushel flows over a distance of 21.4 km before joining the River Lyd, (Appendix 8.1) and was monitored at four locations.

Penpont Water flows over a distance of 15 km from its source to the confluence with the River Inny, (Appendix 8.1) and was monitored at three locations.

The River Lew and Caudworthy Water flow over a distance of 15.8 km and 11.7 km respectively from their source to the confluence with the River Ottery, (Appendix 8.1) and were monitored at two locations.

The Tregeare Stream (3.8 km), Canworthy Water (5.2 km), Bolesbridge Water (9.9 km), Henford Water (5.5 km), Colesmill Stream (3.5 km) and Quither Brook (6.7 km) were all monitored at one location. Monitoring points are all located in the lower reaches of these streams. (Appendix 8.1).

2.3 QUATERNARY TRIBUTARIES

Combebow Stream flows over a distance of (5.5 km) and was sampled at one site between its source and confluence with the River Lew. (Appendix 8.1).

Breazle Water (5.7 km) and Bratton Brook (6.1 km) were both sampled at one location between their sources and confluence with and River Thrushel. (Appendix 8.1).

The River Wolf flows over a distance of 14.9 km from its source to the confluence with the River Thrushel, (Appendix 8.1) and was monitored at three locations.

2.4 QUINARY TRIBUTARY

The Broadwood Brook and Hennard Stream flow over a distance of 6.3 km and 4.2 km respectively from their source to the confluence with the River Wolf, (Appendix 8.1) and were monitored at one location.

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, 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 Tamar 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>	Description
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.

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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.

River water quality has been classified annually using a set of class standards, which includes a standard of 25 mg/l for suspended solids (as an annual mean). This standard is incorporated in the Class 1A, 1B and 2 classification criteria, being applicable to both salmonid and cyprinid fish. (7.3).

If this suspended solids standard has been exceeded in the annual classification at any monitoring location, then the quality of the river reach above the monitoring location is said to have failed to meet its objective and associated use, i.e. the protection of salmonid and cyprinid fish.

This would result for the suspended solids quality test in classifying the river reach as being Class 3 — poor quality.

The type of quality downgrading affects locations across the region, the River Tamar is one such example.

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.

рH

A scale of acid to alkali.

UN-IONISED AMMONIA

Fraction of ammonia poisonous to fish,

NH³.

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

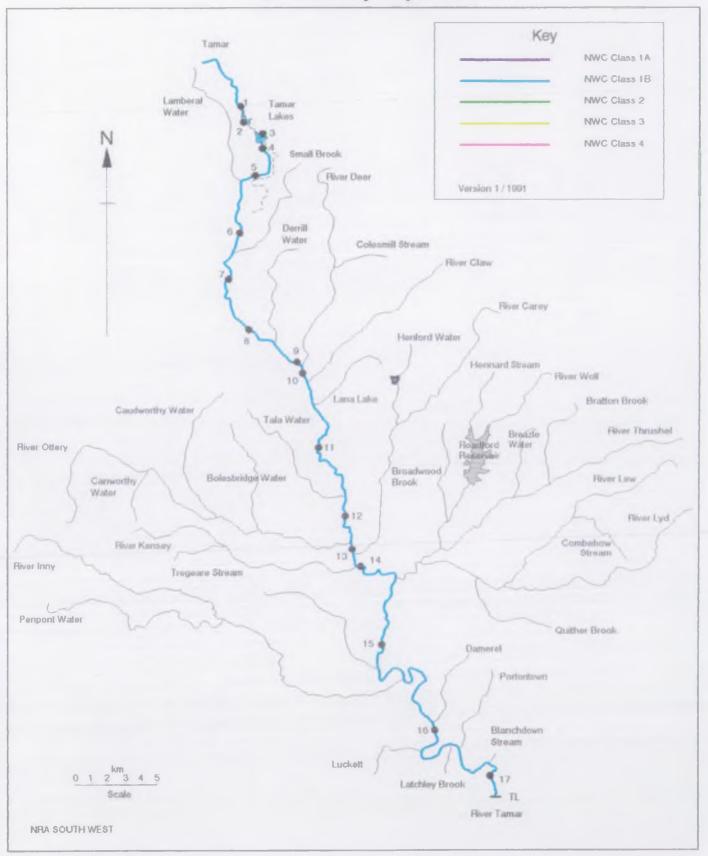
upstream.

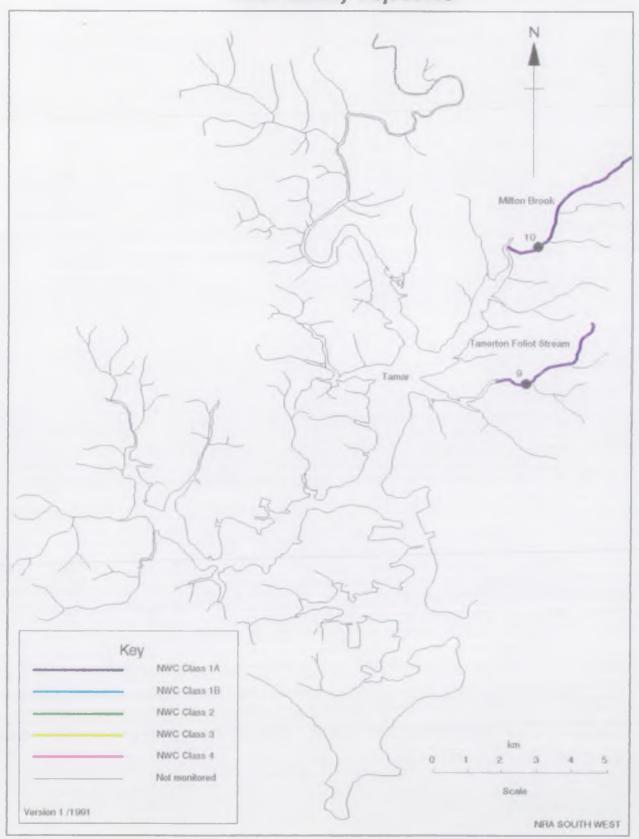
7. REFERENCES

Reference

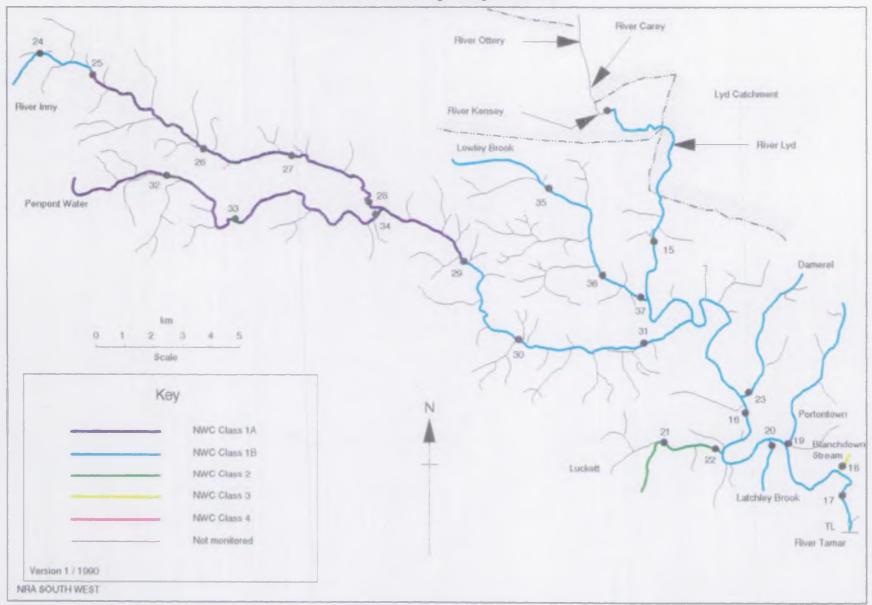
- 7.1 National Water Council (1977). River Water Quality: The Next Stage. Review of Discharge Consent Conditions. London.
- 7.2 Water Resources Act 1991 Section 190.
- 7.3 Alabaster J. S. and Lloyd R. Water Quality Criteria for Freshwater Fish, 2nd edition, 1982. Butterworths.

River Tamar River Quality Objectives



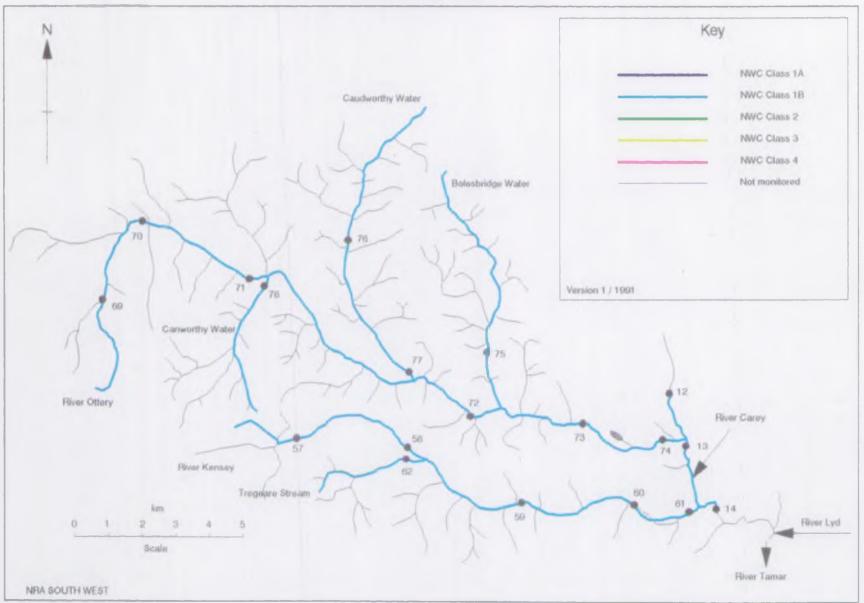


Inny Catchment River Quality Objectives



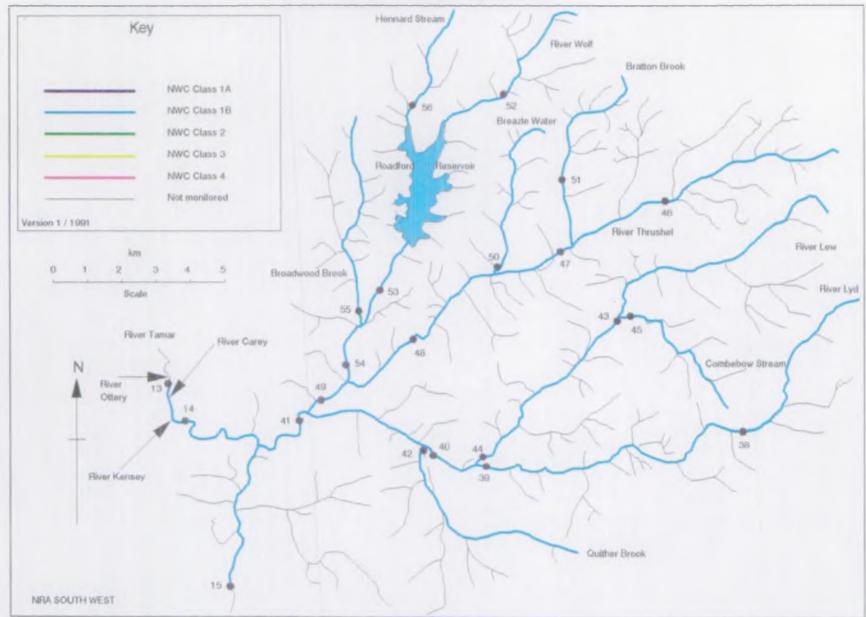
Appendix 8.1

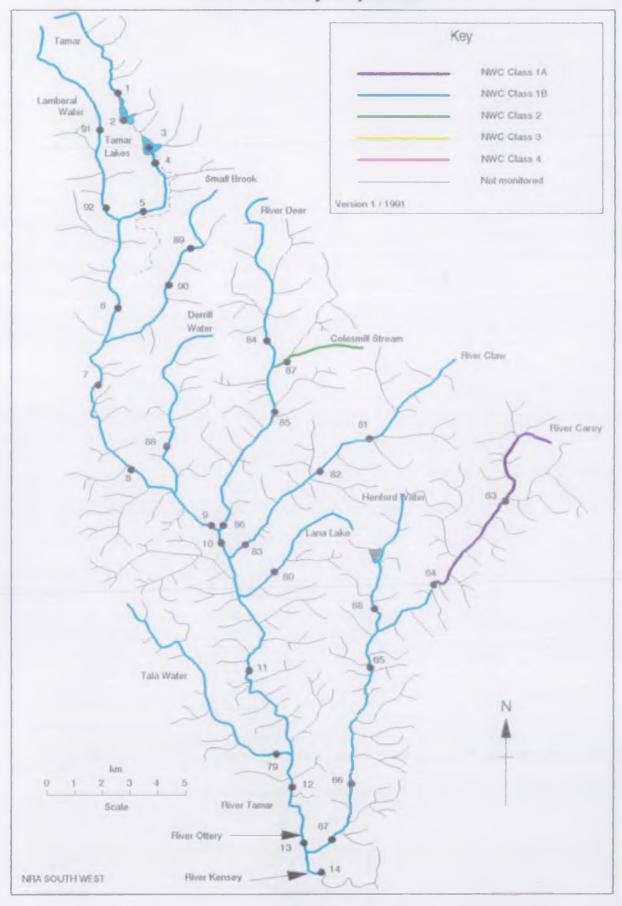
Ottery & Kensey Catchments River Quality Objectives



Appendix 8

Lyd, Thrushel & Wolf Catchments River Quality Objectives





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/1 O

Biochemical oxygen demand (5 day total ATU) as mg/1 O

Total organic carbon as mg/1 C

Nitrogen ammoniacal as mg/1 N

Ammonia un-ionised as mg/l N

Nitrate as mg/1 N

Nitrite as mg/1 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/1 SiO2

Sulphate (dissolved) as mg/l SO4

Sodium (total) as mg/l Na

Potassium (total) as mg/l K

Magnesium (total) as mg/1 Mg

Calcium (total) as mg/1 Ca

Alkalinity as pH 4.5 as mg/l CaCO3

NWC RIVER QUALITY CLASSIFICATION SYSTEM

River Class		Quality criteria		Remarks	Curren	t potential uses
		Class limiting criteria (95 percenti	1e}			
1A Good Quality	(i) (ii) (iii) (iv) (v)	Dissolved oxygen saturation greater than 80% Biochemical oxygen demand not greater than 3 mg/l Ammonia not greater than 0.4 mg/l Where the water is abstracted for drinking water, it complies with requirements for A2* water Non-toxic to fish in EIFAC terms (or best estimates if EIFAC figures not available)	(i) (ii)	Average BOD probably not greater than 1.5 mg/l Visible evidence of pollution should be absent	(i) (ii) (iii)	Water of high quality suitable for potable supply abstractions and for all abstractions Game or other high class fisheries High amenity value
18 Good Quality	(i) (ii) (iii) (iv)	DO greater than 60% saturation BOD not greater than 5 mg/l Ammonia not greater than 0.9 mg/l Where water is abstracted for drinking water, it complies with the requirements for A2* water Non-toxic to fish in EIFAC terms (or best estimates if EIFAC figures not available)	(i) (ii) (iii) (iv)	Average 800 probably not greater than 2 mg/l Average ammonia probably not greater than 0.5 mg/l Visible evidence of pollution should be absent 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 Class 1A and Class 18 together are essentially the Class 1 of 1 River Pollution Survey (RPS)		Mater of less high quality than Class 1A but usable for substantially the same purposes
2 Fair Quality	(i) (ii) (iii)	DO greater than 40% saturation BOD not greater than 9 mg/l Where water is abstracted for drinking water it complies with the requirements for A3* water Non-toxic to fish in EIFAC terms (or best estimates if EIFAC figures not available)	(i) (ii) (iii)	Average BOD probably not greater than 5 mg/l Similar to Class 2 of RPS Water not showing physical signs of pollution other than humic colouration and a little foaming below weirs	(i) (ii) (iii)	Maters suitable for potable supply after advanced treatment Supporting reasonably good coarse fisheries Moderate amenity value

3 Poor
(i) DO greater than 10% saturation
Quality
(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 abseronly 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

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 NHc. **
- (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 Surfac Water intended for Abstraction of Drinking Water in the Nember State.

* Ammonia Conversion Factors

 $\{mg\ NH_1/1\ to\ mg\ N/1\}$

Class 1A 0.4 mg NH₄/1 = 0.31 mg N/1

Class 18 0.9 mg NH₄/l = 0.70 mg N/l 0.5 mg NH₄/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
1в	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/1 0
4	Dissolved oxygen % saturation not greater than 10% BOD (ATU) greater than 17 mg/l 0
-	

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
-	95 percentile
Suspended solids	arithmetic mean

NWC RIVER CLASSIFICATION SYSTEM

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

SOLUBLE COPPER

Potal Hardness (mean) mg/l CaCO3	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 CaCO3	Statistic	Total Zinc ug/1 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: TAMAR

1991 Map	River	Reach upstream of	User	
Position	}	1	Reference	
Number		ļ	Number	Reference
] 	İ		
] !		} [
1	TAMAR	BUSES BRIDGE	R12L001	SS 2808 133
	TAMAR	INFLOW, UPPER TAMAR LAKE (INF. STRETCH)	!	
2	TAMAR	1	•	SS 2891 118
	TAMAR	INFLOW, LOWER TAMAR LAKE (UNMON. STRETCH)	•	
3	TAMAR	1		SS 2962 108
4	TAMAR	· · · · · · · · · · · · · · · · · · ·		ISS 2956 107
5	TAMAR	DEXBEER BRIDGE	R12L006	SS 2953 089
6	TAMAR	TAMARSTONE BRIDGE	R12L002	SS 2835 054
7	TAMAR	BRIDGERULE	R12L015	SS 2748 028
	TAMAR	CROWFORD BRIDGE	R12L003	SX 2873 994
	TAMAR	TAMERTON BRIDGE	R12L004	SX 3176 973
0.00	TAMAR		R12L013	SX 3190 972
	TAMAR			SX 3284 922
	TAMAR			SX 3444 883
	TAMAR	1 - · · · · · · · · · · · · · · · · · ·		SX 3483 867
	TAMAR			SX 3559 849
	TAMAR			SX 3683 803
,	TAMAR	HORSEBRIDGE		SX 4001 748
(TAMAR	GUNNISLAKE BRIDGE		SX 4332 722
	TAMAR	NORMAL TIDAL LIMIT (INFERRED STRETCH)	K12E003 	SA 4332 /22
18	BLANCHDOWN STREAM	PRIOR TO RIVER TAMAR	R12E004	SX 4325 729
	<u> </u>	i	li	
19	PORTONTOWN STREAM	PRIOR TO RIVER TAMAR	R12E034	SX 4143 737
	PORTONTOWN STREAM	TAMAR CONFLUENCE (INFERRED STRETCH)		
20	LATCHLEY BROOK	LATCHLEY	R12E028	SX 4088 737
į	LATCHLEY BROOK	TAMAR CONFLUENCE (INFERRED STRETCH)	!	
21	WCKETT	OTMIT	R12E016	SX 3700 738
22	LUCKETT	LUCKETT BRIDGE	R12E007	SX 3888 736
ļ	LUCKETT	TAMAR CONFLUENCE (INFERRED STRETCH)		l
23	DAMEREL STREAM	PRIOR TO RIVER TAMAR	R12E014	SX 3989 754
ļ	DAMEREL STREAM	TAMAR CONFLUENCE (INFERRED STRETCH)	!	
24	INNY	UPSTREAM OF DAVIDSTOW CREAMERY		SX 1533 870
25	INNY			SX 1701 865
26	INMY	•		SX 2061 B41
27 j	INNY			SX 2419 833
28 j	INNY	- · · · · · · · · · · · · · · · · · ·		SX 2706 817
29 j	INNY			SX 3002 798
30 j	IMMY	TRECARRELL BRIDGE	R12P013	SX 3202 771
31	IMMA	BEALS MILL BRIDGE	R12P006	SX 3588 770
i	INNY	TAMAR CONFLUENCE (INPERRED STRETCH)		

	15: To			0.5	07	0.0	89	90	91
	Distance		85	86	87	88		NWC	NMC
Length	from	Quality	NWC	NWC	NWC	NWC	NWC		
(km)	•	Objective	CTWRR	CTSS	CTASS	CIASS	CIASS	CIABB	CTUBBI
	(km).		!	!	!		!		! !
	1		!	!	ļ .	!	!	!	!!
	J		!	!	•	!	!	!	!
	<u> </u>		<u> </u>	!					3
4.2	4.2	1B	2	2	2	2	1B	1B	
0.2	4.4	1B	2	2	2	2	18	1B	3
1.7	6.1	18	2	2	2	1B	1B	2	2 !
0.4	6.5	18	2	2	2	18	18	ן ט	ן ט
0.9	7.4	18	2	2	2	1B	1B	1B	1B
0.1	7.5	18	2	2	2	1B	18	1B	
3.0	10.5	1B	2	2	2	1B	LB	1B	•
6.3	16.8	1B	2	1 2	1B	2	1B	2	1B
4.4	21.2	1B	2	2	2	2	2	1B	1B
5.4	26.6	18	2	1 2) 2	2	2	2	3 1
5.1	31.7	1B	2	2	2	2	2	2	3
0.3	32.0	18	2	2	2	2	2	3	3
7.0	39.0	1.B	2	1 2	2	2	2	3	
5.9	44.9	1B	[2	1 2	2	2	2 2	3	3
1.9	46.8	1B	2	2	2	2	2	3	3 3
2.5	49.3	1B	2	1B 1B	1B 1B	2	2	3	3 3
6.6	55.9	1B	2	,		2	2 1B	3	,
11.9	67.8	18	2	1B	18	2			3 3
9.0	76.8	18	2	12	2 2	1B	1B 1B	3 3	3 3
1.2	78.0 	1B	1 2	2 	!	1B 	ן מיז	3	
0.7	0.7	3 —	<u> </u>	<u>i</u> —	<u> </u>	3	3	3	3
	!		!——	!					╏═┰┰╏
6.3	6.3	1B	1B	1B	1B	7	2	2 2	I IA I
0.1	6.4	18	18	18 	1B 	2	2	4	^
1.7	1.7	1B	i——	i	i	i	i	2	2
0.2	1.9	1B	i	i	i	i	i	į 2	j 2 j
•	1		i	í	i :	i	i i	i i	i I
3.2	3.2	2	2	2	2	2	2	1B	1B
2.1	5.3	2	2	j 2	2	2		j., 2	2
0.4	5.7	2] 2] 2] 2	2	2	2	2
	<u> </u> _		!	!	!	<u> </u>		1 1 -	!!
5.4	5.4	1B	1B	1B	2	2	2	1B	18
0.1	5.5	1B	1B	18	2	2	2	18	18
-; -	! ,		1B		2	7	2	2	 3
1.4	1.4 3.4	1B 1B	1B	, 2 18	1 1B	2	1 2 1	2	3
2.0 4.7	3.4 8.1	18 18		1 1B	1 1B	1 2 1 1 B	1 1B	18	3 1
4.5	1 12.6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1B	1 18	1 1 B	1 2	1B	1B
4.3	16.9	124		1 1B	1 1B	1B	2	1B	3
4.3	21.2	1A	•	1 1B	1B	ÍВ	1B	1 1B	
4.6	25.8	1B	•	1 2	2	2	18	1B	18
4.3	30.1	1B	1B	2	2	2	1B	18	
2.4	32.5		1B	•	2	2	1B		
			,	, -					

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION

1991 RIVER WATER QUALITY CLASSIFICATION CATCHMENT: TAMAR

1991 Map Position		Reach upstream of	User Reference	National Grid	Reach Length	Distance from	River Quality	85 NWC	86 NWC	87	88 RWC	89 NWC	90	
Number		-4-	Number	Reference	(km)	source (km)	Objective 	Class	Class	Class	Class 	Class 	Class	Class
			ļ			<u> </u>	 		 	 	!	¦	 	<u> </u>
32	PENPONT WATER	TRELYN BRIDGE	R12P010	5X 2002 8286	4.0	4.0	1A	18	2	1 2	2	1 2	1B	1B
	PENPONT WATER	ALTARNUN BRIDGE	R12P007	SX 2233 8130	3.7	7.7	1 A	18	1B	1B	1B	1B	1B	1 2
,	PENPONT WATER	TWO BRIDGES	R12P008	SX 2695 8165	7.1	14.8	1A	1B	1B	1B	1B	1B	1B	1B
į	PENPONT WATER	INNY CONFLUENCE (INFERRED STRETCH)	 	!	0.2	15.0	1A	18	1B	1B 	1B 	18 	18 	1B
	LOWLEY BROOK	LANDLAKE BRIDGE	,	SX 3287 8235	3.7	3.7	18	18	1B	1B	2	2	3	2
36	LOWLEY BROOK	LANDUE BRIDGE	,	SX 3473 7970	4.0	7.7	1B	1B	18	1B	2	2	[2	1B
37 (LOWLEY BROOK	(LOWLEY BRIDGE	R12E006	SX 3593 7873	1.8	9.5	1B	1B	1B	1B	1 2	1 2	1B	1B
	LOWLEY BROOK	TAMAR CONFLUENCE (INFERRED STRETCH)	!	! !	0.6	10.1	1B	18 	1B 	1B 	2 	2 	1B 	1B
	LYD	A386 ROADBRIDGE LYDFORD	,	SX 5205 8446	6.5	6.5	18	1A	2	2	2	2	1.0	1A
	LYD	GREENLANES BRIDGE		SX 4436 8325	9.5	16.0	1B	11	l IX	11	17	1B	1B	1B
	LYD	SYDENHAM BRIDGE		SX 4288 8388		17.9	1B	1A	1A	1B	1B	1B	LA 18	1A 1B
	LYD	LIFTON BRIDGE	R12F002	SX 3892 6480	5.1	23.0	1B	1B	1B	18	1B 1B	1 1B	1 1B	1 1B
ļ	LYD	TAMAR CONFLUENCE (INFERRED STRETCH)	 	1 [] 2.2 	25.2 	18 	18	1B 	18 	15	15 _	15 	1 10
42	QUITHER BROOK	PRIOR TO RIVER LYD	R12F013	SX 4265 8398	6.7	6.7	18	18	1B	18	18	1B	1A	1A
	TEM	COMBEDOW BRIDGE		SX 4853 8793	8.4	8.4	1B	18	18	1B	1B	1B	1A	I IA
,	LEW	PRIOR TO RIVER LYD	R12F004	SX 4410 8340		15.7	1B	1B	(1B	1B	1B		1 14	2
1	LEW	LYD CONFLUENCE (INFERRED STRETCH)	! !		0.1	15.8 	18 	18 	1B 	1B 	1 B 	18 _	1A 	1 4
45	COMBEBOW STREAM	ROAD CULVERT NEAR COMBEBOW QUARRY	R12F010	SX 4881 8798	5.2	5.2	1B	1B	i	1	i —	-	1B	1 2
!	COMBEBOW STREAM	LEW CONFLUENCE (INFERRED STRETCH)	İ	!	0.3	5.5	18	1B	!	1	1	1	1B	2
46	THRUSHEL	RIVERMEAD BRIDGE		SX 4988 9128	5.9	5.9	- 1B	1B	2	2	2	1B	1B	1B
47	THRUSHEL	WRIXHILL BRIDGE		ISX 4655 8985		10.2	1B	1B	1B	1B	1B	18	1 1B	1 2
	THRUSHEL	STOWFORD BRIDGE	•	SX 4280 8735	-	16.1	1B	1B] 2] 2	1 2	3		3
	THRUSHEL	TINHAY BRIDGE	R12G004	SX 3938 8538	,	20.9	1 B	18	1B	18	1B	1B	1B	1 2
	Thrushel	LYD CONFLUENCE (INFERRED STRETCH)] 1	! !	0.5 	21.4	18 	18 	1B 	1B 	1B	1B	. 1B 	1 2
	BREAZLE WATER	PRIOR TO RIVER THRUSHEL	R12G010	SX 4476 8917	5.6	5.6	1B	1B	1 2	18	1B	1B	1B	1 3
	BREAZLE WATER	THRUSHEL CONFLUENCE (INFERRED STRETCH)	 	! !	0.1 	5.7	18 	1B] 2]	1B 	1B	18 		3
51	BRATTON BROOK	BRATTON CLOVELLY	R12G009	SX 4676 9202	4.1	4.1	18	<u> 2</u>	 3	3	2	18	7.4.4	18
ļ	BRATTON BROOK	THRUSHEL CONFLUENCE (INFERRED STRETCH)	!	!	2.0	6.1	1B	2 	1 3	3	2	1B'	- , 1X	18
52	MOLE.	WEEK'S MILL BRIDGE	R12G005	SX 4461 9423		3.8	18	1B	18	1B	18	1B :	1 2	1B
į	WOLF	INFLOW, ROADFORD RES. (INFERRED STRETCH)	1	1	1.6	5.4	1B	1B	1B	18	1B	1B	2	1B
Ť	WOLF	ROADFORD RESERVOIR (UNMONITORED STRETCH)	1	1	3.6	9.0	ļ 1B) 1B	1 B	1B	1B	1B	2	ן ט
53	WOLF	REXON BRIDGE	•	SX 4133 8885	•	10.9	1B	1B	1B	1B	1B	18	[1B	1B
	Transit to	PRIOR TO RIVER THRUSHEL	1 R12G007	ISX 4031 8629	3.6	14.5	1 B	18	1 2	1 B	18	1 B	1B	3
54	MOLE	(THRUSHEL CONFLUENCE (INFERRED STRETCH)	1000.	1000	0.4	14.9	1 B	1B	2	i 1B	1B	Í 1B	i 18	i 3

MATIONAL RIVERS AUTHORITY - SOUTH WEST REGION

1991 RIVER WATER QUALITY CLASSIFICATION

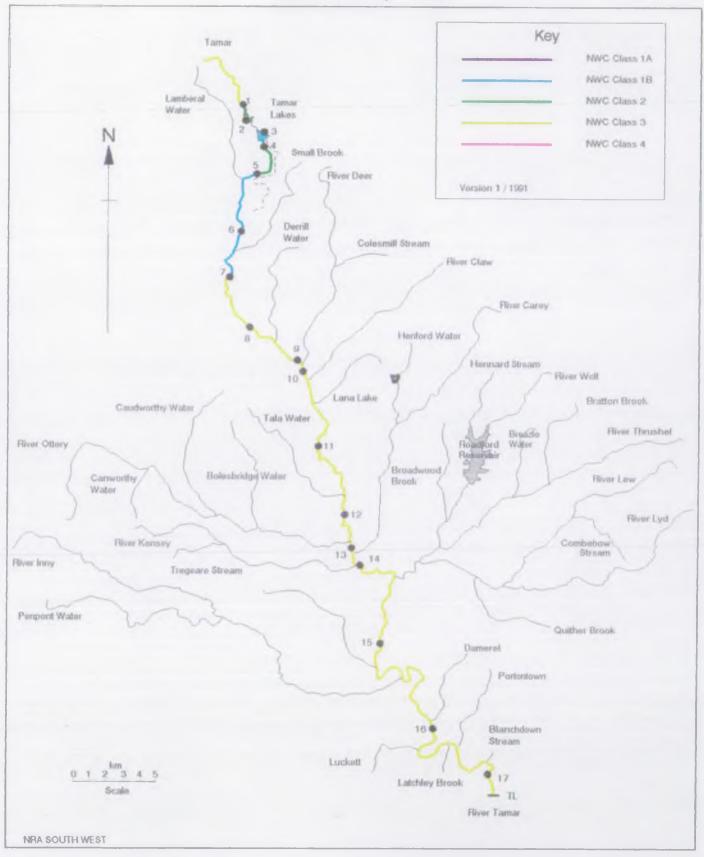
CATCHMENT: TAMAR

11001 14	194	Reach upstream of	User	National	Reach	Distance	River	85	86	87	88	89	90	91
1991 Map	•	Reach upstream or	Reference	•	Length	from	Quality	NWC	NWC	NWC	NWC	NWC	NWC	INC
Position	!		Number	Reference	()km)		Objective	Class	Class	Class	Class	Class	Class	Class
Number 					,,,,,	(km)			 	i i		 	į	<u>i</u>
<u> </u>	! !			, 1		į	i I		i !	i 	i	i !		
55	BROADWOOD BROOK	KELLACOTT BRIDGE	R12G012	SX 4066 8799	5.9	5.9	18	2	2	1 2	18	1B	1B	3
	BROADWOOD BROOK	WOLF CONFLUENCE (INFERRED STRETCH)	İ	[]	0.4	6.3 	1B 	2	[2 	1 2 	18	1B	1B	(3
56	HENNARD STREAM	PRIOR TO ROADFORD	R12G096	SX 4250 9390	3.7	3.7	1B	 -	18	18	1B	<u>1B</u>	1	1A
	HENNARD STREAM	ROADFORD RES. INFLOW (INFERRED STRETCH)			0.5	4.2	18] 	 	! !	 	1	202	l la
	KENSEY	BADGALL BRIDGE	R12N003	SX 2317 8692	2.4	2.4	1B	1A	 3	1B	1B	1B	1 2	1 2
•	KENSEY	BADHARLICK BRIDGE	R12N001	SX 2675 8643	4.2	6.6	1B	1B	2	1B	18	2	2	1.8
•	KENSEY	TRUSCOTT BRIDGE	R12N004	SX 2987 8499	4.0	10.6	1B	1B	1 2	2	2	2	1 2	1B
60	KENSEY	NEWPORT		SX 3270 8511		13.9	18	1B] 2	1B	18	1 B	3] IA
j 61	KENSEY	ST. LEONARDS BRIDGE	R12N002	SX 3517 8478		16.7	1B	1B	1B	18	1B	1B	2	18
į	KENSEY	TAMAR CONFLUENCE (INFERRED STRETCH)	1	1 i	0.1	16.8	1B	1B	1B 	18 	1B	1B 	2	1B
62	TREGEARE STREAM	RED DOWN BRIDGE	R12N006	SX 2671 8628	3.4	3.4	1B		<u> 2 </u>	1B	1B	2	2	18
1	TREGEARE STREAM	KENSEY CONFLUENCE (INFERRED STRETCH)		[0.4	3.8	1 1B	!	9	1B 	18	2 	[2 	18
63	ICAREY	HALWILL BRIDGE - QUODITCH	R12H006	SX 4202 9846	3.6	3.6	1A	2	2	2	1B	1B	1 2	2
	ICAREY	ASHMILL BRIDGE	R12H001	SX 3935 9534	4.7	8.3	j 1A	2	j 2	2	1B	18	1B	1B :
	CAREY	MIDDLE BRIDGE VIRGINSTON	R12H007	SX 3710 9263	4.0	12.3	1B	2	2	1B	2	2	2	2
66	CAREY	BOLDFORD BRIDGE		SX 3642 8828	5.1	17.4	1B	2] 2	2	2 .	ј 1В	2	2
67	CAREY	HEALE BRIDGE	R12H002	SX 3600 8631		20.1	1B	2	1 2	2	2 '	1B	1B	1B
į	CAREY	TAMAR CONFLUENCE (INFERRED STRETCH)	!	; 	1.4	21.5	} 1B] 2] 2 j	2 	2	18 	1B	1B
68	HENFORD WATER	HENFORD	R12H005	SX 3735 9472	4.3	4.3	19	2	1 2	1 2	2	2	1 2	1B
	HENFORD WATER	CAREY CONFLUENCE (INFERRED STRETCH)		j 	1.2	5.5 	1 1B	2	1 2	1 2	2	[2 	1 2	18
69	OTTERY	OTTERHAM MILL	R12M004	SX 1745 9095	6.0	6.0	1B	2	3	2	2	2	3	2
	OTTERY	TRENGUNE BRIDGE	R12M005	SX 1889 9328	3.5	9.5	(1B	2	1 3	1 2	18	1B	1B	1B
71	OTTERY	CANWORTHY WATER BRIDGE	R12M001	SX 2240 9173	5.0	14.5	1B	2	2	2	18	1B	1B	1B
,	OTTERY	HELLESCOTT BRIDGE		SX 2855 8777	10.6	25.1	(1B	1B	1 2	1 2	1B	1B	1B	18
73	OTTERY	YEOLMBRIDGE		SX 3182 8738	4.1	29.2	1B	1B	2	2	2	1B,	1.18	2
74	OTTERY	HAM MILL BRIDGE	R12M007	SX 3445 8682	3.4	32.6	1B	1B	2	1 2	2	1B	1B	1B
į	OTTERY	TAMAR CONFLUENCE (INFERRED STRETCH)	1		0.4] 33.0	1B	1B	2 	2 	2	1B	1B	1B
75	BOLESBRIDGE WATER	200 METRES D/S OF MAVARING BRIDGE	R12M012	SX 2895 8920	8.0	8.0	18	2	 3 	1 3	2	3	* 3	3
	BOLESBRIDGE WATER	OTTERY CONFLUENCE (INFERRED STRETCH)	-	1 1	1.9	9.9	1B 	2	3 	3	2] 3 '1	3	3
76	CAUDWORTHY WATER	CAUDWORTHY BRIDGE	R12M010	SX 2470 9263	5.7	5.7	18	2	i 3	2	18	1B	18	1B
	CAUDWORTHY WATER	PRIOR TO RIVER OTTERY	R12M011	SX 2676 8887		11.6	j 18	2	1 2	2	1B	1B	1 1B	1 3
	CAUDWORTHY WATER	OFTERY CONFLUENCE (INFERRED STRETCH)	1]	0.1	11.7) 1B	2) 2]	1 2 1	1B) 1.B) 1B) 3 i
78	CANWORTHY WATER	PRIOR TO RIVER OTTERY	R12M008	SX 2240 9147	4.8	4.8	1B		3	18	18	2_	3	18
	CANWORTHY WATER	(OTTERY CONPLUENCE (INFERRED STRETCH)	1	(0.4	j 5.2	1B] 3 	1B 	1B	2 	3 	1.B
79	TALA WATER	BRIDGETOWN	R12J006	SX 3418 8913	9.3	9.3	1B	2	2	2	2	2	2	1 2

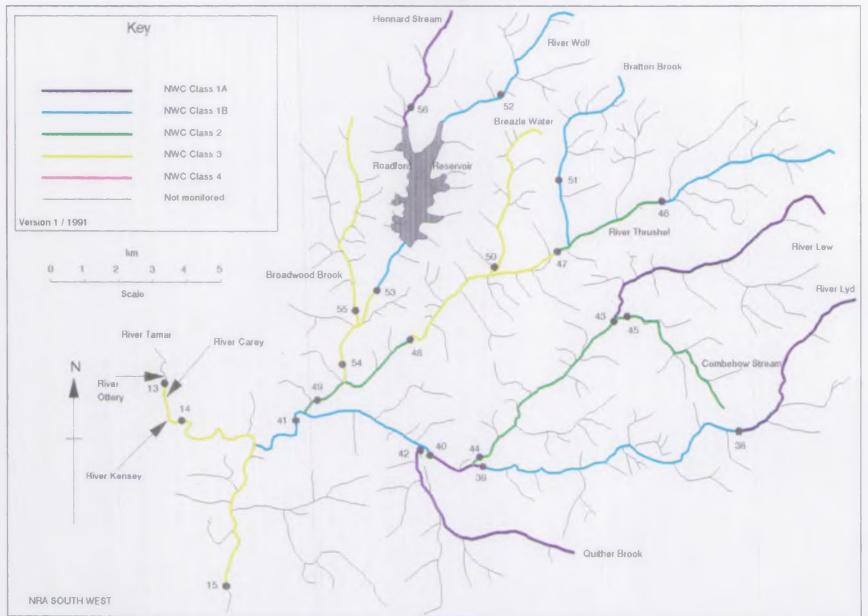
NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION 1991 RIVER WATER QUALITY CLASSIFICATION CATCHMENT: TAMAR

1991 Map Position Number		Reach upstream of	User Reference Number	National Grid Reference	Reach Length (km)		River Quality Objective		86 NWC Class	87 NWC Class	88 NWC Class	•	90 NWC Class	•
		÷				(km) _, 	0	! !] 	 	
	TALA WATER	TAMAR CONFLUENCE (INPERRED STRETCH)	-		0.2	9.5	18	2	2	2	2	2	2	2
80	LANA LAKE	LANA BRIDGE	R12J005	SX 3407 9591	3.1	3.1	1B	2	2	3	3	3	2	2
	IANA IAKE	TAMAR CONFLUENCE (INFERRED STRETCH)			1.8	4.9 ∤	1B) 2 }	1 2 1	3 	3	1 3 1	2	2
81	CLAW	CLAW BRIDGE	R12K016	SS 3746 0071		4.2	1B	<u> </u>	2	2	2	2	2	2
82	CIAW	CLAWTON BRIDGE		SX 3533 9932		7.1	(1B	2	2	1 2	2	2	2	1B
83]	CLAW	TETCOTT BRIDGE	R12K002	SX 3267 9692		11.4	1 1B	2	2	2	2	2	3	1B
ļ	CLAW	TAMAR CONFLUENCE (INFERRED STRETCH)	- !	!	0.7	12.1	1B	2	2 	2	1 2	2 	3	1B
84	DEER	RYDON BRIDGE	•	SS 3356 0415		6.8	1B	2	2	2	2	2	2	1B
85	DEER	WINSCOTT BRIDGE		SS 3386 0142		10.6	1B	[2	2	[2	2	2	1B	1B
86	DEER	DEER BRIDGE	R12K005	SX 3195 9741	•	16.6	1B	[2	1 2	2	2	1 2	2	1B
I	DEER	TAMAR CONFLUENCE (INFERRED STRETCH)	!		0.2	16.8	1B] 2 	1 2	2	2	2	2	18
87	COLESMILL STREAM	100 METRES BELOW HOLSWORTHY STW	R12K007	ss 3387 0317		3.3	2	2		 	i	i	2	2
ļ	COLESMILL STREAM	DEER COMPLUENCE (INVERRED STRETCH)			0.2	3.5	2] 2 	 	1	 	ļ	1 2	1 2
88	DERRIL WATER	DUALSTONE BRIDGE	R12L005	ss 3013 0058	5.2	5.2	1B	 2	i—	i	2	2	2	2
!	DERRIL WATER	TAMAR CONFLUENCE (INFERRED STRETCH)			2.2	7.4	1B	2 	[-	2	2 	2	2
89	SMALL BROOK	HEADON BRIDGE	R12L011	SS 3100 0731	3.7	3.7	18		;	\ 	3	1 3	3	1 2
90 j	SMALL BROOK	YOULDON BRIDGE	R12L008	SS 2995 0528		6.2	1B	l	1	1 -	3	3	3	[3
1	SMALL BROOK	TAMAR CONFLUENCE (INFERRED STRETCH)			2.9	9.1	j 18	[! 1	1	1 3 1	3 	3	3
91 i	LAMBERAL WATER	FORDA	R12L010	SS 2771 1119	,	5.3	1B	2	2	2	2	2	1B	18
92	LAMBERAL WATER	MORETON POUND BRIDGE	R12L007	SS 2758 0893		8.5	18	2	2	2	2	2	2	[1B
	LAMBERAL WATER	TAMAR CONFLUENCE (INFERRED STRETCH)	1	i i	1.1	9.6	l 18	1 2	1 2	1 2	1 2	1 2	1 2	1 19

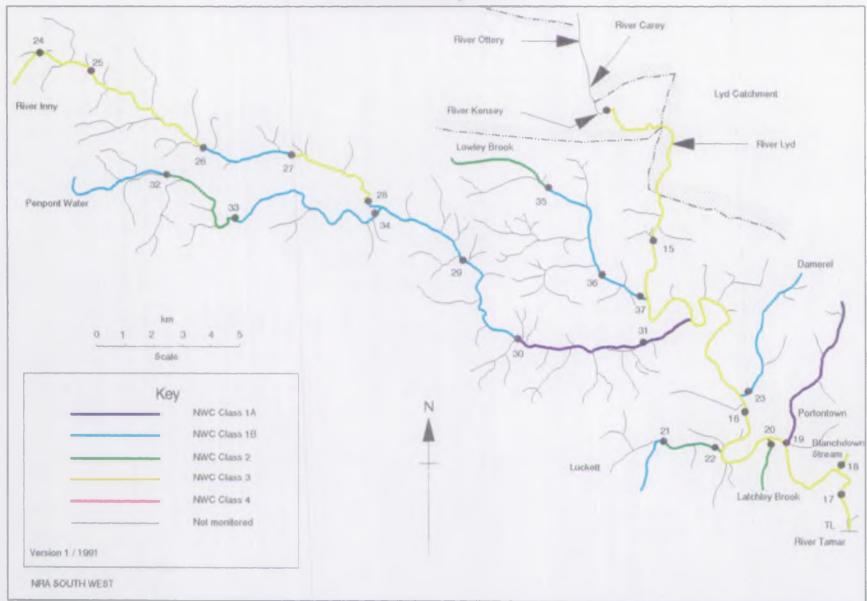
River Tamar Water Quality - 1991



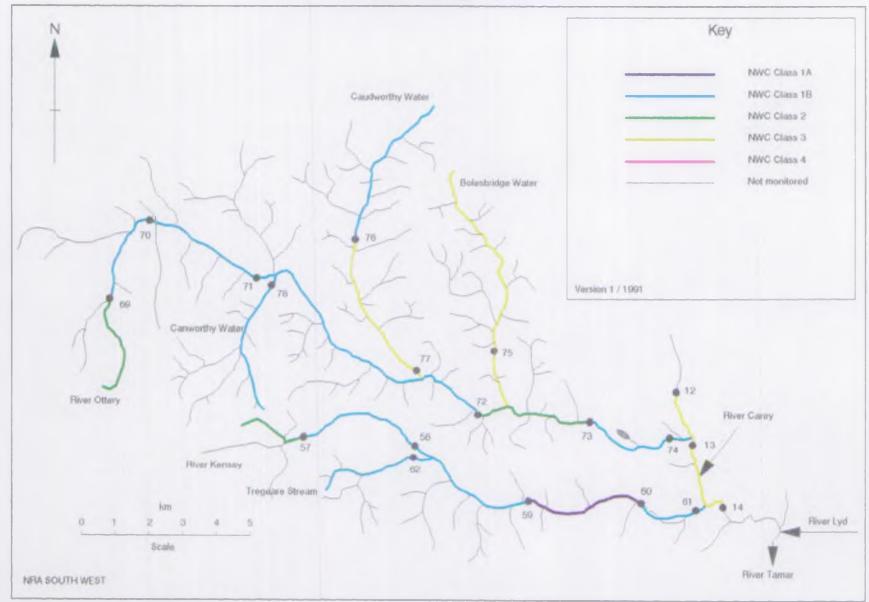
Lyd, Thrushel & Wolf Catchments Water Quality - 1991



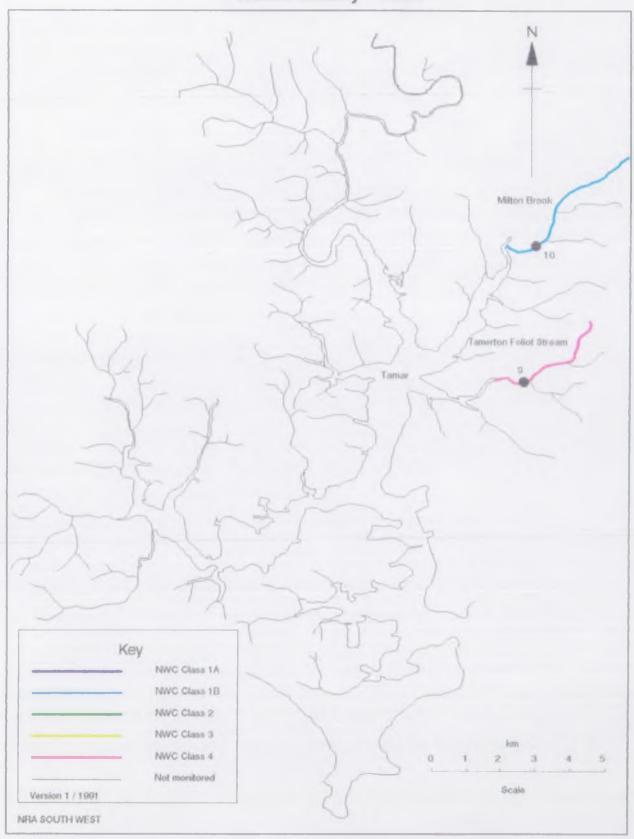
Inny Catchment Water Quality - 1991



Ottery & Kensey Catchments Water Quality - 1991







NRICHNAL RIVERS AUTHORITY - SOUTH WEST REGION

1991 RIVER WITTER QUALITY CLASSIFICATION

CNICULATED DEDERMINAND STRITISTICS USED FOR QUALITY ASSESSMENT

CATCHENT: THER

River	Reach upstress of	User	ROD			Outout	ated Deta	aumunand	Statust	cics use	rd for O	uality	AGSAGSTIE	nt.									
	Ţ.	Pet.	!!		7	1		l 75		~~	(%)		(ACCUT)	 maks1) Ithia	Ameria	 c=	olida] Model	Chepper	 ඇය.	al Zinc
		Number		•	LOWER		Upper		rature		(4) 5kile	•		•	95kile	•	95kile	•	Mean		957110		s 95%il
				Class	Stile	CLASS	95kile	Class	ADACTIN)		>€LLE	 	s 95%ile	1 (1923	ADELLE .	i i	336778	Care	LEGI		· //		9 7.AL
		_ _		<u> </u>		<u> </u>		! !				 		ļ 		<u> </u>		<u> </u>		<u> </u>		l 	
DYPAR	BUSES ERIDGE	R1.21.001		1A	6.7	1A	7.5	I IA	15.9	18	77.8	18	4.3	3	4.625	IA	0.013	1	9.5	1A	5.0	IA	20.0
DMPR	UPPER TRYPR LANE	R121017	•	1)	7.1	IA	8.6	1A	19.8	2	50.7] 2	5.3	18	0.550	1A	0.010	IX	16.3	l IX	5.8	IA IA	17.2 28.4
inmar	ILONER THYPR LANE	R12T018		1.	6.6	1A	8.0	I IX	20.0	18	69.4	1B	4.0	1A	0.164	l la	0.010	1A	15.1 15.0	1A	5.6	I IA	26.9 11.7
DAMPAR	POOTERUDE HELDW LONER THYPR LANE	R12T009	•	1A	6.4	1A	7.6	lA	19.5	18	69.4	1B	3.5	IA	0.156	l IX	0.010	1A		IA	5.7	I IA	9.0
DVAR	DECEDER BRODGE	R12L006	. —]]X	6.5	lA	7.6	IA	16.6	18	74.7	2	5.2	1B	0.425	l IY	0.010	1A	14.2	1 17	9.3 10.8	•	
TAPAR	THERETONE HEIDE	R121002		1A	6.6	I IA	7.7	IA	17.0	18	72.4	1B	4.3	I IB	0.326	l m	0.010	1 \	23.5	l IY		1A	134.
TAMAR	HROOGERULE]R121015		1A	6.8	1A	7.8	Į 1A	17.1	1.18	71.2	118	4.4	11	0.309] 1A	0.010	IA	18.9	l IV	7.0	I IA	97.7
THAR	CONTORD BRIDGE	R1.21.003		13	6.8	1A	7.8	Į IA	17.8	18	75.7	[2	5.6	118	0.485	1	0.010	3	25.4	2	96.1		938.
TAPAR	TOMERION BRIDGE	RL21004	•	11	6.8	IA	7.9	I IA	17.9	1.8	68.7	2	5.8	13B	0.481]]A	0.010	3	26.1	1	7.0	l iv	23.8
TAMER	HELOW CONFILENCE WITH RIVER DEER	RLZ1013		1A	6.9	1A	8.0	I IA	17.6	1.13	65.2] 2	5.3	118	0.356	IA	0.010	3	31.9	1x	7.0	ΪŻ	27.0
TMAR	BOYTON BRIDGE	R120001	•	11	6.8	I IA	7.7	1A	18.3	1B	72.5	2	5.7	118	0.376	114	0.010	3	28.3	או	7.0	2	454.
TAYAR	DRAGON BRIDGE	R123002		1.4	6.9	1A	8.1] IA	18.4	113	75.7	2	8.1	13	0.563	1)	0.010	3	30.8	13	9.9	1	29.9
TAMAR	NUMBERGEOLE	RL2J003		11	6.7] IA	7.9	1A	17.8	18	74.8	2	5.4	18	0.495	1x	0.010] 3	30.2	IA	8.4	IA	40.8
TEMPAR	ROLSON BRIDGE	R123004	•	1A	6.6	1A	7.7	1A	17.9	18	75.8] 2	5.4	118	0.494	1A	0.010	3	33.1	IA	10.0	1A	49.8
TAPAR	GENIUE BUIE	RLZE001	•	1A	6.8	1A	7.7	I IA	17.7	118	74.8	1B	4.9	118	0.370	17	0.010	3	37.5	1A	11.9	IA	154.
DIAR	HERSEHRODE	RL25002	• —	1A	6.9	IA	7.8	I IA	17.7	1A	82.9	1B	4.7	1B	0.321	1A	0.010	3	29.9	I IA	10.0	lA	44.0
INFR.	GUNESIACE BRIDGE	RL2E003	18 	11	6.9	14	7.7	l IX	19.1	l JA	83.5	128 	4.2	j IA	0.249	l IX	0.010	3 	28.8	2 	63.3	j JA I	52.7
BLANCHOWN STREAM	PRIOR TO RIVER THAR	RL2E004	3	3	3.3	1A	7.3	1A	16.3	1A	81.0	3	11.3	2	1.475	JA.	0.010	Į),	5.4	2	12172.0	3	2587.
PORTONIONI STREAM	PRIOR 'ID RIVER 'INNR	R125034	18	13.	6.9	1A	7.8	1A	16.2	1A	89.0	IÀ	1.8	1A	0.050	Į,	0.010	12	3.8	-	1.4.1	-	-
TYLCHTEX BLOOK	TMOMEN	R1.20028	1B	13.	6.2	IA	7.4	13.	16.7	1A	85.0	1A	2.2	1A	0.077	1,4	0.010	18	7,8	. 2	154.9	2	524.
LUCKET .	OLDMILL,	R1.2E016	2	13.	6.7	1A	7.7	JA	16.1	19	79.5	18	3.1	L IA	0.208	1A	0.010	12	8.5	14	24.0	IA	126.
шскетт	ILLOCAT BRIDGE	RL25007	2	אנ	6.9	1A	7.8	 1 A	14.9	11.	83.8	į 1B	3.4	j 1A	0.165	I IA	0.010	14	9.0	j 2	76.7	j 2	620.
TOLETHA COMPANI		 R12E014	10	13	7.1	 la	8.1	1 18	16.4		80.7	 1B	3.7	1 <u>1</u> B	0.340	128	0.010	 12	12.0	 18	30.0		162.
DMERET STREM	PRIOR TO RIVER THYAR		 			<u> </u>	0.1	<u> </u>	20.4				4. 7				0.010	<u> </u>			30.0		
13.50	INSTREM OF DANDERON CHEMESA	R1,27001	<u>1B</u>	11	6.4	1A	7.7	1A	15.0	18	68.3	1 2	6.7	2	1.711	13.	0.010	3	40.9	1A	→ 8.0	IA	97.8
DAM.	LIEMINON BRIDGE	R12P002	18	1A	6.5	la	7.9	1A	15.3	1.8	66.6	3	10.3	1B	0.665	1A	0.013	12	24.4	IA	+ 9.7	IA	30.7
II4A	ST. CLEINER HRIDGE	R1,2P003	ן אנ	1A	7.0	IA	8.1	1A	15.2	18	76.8	2	6.5	118	0.447	14	0.010	3	26.1	1A	, 10.0	אנו	59.0
IMA.	GIPELETT'S MILL	RLZP012	14	124	6.8	1A	8.1	1A	16.0	1A	64.1	1B	4.0	1A	0.146	l la	0.010	Į JA	13.9	1A	8.0	11	23.0
INNY	TWO BRIDGES	R1.2P004	1A	14	6.9	IA.	8.1	j IA	16.5	1B	65.8	j 1,8	3.4	j 1A	0.250	1A	0.010	3	27.2	13	9.1	j 1A	37.2
INNY	DESCRIPTION BRIDGE	RL2P005	IA	1A	6.9	j 1A	7.9	j 1A	16.4	18	76.7	J 18	3.3	j 1A	0.136	, XI	0.010	1.3	13.1	18	6.0	Į JA	30.0
INY	THOUSE THE THE	P12P013	18	12	6.8	į 1A	7.9	į JA	16.3	1A	85.4	18	3.1	j ja	0.180	IA.	0.010	אנ	14.9	14	15.0	I IA	57.0
INX	HENE MILL HOUSE	[R1.2P006	18	1A	6.9	1A	8.1	17	17.2	1A	80.4	14	2.6	į 1A	0.108	IA.	0.010	1)	14.6	ÍÀ	14.9	1A	105.
PENEURI WEITER	DEIM BRIDE	R1.2P010	17	1A	5.7	1 1 1A	7.3	IA.	16.5	1B	79.6	1B	3.3	 1)	0.126		0.010		9.6	1A	4.0	IA.	15.0
PENFONT WRITER	ALDREN BRIDGE	RL2P007		1A	6.2	i ix	7.7	1A	15.6	14	82.0	1 1	3.0	i ia	0.103	IA	0.010	12	8.9	2	27.0	I IA	50.0
PENPONI" WPODER	THO BRIDGES	R12P008			6.6	Į,	7.8	17	16.2	18	74.6	18	3.1	12	0.122	ΪÀ	0.010	IÀ	11.5	ΙĀ	7.3	Į,	52.5
LOALEY BROOK	LANDLAKE BRIDGE	_ [R12E005	119	la	7.1	 1A	8.0		15.9	1A	82.0		6.1	2	0.763	l la	0.010	1A	24.0	 1A	18.0		67.0
LONLEY BROOK	LANGE BRIDGE	R12017		IA.	7.0	i ix	7.9	I IA	15.6	1B	79.9	118	4.9	118	0.319	11.	0.010	I IX	13.8	1 1	11.0	IX.	45.0
LONLEY BROOK	LOWEY BRIDGE	R12E006			7.0	i ix	8.0	12	15.5	1B	76.6	119	7.7	1 40	0.246	I IA	0.010	, <u></u>	٠.٠	1	44.4	***	39.8

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION 1991 RIVER WICER CLALITY CLASSIFICATION

CNICLEMEN DESCRIPTION STRUTSTICS USED FOR QUALITY ASSESSMENT

CATCHENT: THER

River	Reach upstream of	User	RQO			Orlan	ated Det	erminer	d Statis	tics us	ed for Q	mlity	Assessme	MC.									
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		_ j												<u> </u>									
LXD	A386 RONDRIDGE LIZERCED	R12F012	1B	•	5.3	j 1A	7.6	Į la	15.7	IA	88.7	IA.	2.9	Į 1A	0.088] 1A	0.010	12	10.0	11	4.0	1A	11.8
סגנו	GREENLANES BRIDGE	R1.2F001	1B	IA	6.5	1A	7.5	l la	16.7	1A	89.4	18	3.3	IA	0.180	l IX	0.010	1A	3.1	IX	6.0	11	7.0
סצו	SYDENIAM HODGE	RL2F011	1,B	1A	6.9	JA	8.0	IA.	16.4	l la	92.7	l la	2.8	1A	0.100	IA	0.010	18	5.0	1A	7.0	1A	16.0
OIXI	LIPTON BRIDGE	jR1.2F002	118	j ja	6.8	14	7.7	1	18.2	IA	91.9	18	3.4	la	0.169	IA	0.010	1A	6.7	וא	6.9	1 A	75.6
QUITHER BROOK	PRIOR TO RIVER LYD	R12F013	18	IA	6.9	IA	7.7	1A	16.0	1A	85.3	14	2.3	1A	0.081	1A	0.010	77	8.9	14	4.0	1A	7.0
LEW	COMPESSON BRIDGE	R1.2F003	1B	I JA	6.8	lA	7.8	IA.	16.2	 1A	89.8	1A	2.7	<u> 1A</u>	0.185	1A	0.010	1A	5.4	1A	5.0	IA.	11.0
TEM	PRECER TO REVER LICE	R1.2F004	118	j 1A	6.7	į 1A	8.1	Į JA	16.6	1A	90.0	JA.	2.7] 1A	0.122	1A	0.010	18	6.9	2	41.5	Į JA	102.5
COMPEDION SUBSAM	ROAD CULVERT NEAR COMBESION CURREN	R12F010	1B	1A	6.7	13	7.7	1A	14.6	1A	87.0	1A	2.8	JA.	0.270	11.	0.010	1A	15.8	2	62.0	114	158.0
THRESHEL	RIVERMEND ERIDGE	R120001	118	LA	6.7	1A	7.7	1A	15.8	18	64.8	1B	4.1	18	0.675	12	0.010	1A	9.9	11	6.4	1A	15.0
TRUFEL	MIDSHILL HRDGE	R1.20002	•	11.	6.7	i 1A	7.6	l la	15.6	1.B	70.0	2	5.5	1B	0.635	i 1A	0.010 j	1A	7.1	Ì IA	21.0	i 1A	10.9
TRISEL	STONFORD BRIDGE	R120003	1В	1A	6.8	į 1A	8.0	į įa	18.7	1A	80.5	2	8.6	į 2	1.150	j 3	0.032 j	3	33.0	i 1A	7.9	ואו	11.9
TREEL	LIMPA BUILTE	R120004	18	ĮA.	6.7	1A	7.7	13.	18.2	1A	84.7	2	5.6	į 2	0.730	į 1A	0.010	18	23.0	IA.	8.3	IA.	21.3
HERAZLE WRODR	PRICE TO RIVER THRUSIEL	RL20010	18	1A	6.8	1A	7.7	124	15.6	18	74.5	3	14.4	2	0.797	1A	0.010	3	37.0	1A	6.0	IA.	19.0
HRATTON BROOK	BACTON CTOASTTA	R120009	18	1A	6.8	1A	7.6	14	14.8	1A	81.9	1.8	4.1	1A	0.259	1A	0.010	1A	12.1	1A	5.0	IA	17.0
WOLP	WEEK'S MILL BRIDGE	RL20005	18	1A	6.5	1A	7.6	13	16.5	18	79.3	18	3.5	18	0.403	LA.	0.010	1A	9.5	IA.	12.8	12	93.0
VOLF	REMEN BRIDGE	R1.20006	18	Į JA	6.6	j 1A	7.7	11	18.3	18	75.4	18	3.1	į 13	0.360	IA.	0.010	1A	9.7	į IA	6.3	l la	14.3
WOLP	PROCE TO RIVER THRUSEL	RL23007	18	JA.	6.7	j ta	7.7	1X	17.8	1A	82.4	19	4.1	I IA	0.277	אנ	0.010	3	25.2	Į JA	15.5	18	39.3
ERCADICOD ERCOK	NELLACOIT BRIDGE	R120012	13	1A	6.8	1A	7.6	1A	15.5	18	78.1	2	7.2	1A	0.270	12	0.020	3	34.5	1A	4.0	13	42.0
HENNAD STREEM	PRIOR TO ROALFORD	R1.20096	1В	1A	6.7	1A	7.5	12	16.1	18	63.B	1A	2.8	1A	0.099	1A	0.010	12	7.0	13	4.0	13	14.0
KENSEY	BAUGALL BRIDGE	RL2N003	18	18	6.6	1 1 1A	7.6	18	14.8	1A	86.5	1B	3.5	IA.	0.175	12	0.010	1A	9.6	1A	12.0	2	262.3
KENGEY	BALLANGLICK PRIDGE	RL2N001		1A	6.7	1A	7.6	1A	15.0	1A	82.1	14	2.9	18	0.392	11.	0.010	1A	6.8	14	8.5	1Ã	64.8
KENSEY	TRISUIT BRIDGE	R1.2N004	18	13.	6.8	11.	7.7	1A	15.3	1A	83.8	18	4.4	118	0.660	1A	0.010	1A	9.7	14	12.7	IA	64.0
KENSEY	NEWPORT'	R1.2ND05	18	12	6.8	1 12	8.0	1A	16.3	1A	86.0 j	ᄊ	2.6	I JA	0.257	1A	0.010	18	10.9	1A	6.9	1A	58.2
KENET	ST. LECIMARIOS ERILICE	[RL2N002]	路	1X	6.9	13.	7.9	18	15.8 j	18	84.3 j	18	3.7	1A	0.240	13.	0.010	12	14.1	14	12.2	18	46.0
DECEME SIDEM	RED DOWN BRIDGE	R12N006	18	1A	6.6	1A	7.5	1A	15.6	1A	81.5	18	3.5	128	0.520	12	0.010	1A	7.7	11.	7.2	1A	43.4
ZAREY			12	1A	6.7	120	7.9	-IA	15.7	1B	76.2	•	6.3	1B	0.565	12	0.010	1A	11.5	1A	13.0	12	16.0
CAMES.	ASPILL BRIDE	R12HD01	,	1A	6.7	I IA	7.8	17	16.1	1B	70.6	1B	4.0	1B	0.317	IA	0.010	IA	10.3	IA	12.0	IA IA	26.6
SAET.	MILLE BRIDE VIRGINION	R12H007		12	6.7	I IA	7.7	12	15.9	18	79.6	2	5.1	1 1B	0.317	IA	0.010	12	13.0	I IA	11.0	IA IA	20.0 20.0
ONEY ONEY	BOLLPORD BRIDGE	R12H008	•		6.7	I IA	7.9	12	17.6	18	77.0	18	4.4	1 46 1 2	0.838	IA	0.014	IA	12.0	la la	6.0	IX IX	13.0
NEY .	HEALE BRODE	[R1.2H002]			6.7	12	7.8	12	17.5	18	68.8	18	3.6	118	0.436]Y	0.010	IX	13.0	12	6.9	IY IV	20.3
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NYCICAPAL RIVERS AUGINERY — SOUTH WEST REGION

1991 RIVER WHIER QUALITY CLASSIPTICATION

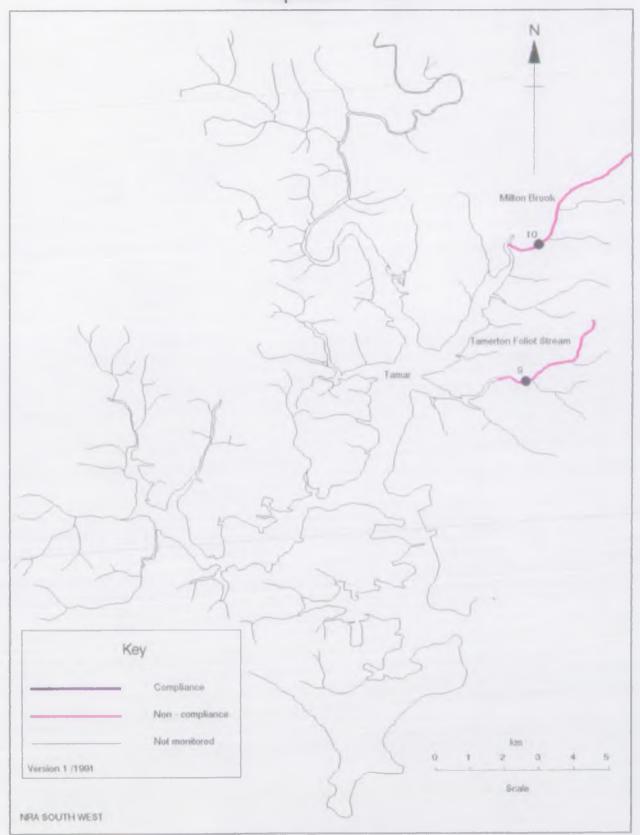
CALCULATED DETERMINAND STRUISTICS USED FOR QUALITY ASSESSMENT

CATCHENT: THAR

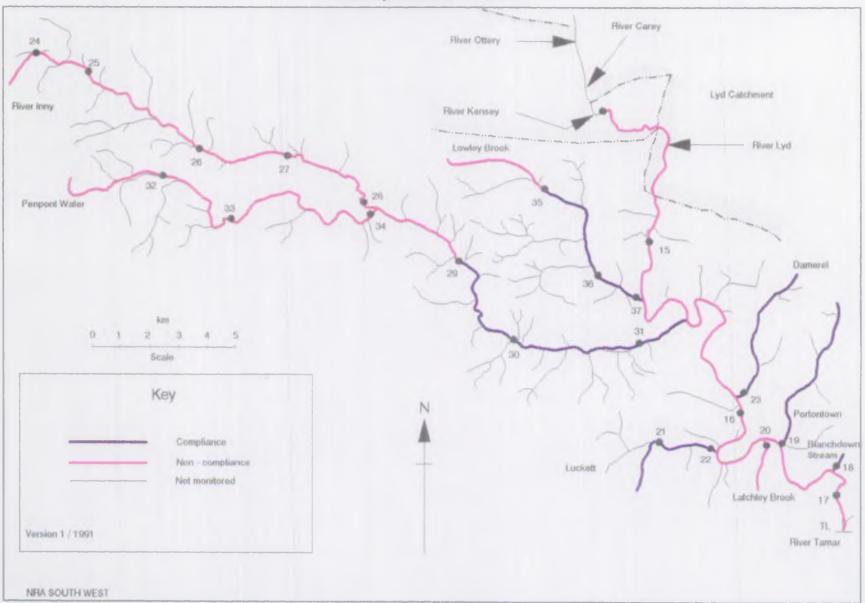
River	Reach upstress of	User	PQD -	ł		Origin	ated Det		nd Status	لتزجع بع	ed for Q	uality	A6368500	nt.									
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			! !	l I	<i>-</i>		3,741.5		, ,,,,,,,,,,,		74113		, ,,,,,,,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		3 334220	, —— ! !					
				<u> </u>		 				<u> </u>		<u> </u>		\ <u> </u>	A risera			<u> </u>				<u> </u>	163.2
OTIDIX	OTTERNA MILL	RL2M004	•	•	6.5	IA	7.4	1 12	16.2	IA	80.7	2	6.0	2	0.727	1A	0.010	13	9.9	IA	8.4	1A 1A	38.6
OTIERY	TRACINE HOLE	RL24005	•	l lA	6.8	I IA	7.7	l lA	16.9	IA	83.8	1B	3.5	1B	0.435	IA	0.010	1A	7.4 9.8	IA IA	6.4 5.9	1 13	25.0
OTER	CNWORTHY WRITER BRIDGE	[RL24001	•	•	6.8	1x	8.4	1	19.2	IA	80.6	1B	3.6	1B	0.413	IV	0.010	l la	•	I IA		I IA	21.8
OTDER	HELLESCOTT BRIDGE	RL2M002	•	*	6.9	1x	7.7] IA	18.6	1.8	78.0	1B	3.2	1B	0.342	1A	0.010	114	10.6		5.8	•	16.0
OTERY	YEALMERIDGE	[R1.24006	•	1x	6.9	1X	8.0	ו או	19.0	1B	78.0	1 2	5.4	i iv	0.248	1A	0.010	13	14.7	IA	7.6	1A	
OTDER!	HPM MILL ERIDGE 	X1.24007	128 	1). 	6.9	1A	8.0	i iy	19.5	[1). 	80.4	1B	4.8	[1A 	0.283	IA	0.010	1A 	9.6	Į IA	10.1	1A 	25.4
HOLESHOUSE WROER	200 MEDRES D/S OF NRVARINO BRIDGE	R129012	18	1A	6.9	1A	7.6	1A	17.0	2	40.6	3	16.0	3	1.650	13	0.010	3	26.6	2	61.4	11	25.2
CHUNKRIN WOER	CAUDICRORY BRIDGE	R12M010	18	IA	6.8	1A	7.6	1A	17.1	1B	70.2	1.8	3.9	1A	0.288	TA.	0.010	IA.	19.3	1A	5.0	1A	16.0
CALIDADRIDAY WATER	PRICE TO RIVER OTTERY	R124011	1B	l la	6.8	1A	7.7] JA	17.0	1B	73.3	1B	4.6	I IB	0.500	IA	0.010	3	32.2	1A	6,0	14	20.6
CPNNORUHY WRITER	PRIOR TO RIVER OTTERY	R1.24006	18	1A	6.6	lA	7.6	Į,	16.9	1A	82.9	18	3.2	18	0.368	14	0.010	13	10.1	1A	8.9	JA.	69.1
TNA WIDT	HRUDGETOWN	R123006	1B	1A	6.6	14	7.5	1.	15.6	18	60.9	18	3.7	12	0.294	14	0.010	1A	10.0	1A	19.0	1 2	457.0
LANA LANE	LAVA BRIDGE	R123005	18	1A	6.7	1A	7.5	1A	15.9	1B	70.1	2	6.2	2	1.012	14	0.010	13	24.1	1A	11.0	12	21.0
CTM.	CLAW BRODGE	R12N016	18	11	6.7	<u> </u>	7.7	13	17.2	2	57.8	1B	4.4	2	0.812	13	0.010	1A	9.8	1A	6.0	IA	26.4
CLIW	CLAGON BRIDGE	R1.2N001	18	1A	6.6	17	8.1	JA	18.1	1B	76.0	1B	3.9	18	0.468	j 1A	0.010	I IA	10.9	1 14	7.8	IA	12.0
CL#	TETOTT BUIE	P0.20002	1B	l IA	6.6	אנן	7.7] JA	17.2	1B	66.0	1B	4.0	1B	0.513	1A	0.010	13	11.2	1A	11.0	į IA	31.0
DEER	RYDON HRIDGE	(R1.2N003	1B	1A	6.6	JA.	7.8	1A	16.4	18	68.6	18	3.6	1B	0.346	12	0.010	JA	9.7	11	7.0	JA.	17.0
DEER	MINSCOTT BRIDGE	R12N004	1B	1)	6.6	14	7.7	1A	17.0	1.8	70.8	LB	4.1	1B	0.330	1	0.010	IA	9.7	IA	8.0	1A	12.0
DEER	DEER BRUDGE	R1.2K005	18	14	6.7	1X	7.8	17	17.9	1.19	72.5	118	4.1	Į ĮA	0.261] 1A	0.010	I IA	12.1	IA	7.8] JA	38.7
CLESHIL STERM	100 MEDNES BEACH HOLDWINGHY STM	F1.28007	2	14	6.7	1A	7.7	14	17.0	1B	60.6	18	4.3	2	1.236	1A	0.010	13	11.7	1A	11.8	1A	25.0
DESECUL WRITESR	DALSTONE BRIDGE	RL27.005	19	1A	6.9	1A	7.6	1A	15.9	2	45.6	2	8.1	IB	0.532	1A	0.010	13.	20.5	IA.	4.0	1A	17.0
SPALL BROOK	HEADON BRIDGE	R127.011	18	1A	6.7	18	7.5	18	15.3	1 <u>1B</u>	68.8		7.0	18	0.434	<u> 1A</u>	0.010	1A	13.1	1A	6.0	JA	12.0
SPINLL BROOK	ACTION HANGE	R1.21.008	18	77	6.6	1A	7.6	1A	16.2	118	71.7	j 3	9.8	j 2	1.235	ַאַנ	0.010	1A	12.8	1A	19.4] JY	13.6
LAMBERAL WATER	IRCRUA	 RL2T.010	1.8	124	6.9	1A	7.8	1.0	15.7	18	78.4	 1B	3.9	<u> </u>	0.268	12	0.010	<u> </u>	9.0	1A	: 1.4.0	IA.	14.0
LAMBERAL WRITER	MORETON POUND ERIDGE	R121007		1A	6.5	1A	7.5	IA.	16.5	18	78.5	18	4.9	128	0.548	1A	0.010	13.	19.5	I A	16.7	IA.	15.4

River Tamar Compliance - 1991



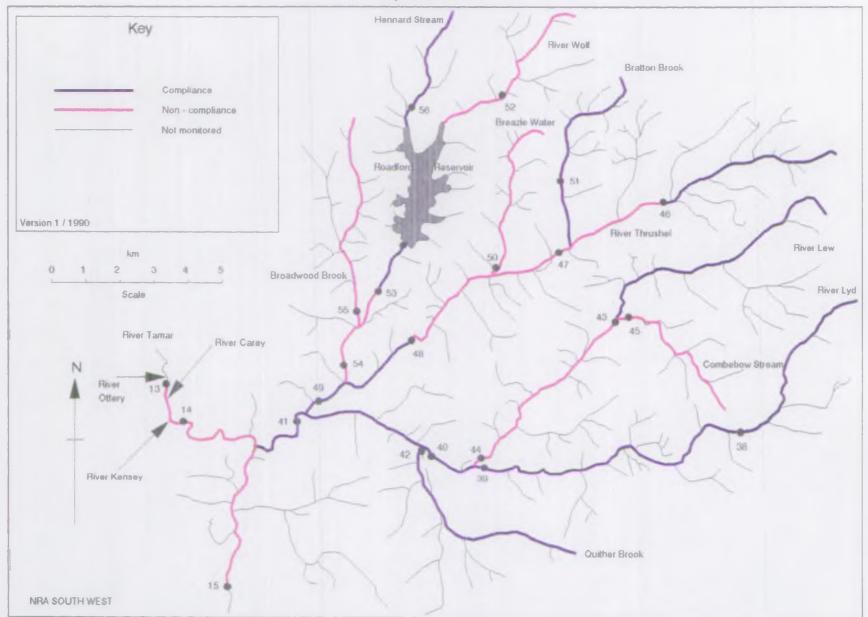


Inny Catchment Compliance - 1991

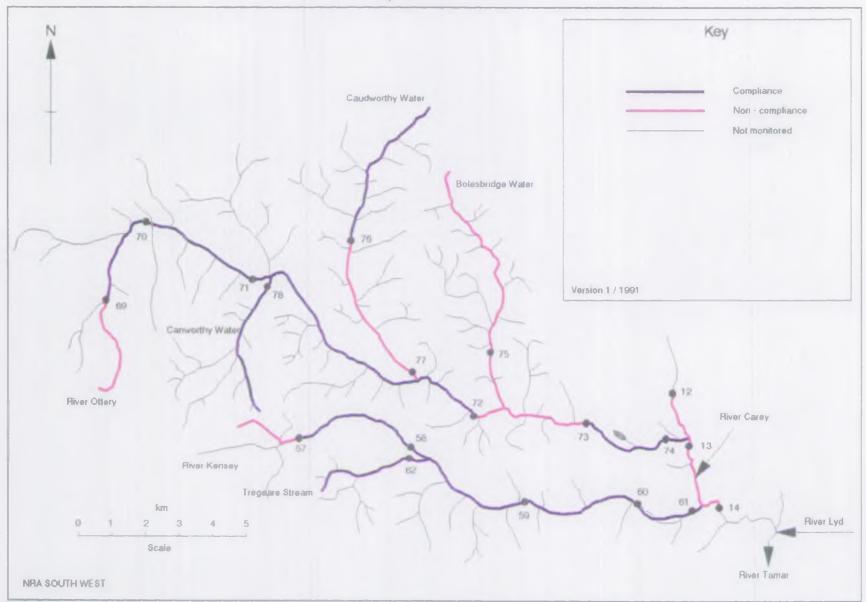


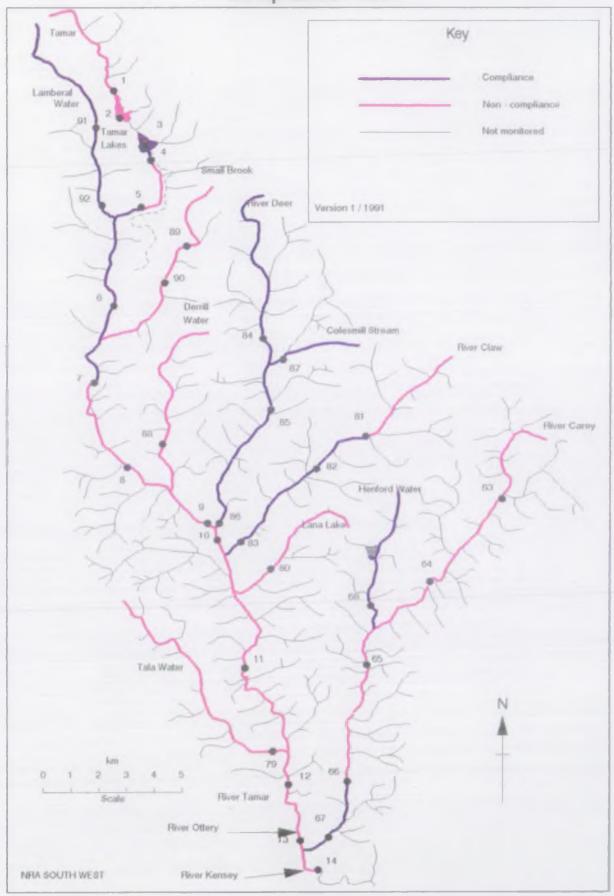
Appendix 8 8

Lyd, Thrushel & Wolf Catchments Compliance - 1991



Ottery & Kensey Catchments Compliance - 1991





INCLUMAL RIVERS AUTHORITY — SOUTH WEST REGION 1991 RIVER WRIER QUALITY CLASSIFICATION

NUMBER OF SAMPLES (II) AND NUMBER OF SAMPLES EXCERDING QUALITY STRAIGHTO (F)

CATCHENT: THAR

River	Reach upstreem of	User	pH I	CHEL	pH 1	fiper	Tempera	eture	1 20	(%)	BOD (/	AIU)	Total A	mania.	Union.	Ameria	S.So	Lids	Total	Coliber.	Tota	l Zirx
		Ref. Number	N	P	N	F	 N	P	13	F	 N	F	14	F	19	F	 N	P	N	P	N	P
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MAR	BUSES BRIDGE	R121.001	34	-	34		34	_	34	-	34	1	34	2	33		34	1	19		19	-
TAYA R	UPPER TIMMER LAKE	R121017	32	-	32	-	31	-	22	1	32	2	32	-	20	-	32	4	23	-	23	-
TAPAR	LOWER TAYAR LAKE	R121.018	32	-	32	-	32	-	23	-	32	-	32	-	21	-	32	3	23	- 1	23	•
DAMBAR	POUTERIDGE HELOW LOWER TEMPR LAKE	R12L009	33	-	33	-	33	-	33	-	33	-	33	-	32	-	33	4	26	-	26	-
TMPR	DEXHESE BRUDGE	R121006	33	-	33	_	33	-	33	-	33	1	33	-	33	-	j 33	5	22	- [22	•
DAMAR	TAMARSIONE HODGE	R121002	36	-	36	-	36	-	35	_	36	1	36	-	36	-	36	6	34	- 1	34	1
MAR.	BUDGRIE	R121015	33	_	j 33	_	33	-	33	_	32	-	33	-	32	-	33	7	22	-	22	•
TAMPAR	CROWFORD BRIDGE	R12T003	33	-	j 33	-	j 32	_	32	-	33	2	33	1	32	_	33	7	22	1	22	1
DAMPAR	TEMERICN BRIDGE	R1ZL004	33	-	j 33	-	j 33	_	j 33	-	j 32	2	j 33	-	1 33	-	33	6	20	- 1	20	-
DAMAR	HELCH CONFILENCE WITH RIVER DEER	R121013	23	_	j 23	_	23	_	j 23	_	j 23	2	j 23	-	j 23	-	23	5	j 12	- i	12	-
DAMAR	BOXION BRIDGE	R123001	33	_	i 33	_	33	-	i 33	-	j 33	2	33	-	32	-	33	7	j 22	- ì	22	:
DYAR	DRUKTON BRIDGE	R123002	33	_	33	_	31	_	32	_	i 33	3	j 33	-	j 32	_	33	5	j 21.	- i	21	
DMAR	NETERRITE	R127003	32	_	32	_	i 30	_	31	_	32	1	32	_	j 30	-	32	7	32	- 1	32	
DAYAR	POLSON ERIDE	R123004	35	-	35	-	35	_	35	_	35	2	35	_	i 35	-	35	8	j 34	- i	34	
DMAR	GENSIONE BRODES	R1.2E001	34	_	34	_	34	_	i 34	_	i 34	1	34	-	i 34	-	i 34	9	i 20	- i	20	
NAK	HEREURE	[R1.2E002]	32	_	32	_	32	_	32	-	32	_	32	-	31	-	32	8	i 30	- 1	30	
PMAR	GMISINE BRIDE	[R1.2E003]	70	_	70	_	70	1	i 69	_	70	2	i 70	_	19	4	70	12	70	4	70	
ATTEN.	I STATE STATE	1 1	-		¦ ~		¦ ″	•	5		¦ ~	-	1 ~		; -		i ''		1	- 1		
ELANCHOON STREAM	HOUR TO RIVER TEMPR	R1.2E004	29	-	29	-	28		27	-	29	1	29	~	13	-	29	-	28	-	28	
PORTONIOWN STREAM	PRICE TO RIVER TEMPER	R12E034	16	_	16	-	16	-	15		16	-	16		12	-	16	_	9	(-) 1	9	
TRACHERA BLOOK	INCHEX	R1.25028	32		32	-	32	-	32		32	-	32	-	22	-	32	1	21	12	21	2
WKEIT			32		32	<u>-</u> -	32	-	32		32		32		31		32	1	24		24	—
LUKETT	LUCETT BRIDE	R1.29007	34	-	i 34	_	i 34	-	i 34	_	i 34	-	ì 34	_	j 31	-	j 34	1	33	-	33	1
	i	100			i		i		i		i		i		ì		i		i			
DAMEREL STREAM	PRIOR TO RIVER TIMPER	R120014	33		33		33		33		33	-	33		31	-	33	5	11	-	11	- 6
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IMY	UPSIDEMY OF DAVIDSION CHEMERY	R1.2P001	33	_	33		31	_	32	-	33	4	33	2	31	-	33	3	20		20	100
DANA	TREWINGW BRIDGE	R1.2P002	33	_	33	_	33	_	33	1	33	2	33	1	33	_	j 33	3	1 21	· - i	21	-
NNY	ST. CLETHER BRIDGE	R12P003	34	_	34	_	i 34	_	34	2	34	4	34	2	33	_	34	3	17		17	
DAY.	GIMLETT'S MILL	R12P012	33	_	33	-	33	_	33	_	33	3	1 33	_	30	_	33	2	16		16	
MY	TWO HRIDES	R1.2P004	35	_	35	_	35	_	34	3	1 35	3	35	_	35	-	35	4	33		33	
144A 2447	TREKELIAND BRIDGE	RL2R005	13	_	ı	_	1 33	_	1 33	2	1 33	3	1 33	-	31	_	33	3	15		15	
NNY NNY	INDEPENDENT BRIDE	RL2P013	32	_	32	_	33	_	33	_	33	_	1 33	-	30	_	32	0 2			16	
	•		34	_	34	_	1 33	_	1 33	-	34	_	34	_	33	=	34	5	32		32	
w	BEALS MILL BRIDGE	RL2P006	34	_	1 24	_	1 33	-	נבן		j 34	_	34	_	נגון	-		,	*	7.	, . 	
CATAM LAWS	Investor recover		20		36		75		35	•	35	-	30		 		32		10	<u> </u>	10	
ENFORT WRITER	TRELYN BRIDGE	[RL2F010]	35	-	35	-	35	-	35	1	35	2	35	-	1 29	-	35	, T	•	7		
ENFORT WRITER	MINNU BILLE	[R12P007]	34	-	34	_	34	_	34	-	34	1	34	-	27		34	1	17	1	17	
PENPONT WRITER	(TIND BRIDLES	[R1.2F008]	35	-] 35 	-	1 35	-	35 	2	35 	1	35 	-	34 	-	35 	2	34	-	34	
OMEN BROOK	LANDANE BRIDGE	R1.25005	35	-	35	-	35		35	-	35	3	35	2	35	-	35	5	19	-	19	-
LOWLEY BROOK	LANDLE BRIDGE	R1.2E017	33	_	1 33	-	1 33	-	33	-	33	1	33	-	1 33	-	l 33	3	17	-	17	-
LOWLEY EROOK	LOWLEY HRIDGE	R12E006	36	_	1 36	_	1 36	-	1 36	_	! 36	_	36	-	1 35	_	J 36	7	133	-	34	-

NATIONAL RIVERS AUTHRITY — SOUTH WEST REGION 1991 RIVER WRITER QUALITY CLASSIFICATION

NAMER OF SHIPLES (N) AND NAMER OF SAMPLES EXCEPTING CIPALITY STANDARD (P)

CRICHENT: TIMER

River	Reach upstream of	User	ph L	OWEL	pH (<u>tr</u> er	Temper	exctan	1 00	(\$)	800 (ATU)	[Total	Amuchia	junion.	Ammornia	S.So	1108	Locar	Oxfor	i rocar	l Zinc
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									<u> </u>		<u> </u>								<u> </u>			
LYD	A386 ROALBRIDGE LATERORD	R12F012	33	_	33	-	33	-	33	-	33	-] 33	-	20	-	33	1	20	-	20	-
IND	GREENLANES BRIDGE	R12F001	36	-	36	-	36	-	36	-	36	-	36	-	30	-	36	-	1 19		19	-
מצו	STENEM BRIDGE	R12F011	34	-	34	-	34	-	33	-	34	-	34		30	_	34	2	19	1.7	1 19	-
מעו	LIPION HOLE	RLZF002	36	-	36	-	36	-	36	-	36	-	36	-	1 35	-	36	2	1 33		133	-
			- 35		<u> </u>		<u> </u>		<u> </u>		77		. 32	-	30	-	32	- 2	14		14	- 2
QUITHER BROOK	PRIOR TO RIVER 1320	R12F013	32	-	322	-	32	-	32	-	32	7	32	-	30	-	34	2	1 14	= :	1	-
TEM	COMBRESOW BRIDGE:	R1.2F003	34		34	_	34		34	_	34		34		33	-	34	1	19	-	19	-
LEW LEW	PRIOR TO RIVER LED	R12F004	34	_	34	-	34	-	34	-	34	-	j 34	-	31	(C+0)	34	2	j 29	1	29	-
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COMPERON STREAM	ROAD CLEVERT NEAR COMPEROW QUARRY	R12F010	Z7	-	27	-	27	-	27	-	27	•	27	-	23	-	27	2	1 13	2	l 13	-
S 10		ll			<u></u>		<u> </u>		<u> </u>				ļ <u> </u>		!		- 34		 		25	
THUHL	RIVERMEAD BRIDGE	R12G001	34	-	34	-	34	-	34	-	34	1	34	1	1 32	-	34	1	25	-	22	_
THEFT.	MAINHILL BRIDGE	[R120002]	34		34	-	34	-	34	1	35	1	34	1	32	- !	34	2	22		20	_
TRUSEL	STOAFORD BRIDGE	[R120003]	34	-	34	-	34	_	34	-	34	2	34	4	34	2	34	3 3	20	-	20 34	_
TRUE	TINEY BUICE	[R12G004]	36	-	36	-	36	_	36	-	36	2	36	1	35		36	3	34	-	34 	-
HEAZIE WAIDE	PRODE TO RIVER THRUSHEL	R120010	33		33		33	-	33	-	33	2	33	1	32	-	33	4	18	-	18	-
I TOO OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PER	Important CLOSTIV		33		33	_	33	(4)	33	1.401	33	1	33	-	33	_	33	2	18	-	1.8	-
HRATION BROOK	HENGLON CTONETTA	i l		_	į ~		-				i	_	i		i			_	i 🗀		i	
WILF	WEEK'S MILL BRIDGE	R12G005	34		34	 -	34	-	34	-	34	-	34	_	33	-	34	2	34	1	34	-
WOLF	REXEN BRIDGE	[RL2G006]	34	_	34	-	j 34	_	j 33	_	34	-	34	-	32	- (34	4	34	-	34	-
WOLF	PRICE TO RIVER THRESEL	[R120007]	37	_	37	-	j 37	-	j 37	-	37	1	37	-	35	-	37	3	34	-	34	-
	i	ii			<u> </u>		<u> </u>		<u> </u>		<u></u>		<u> </u>		1				<u> </u>		<u>!</u>	
HRONDICOD BROOK	KELLACOIT BRIDGE	R120012	33	-	33	-	33	-	33	-	33	1	33	-	32	-	33	3	18	4	1 18	-
		<u> </u>	- 70		79		 77	1	75		78		80		26		32	-	14	-	14	-
HENNAND STREAM	PRIOR TO ROADFORD	[R123096]	79	_	, <i>'</i> 3	_	l "	•	"	_	¦ ′•	_	¦ ~	_	~						i	
KENSEY	BADGALL BRIDGE	R12N003	34	-	34		34	_	34	_	34		34	_	34	-	34	2	34		34	3
KENSEY	BADARLICK BRIDGE	R12N001	34	-	34	-	j 33	_	j 33	-	34	-	34	-	33	-	34	2	34	-	34	-
KENSEY	TRECOTT BRIDGE	R12ND04	35	-	35	_	j 34	_	j 34	-	35	-	j 35	-	33	- 1	35	3	21	1-	21	-
KENSEY	NEWCRT	RL2N0051	34	_	34	_	34	_	34	_	34	-	j 34	-	34	-	34	3	j 22	-	22	-
KENSEY	ST. LEXINATES BRIDGE	RL20002	37	_	37	_	37	-	37	_	37	1	j 37	-	j 37	-	37	5	j 37,	, -	37	-
		ii	· .		i		<u>i</u>		<u></u>		<u> </u>		<u> </u>						1 .	113	<u> </u>	
DECEME SDEAM	RED DOWN BRIDGE	R1.2N006	35	-) 35 I	_	34		34	-) 35 1	-	35	1	34	-	35	3	27,	-	27 	-
CAREX	HADALLY BAIDES — GROUNCH	R1.2HD06	33		33		33	-	32	3	33	3	j 33	2	32	_	33	3	13	_	13	-
CAREX	ASPILL BRIDGE	R12H001	34	-	j 34	_	j 34	_	33	3	34	5	j 34	1	j 30	- (34	3	26	-	26	-
OMEX.	MILITAE PRINCE VIRGINATION	R1.2H007	32	_	32	_	j 32	-	į 31.	-	32	1	j 32	-	30	-	32	5	j 12	-	12	-
CMEZ.	POLIFORD HRIDGE	R1.2H008	31	_	31	-	31	_	j 31	-	j 31	_	31	1	j 31	- i	31	4	12	-	12	-
CAREX	HEALE BRODGE	R1.2H002	35	-	35	-	35	-	35	-	35	-	į 35	-	34	-	35	6	j 30	-	30	-
	<u>i</u>	<u>_ii</u>			<u></u>		<u></u>		<u> </u>		!		<u></u>		<u> </u>				!		 	
EDVECTED WATER	HENFORD	RLZH005	32	-	32	-	! 32	-	31	-	32	-	32	_	31	-	32	3	17	_	17	-

NACTIONAL RIVERS AUTHORITY - SOUTH WEST REGION 1991 RIVER WIDER QUALITY CLASSIFICATION NUMBER OF SAMPLES (IN) AND NUMBER OF SAMPLES EXCEPTING QUALITY STRUCKED (F)

CATCHENT: THAR

River	Peach upstream of	User	pH L	OMBE	pH U	pper	Temper	ature	l ID	(%)	BOD (AUU)	Total A	mmia	Union.	America	S.Sc	lids	Total	Opper	Total	Zinc
	į -	Ref.	_		į		1	_	!	_	!	_	!	_	! _	_		_	!		 151	_
		Nuber 	N	F	131 	F	N 	P	N 	F	N 	P	N 	r	N 	P	N 	F	N 	P	B	F
					<u> </u>				<u> </u>						<u> </u>				<u> </u>			
OLIERA	CITEMPM MILL	[R1.2M004]	33		33	-	33	_	33	-	33	2	33	1	33	-	33	1	31	-	31	-
OFIDEY	THENGINE HOLDE	[R12M005]	34	-	34	-	34	-	34	-	34	-	34	-	32	-	34	1	32	-	32	-
OTTERY	CANACKITY MAIDE HAIDE	[RL2M001]	33	-	33	-	33	_	32	-	33	-	33	-	33	-	33	2	22	-	22	-
ONERY	HELLESCOFF HRIDGE	RL2M0021	35	-	35	-	35	-	34	-	35	1	35	-	34	-	35	4	23	-	(Z3	-
CITERY	YEARTHEADE	[R1.2M006]	34	-	34	-	34	-	34	-	34	1	34	-	32	-	34	4	22	-	22	-
OTTERY	HAM MOLL ERODGE	RL21007	32	-	32	-	31	-	31	-	32	1	32	•	30	-	32	3	32	-	1 32	-
BOLESBRIDGE WIGER	200 MEIRES D/S OF NAVARINO BRIDGE	R12M012	33		33	-	31		31	3	33	4	33	3	30	-	33	7	23	1	23	
CALDICIRUHY WRODER	CAUDACKIHA HKITAE	R12M010	31		31		31	=	31	-	32	-	32	-	30	-	32	1	17	-	17	_
CALIDICRIBAY WATER	PRIOR TO RIVER OFFERE	R12+011	32	-	32	-	32 	-	32	-	32 	-	32	1	31	-	32	7	23 	-	23	-
CNANDERS MADES	PRIOR TO RIVER OTTERY	R1.2M008	33	-	33	-	33	_	33	-	33	-	33	-	33	-	33	1	21	-	21	_
TNA WRIER	BRIDGELIOAN	R123006	32	-	32	-	32	=	32	-	32	-	32	-	31	-	32	1	18	-	1.8	1
LWA LAKE	LAVA BRIDGE	R123005	31		31	-	30	-	30	-	31	2	30	7	29	- 5	31	4	17	-	17	(*)
CLAW	CLAW BRIDGE	R12K016	31	-	31	_	30	_	31	1	31	_	31	1	29		31		22	-	22	-
CLAW	CLANION BRIDGE	R12K001	32	_	32	_	32	_	32	_	j 32	_	32	_	32	-	32	1	j 23	_	j 23	-
CLAW	TERCOIT BRIDGE	R12N002	33	-	33	-	33	-	33	1	33	-	33	1	32	-	33	2	29	-	j 29	-
DEER	PRION BRIDE	R1.2N003	31	-	31	-	31		31	_	31	_	31	-	30	-	31	1	19	-	19	_
DEER	WINSCOTT BRIDGE	[RL2K004]	31	-	31	-	31	-	31	-	31	-	31	-	31	-] 31	-	19	-	19	-
DEER	DEER BRIDGE	[R1.2K005]	33	-	33	-	33	-	33	-] 33	-	33	•	33	-	33	1	30	-	30 	-
CONTRACT STREAM	100 METRES HELOW HOLSWORTHY STW	[R1.2k007]	31		31	-	1 11	-	u	-	31	<u> </u>	31	1	31	-	31	2	31	-	31	-
DESKIL WATER	DALSTONE PRIDE	R12T.005	37	-	37		36	-	36	2	37	3	37	1	34	-	37	5	23	170	23	-
SMALL BROOK	HEADEN HRIDGE	R127.011	36		36	_	36		36	1	36	2	36	-	36		36	2	18	-	1.8	_
SPALL BROOK	KONTON BRIDGE	[R12T2008]	33	-	33	-] 32	•	32	-] 33	3	33	3	J 30	-	33	4	23	1-	23 	-
LAMBERAL WRITER	PORDA	P1.71.010	37	-	37	-	37		37	1	37	_	37		37	-	37	1	18.,	-	1.8	_
LAMBERAL WRITER	MORRION FOUND BRIDGE	[RL2L007]	33	-	33	-] 33	-	33	-	1 33	1	33	-	32	-	33	5	25,] 25 	-

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION

1991 RIVER WATER QUALITY CLASSIFICATION PERCENTAGE EXCEEDENCE OF DETERMINAND STATISTICS FROM QUALITY STANDARDS CATCHMENT: TAMAR User River Reach upstream of Ref. |

Number | pH Lov BUSES BRIDGE R12L001 TAMAR [R12L017] **JUPPER TAMAR LAKE** TAMAR |R12L018| LOWER TAMAR LAKE TAMAR |FOOTBRIDGE BELOW LOWER TAMAR LAKE |R12L009 | TAMAR |R12L006| DEXBEER BRIDGE TAMAR TAMARSTONE BRIDGE |R12L002| TAMAR BRIDGERULE |R12L015| TAMAR CROWFORD BRIDGE |R12L003| TAMAR TAMERTON BRIDGE R12L004 TAMAR |BELOW CONFLUENCE WITH RIVER DEER |R12L013| TAMAR BOYTON BRIDGE [R12J001] TAMAR |R12J002| TAMAR DRUXTON BRIDGE |R12J003| NETHERBRIDGE TAMAR TAMAR POLSON BRIDGE |R12J004| GREYSTONE BRIDGE |R12E001| TAMAR R12E002 TAMAR HORSEBRIDGE GUNNISLAKE BRIDGE |R12E003| TAMAR BLANCHDOWN STREAM PRIOR TO RIVER TAMAR R12E004

R12E034 PRIOR TO RIVER TAMAR PORTONTOWN STREAM LATCHLEY BROOK LATCHLEY R12E028 R12E016 LUCKETT OLDMILL LUCKETT BRIDGE]R12E007|

LUCKETT PRIOR TO RIVER TAMAR |R12E014| DAMEREL STREAM UPSTREAM OF DAVIDSTOW CREAMERY R12P001 INNY TREWINNOW BRIDGE 1R12P0021 INNY |R12P003| INNY IST. CLETHER BRIDGE |R12P012| INNY GIMBLETT'S MILL |R12P004| INNY TWO BRIDGES TREKELLAND BRIDGE |R12P005| INNY INNY TRECARRELL BRIDGE [R12P013] INNY BEALS MILL BRIDGE IR12P006

TRELYN BRIDGE PENPONT WATER |R12P010| PENPONT WATER **IALTARMUN BRIDGE** IR12P0071 PENPONT WATER TWO BRIDGES |R12P008|

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R12E005 LOWLEY BROOK LANDLAKE BRIDGE |R12E017| LANDUE BRIDGE LOWLEY BROOK LOWLEY BROOK LOWLEY BRIDGE |R12E006|

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NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION

1991 RIVER WATER QUALITY CLASSIFICATION

PERCENTAGE EXCEEDENCE OF DETERMINAND STATISTICS FROM QUALITY STANDARDS

CATCHMENT: TAMAR

River	Reach upstream of	User	-	PERCENTAGE	EXCEEDENCE OF	STATISTIC	FROM QUALITY	Y STANDARD	· — -——			-
	ļ.	Ref.		ļ	<u> </u>		!!		!	!	! !	
		Number	pH Lower	pH Upper	Temperature	DO (%)	BOD (ATU)	Total Ammonia	Un-ionised Ammonia	[Suspended Solids	Total Copper	Total Zinc
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		ļ							<u> </u>			
LYD	A386 ROADBRIDGE LYDFORD	R12F012			·}		11,41					-
LYD	GREENLANES BRIDGE	R12F001	_	~	i – i	_	1-5	_	i -	-	i – i	_
LYD	SYDENHAM BRIDGE	R12F011	_	-	i _ i	_	-	_	i _			_
LYD	LIFTON BRIDGE	R12F002		-	4	5-15	-	-	<u> </u>	-	-	-
QUITHER BROOK	PRIOR TO RIVER LYD	R12F013		\ 	-		-		{ -		-	
LEW	COMBEBOW BRIDGE	 R12F003	_		. - <u>-</u> -		 -		-	! -		
LEW	PRIOR TO RIVER LYD	R12F004	_	-	-	-	0-	-	i -	i -	4	-
COMBEBOW STREAM	ROAD CULVERT NEAR COMBEBOW QUARRY	R12F010	_	ļ -	-	-	-	-			55	
THRUSHEL	RIVERMEAD BRIDGE	R12G001		-			-		\ 	-	-	-
THRUSHEL	WRIXHILL BRIDGE	R12G002	_	-	i - i	-	i e i	_	i →	-	-	-
THRUSHEL	STOWPORD BRIDGE	R12G003	_	-	i - i	-	i 71 i	64	ì 55	32	i - i	-
THRUSHEL	TINHAY BRIDGE	R12G004	- 1	-	-	-	12	4	<u> </u>	-	-	-13
BREAZLE WATER	PRIOR TO RIVER THRUSHEL	R12G010			-	-	188	14		48	-	
BRATTON BROOK	BRATTON CLOVELLY	R1 2G009	_		111		-		-	-	-	
WOLF	WEEK'S MILL BRIDGE	R1 2G005			\ 						-	-
WOLF	REXON BRIDGE	R12G006	_	-	i - i	-	-	_	i -	-	-	-
WOLF	PRIOR TO RIVER THRUSHEL	R12G007	-	-	-	-	-	-	-	1 1	-	-
BROADWOOD BROOK	KELLACOTT BRIDGE	R12G012	-	 -	15,11		44	-	<u> </u>	38	-	-
HENNARD STREAM	PRIOR TO ROADFORD	R1 2G096	-	-	-					-	1 -	
KENSEY	BADGALL BRIDGE	R12N003		-	- -		-		1			31
KENSEY		R12N001	_	-	i – i	- i	-	_		- "	5 -	-
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KENSEY		R12N002	-	-	-	1 - 1	-	-	-	-		-
TREGEARE STREAM	RED DOWN BRIDGE	 R12N006			(-)	<u>-</u>-	-				3 -	-
CAREY	HALWILL BRIDGE - QUODITCH						109	79	<u> </u>			_
CAREY	- w	R12H000 R12H001	_		1 - !	12	33	2	- '-			_
CAREY	• **		-		! - !	- 44	33	-		<u> </u>	-	- 2
		R12H007	_			- !	0.000	70	·			
Carey Carey		R12H008 R12H002	-	-		- -	-	20 -	1	-	- 12	-
HENFORD WATER	HENFORD	R1 2H005			<u> </u>	 :			! <u>-</u>			

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CATCHMENT: TAMAR

River	Reach upstream of	User]	PERCENTAGE	EXCEEDENCE OF	STATISTIC	FROM QUALIT	TY STANDARI)			
		Ref. Number	 pH Lower 	 pH Upper 	 Temperature 	DO (%)	BOD (ATU)	 Total Ammonia	 Un-ionised Ammonia		Total Copper	Total Zinc
		!			<u>i</u>				<u> </u>	<u> </u>		
OTTERY	OTTERHAM MILL	 R12M004	<u> </u>		·¦		20	4	·¦ -			
OTTERY	TRENGUNE BRIDGE	R12M005		-	-	- -		<u> </u>	\	2	324	320
OTTERY	CANWORTHY WATER BRIDGE	R12M001		_	i - i	-	-	-	i -	4	_	
OTTERY	HELLESCOTT BRIDGE	R12M002			i - i	_	_	i -	j _	4	_	-
OTTERY	YEOLMBRIDGE	R12M006		-	i - i	_	9	-	i -	-	- 2	-
OTTERY	HAM MILL BRIDGE	R12M007		-	1-	4	11.9	-	70 0	<u> </u>	-	-
BOLESBRIDGE WATER	200 METRES D/S OF NAVARINO BRIDGE	R12M012	-	-	-	32	220	136	-	6	103	-
CAUDWORTHY WATER	CAUDWORTHY BRIDGE	R12M010	-	-	¦ 		1,20		-} -	-		1 = 1
CAUDWORTHY WATER	PRIOR TO RIVER OTTERY	R12M011		-	-	-	-	1.5	į -	29	-	-
CANWORTHY WATER	PRIOR TO RIVER OTTERY	R12M008	<u></u>	74	+	-	-	-	-	<u>-</u>	-	-
TALA WATER	BRIDGETOWN	R12J006	-	-			-	(-)	-		-	52
LANA LAKE	LANA BRIDGE	R12J005		1.0	-		24	45	-	-	-	
CLAW	CLAW BRIDGE	R12K016	 -	-	\ 	4		16	¦ -			
CLAW	CLAWTON BRIDGE	R12K001	i -	-	i - i	-	-	-	i -	-	-	-
CLAW	TETCOIT BRIDGE	R12K002	-	-	-	-	1 =	-	<u>-</u>	-	-	-
DEER	RYDON BRIDGE	R12K003		13-11	¦ -	- -	-		 	-	 ¦	-
DEER	WINSCOTT BRIDGE	R12K004	j -	-	- 1	-	-	_	-	-	- 1	-
DEER	DEER BRIDGE	R12K005	C) + 0.	-	-	- -	-		-	-	-	-
COLESMILL STREAM	100 METRES BELOW HOLSWORTHY STW	R12K007	-	1 - 1	-	U=7	-	-	•	<u> </u>	-	-
DERRIL WATER	DUALSTONE BRIDGE	R12L005	-	-	-	24	62	-	-	- 13	-	-
SMALL BROOK	HEADON BRIDGE	R12L011		-	¦- 		39		<u> </u>	-	-	C=1
SMALL BROOK	YOULDON BRIDGE	R1 2L008	-	-	-	-	95	76	-	i - i	y -	-
LAMBERAL WATER		R12L010			-		-	-		-		-
LAMBERAL WATER	MORETON POUND BRIDGE	R12L007 	100	-		-	-	-	-	- ((1) -	-
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