NRA South West 136

Environmental Protection Internal Report

REGIONAL WATER QUALITY MONITORING AND SURVEILLANCE PROGRAMME FOR 1992

TIDAL WATERS MONITORING AND SURVEILLANCE

January 1992
TWU/92/08

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REGIONAL WATER QUALITY MONITORING AND SURVEILLANCE PROGRAMME FOR 1992

TIDAL WATERS MONITORING AND SURVEILLANCE

TECHNICAL REPORT NO: TWU/92/08

SUMMARY

The report presents details of the routine water quality monitoring programmes in tidal waters in this region along with the reasons for monitoring and summary information for each programme.

All the monitoring points in these programmes have been plotted on to maps contained in Technical Report Number FWP/92/001, Water Quality Monitoring Locations 1992.

SUMMARY INFORMATION FOR EACH PROGRAMME

PROGRAMME	SAMPLING POINTS	NUMBER OF SAMPLES
EC Identified Bathing Waters	221	4420
Additional Bathing Waters (Total)	79	1580
Marine Algal Monitoring	-	-
Water Contact Sports Survey	108	953
EC Dangerous Substances Directive	257	1006
EC Designated Shellfisheries	3	54
Non Designated Shellfisheries	12	108
Red List and Paris Commission	42	504
National Marine Monitoring	4	13
COPA Variation Order Discharges	394	1555
Estuary Quality Survey (Chemistry)	115	4206
Estuary Quality Survey (Biology)	68	340
Coastal Monitoring Survey	30	220
Bioaccumulation Survey (Total)	31	31
Aesthetic Quality	-	-
Total	1364	14990

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ENVIRONMENT AGENCY
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1. INTRODUCTION

The Tidal Waters Scientist is responsible for the planning and annual review and update of the routine monitoring programmes in all estuaries and coastal waters in the South West Region. These programmes are designed to meet requirements of UK and European legislation and national and international conventions.

2. BATHING WATERS SURVEY

2.1 EC IDENTIFIED BATHING WATER PROGRAMME

2.1.1 DESCRIPTION OF PROGRAMME

134 bathing waters in the South West have been identified as coming under the scope of the EC Bathing Water Directive. 133 of these are regularly monitored to assess compliance with the requirements of the Directive.

Monitoring points are defined for each water and reflect the point where the highest average density of bathers can be expected. Monitoring starts at the beginning of May and continues to the end of September each year. Twenty samples are to be collected during this period under as wide a variety of tidal conditions as possible. The Directive allows for waivers to be granted for certain parameters because of exceptional weather or geographical conditions. In the South West there is a waiver for transparency around the whole coastline because of the natural high turbidity of these waters.

Freshwater inputs to beaches are monitored as part of this programme to provide information on sources and causes of non compliant waters.

2.1.2 REASON FOR MONITORING

Directive 76/160/EEC concerning the quality of bathing waters requires that "identified" waters comply with specified standards aimed at achieving an acceptable level of aesthetic quality and the protection of public health.

The aim of the Directive is to guarantee a minimum quality of bathing water by laying down a number of values corresponding to nineteen microbiological and physico-chemical parameters. For thirteen of these parameters standards are set for imperative (I) or mandatory values which are not to be exceeded and for guideline (G) values which are to be strived for.

The mandatory requirements of this Directive have been translated into UK legislation under the provisions of the 1991 Water Resources Act by the Bathing Waters (Classification) Regulations (SI 1991/1597) which came into force on 9 August 1991. The NRA has now received a Direction from the DoE to implement these Regulations. The Regulations specify a single classification which defines the determinands to be measured and the standards to be achieved. For waters that do not comply with the standards, the NRA must identify sources and causes of non compliance and make the necessary improvements to water quality to ensure that the water will comply.

2.1.3. PROGRAMME INFORMATION

Numbers of sampling points	:	221
Numbers of samples	:	4420

Frequency of use of Analysis Requirements Groups (ARGs) and total numbers of determinands, in brackets:	S102	282	(282)
	S103	282	(564)
	S104	2820	(64860)
	S105	1600	(14400)

Details of the composition of each ARG may be found in the NRA South West Region's ARG Dictionary.

2.1.4 EXPLANATION OF SCHEDULE CONTENTS

The following table details the sampling and analysis requirements for this programme. The User Reference Number (URN) is the unique identification code for the site. It allows sample results for the site to be retrieved from the Water Quality Archive (sample database). The National Grid Reference (NGR) defines the location of the site on a map. The Material Code details the type of sample collected, for example 2J is sea water, 2F is freshwater, 2I is estuarine water. It forms part of the information about each particular sample held on the Water Quality Archive. The Purpose Code details the reason why a particular sample has been collected. For example, SQMB relates to EC Directive monitoring - bathing waters. SMRE relates to routine monitoring analysis (for EC Directives), SQMR relates to routine monitoring (in general). This code allows samples collected for particular reasons (from one or several sites) to be retrieved from the Water Quality Archive.

2.1.5 ENDORSEMENT

The contents of this programme have been agreed by the Water Quality Planner, Field Controller and Laboratory Controller.

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION
1992 BATHING WATERS SURVEY
PROGRAMME LAST UPDATED :- 10-JAN-1992

C'MENT NUMBER	DISTRICT COUNCIL	USER REF NO.	BEACH NAME	N.G.R.	MAT. CODE	SAMPLING FREQUENCY (PER ANNUM)	ANALYSIS REQUIRED (ARGs)	AREA	PURPOSE CODE	DATE MONTH 01-12
01	WEST DORSET D.C.	ECB0010	LYME REGIS (COBB) BEACH	SY 3390 9185	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0010	RIVER LIM AT BEACH	SY 3425 9213	2F	20	S105	E	SQMB	05-09
01	WEST DORSET D.C.	ECB0011	LYME REGIS (CHURCH) BEACH	SY 3436 9212	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
01	WEST DORSET D.C.	B0012	LYME REGIS (MONMOUTH) BEACH	SY 3370 9156	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
02	EAST DEVON D.C.	ECB0020	SEATON BEACH (DEVON)	SY 2450 8985	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	+E.VIRUS		SQMB	05-09
		ECBR0020	SEATON BEACH - AXE ESTUARY AT ESTUARY MOUTH	SY 2560 8970	2F	20	S105	E	SQMB	05-09
02	EAST DEVON D.C.	ECB0030	BEER BEACH	SY 2315 8910	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
03	EAST DEVON D.C.	ECB0040	SIDMOUTH (TOWN) BEACH	SY 1270 8720	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
04	EAST DEVON D.C.	ECB0041	SIDMOUTH (JACOBS LADDER) BEACH	SY 1190 8695	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
04	EAST DEVON D.C.	ECB0050	LADRAM BAY BEACH	SY 0972 8515	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
04	EAST DEVON D.C.	ECB0060	BUDLEIGH SALTERTON BEACH	SY 0695 8190	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0060	BUDLEIGH SALTERTON BEACH - OTTER ESTUARY AT ESTUARY MOUTH	SY 0770 8193	2F	20	S105	E	SQMB	05-09
04	EAST DEVON D.C.	ECB0070	SANDY BAY BEACH	SY 0335 7980	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
05	EAST DEVON D.C.	ECB0080	EXMOUTH BEACH	SY 0098 7995	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
	EAST DEVON D.C.	ECBR0080	EXMOUTH BEACH - LITTLEHAM BROOK	SY 0112 8075	2F	20	S105	E	SQMB	05-09
05	TEIGNBRIDGE D.C.	ECB0090	DAWLISH WARREN BEACH	SX 9830 7875	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
05	TEIGNBRIDGE D.C.	ECB0100	DAWLISH (TOWN) BEACH	SX 9655 7680	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
05	TEIGNBRIDGE D.C.	ECB0101	DAWLISH (CORYTON COVE) BEACH	SX 9611 7606	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
05	TEIGNBRIDGE D.C.	ECB0110	TEIGNMOUTH (TOWN) BEACH	SX 9430 7285	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
05	TEIGNBRIDGE D.C.	ECB0111	TEIGNMOUTH (HOLCOMBE) BEACH	SX 9565 7461	2J	20	S104 +	E	SQMB	05-09

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						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
	TEIGNBRIDGE D.C.	ECBR0111	TEIGNMOUTH (HOLCOMBE) BEACH - STREAM A	SX 9565 7467	2F	20	S105	E	SQMB	05-09
06	TEIGNBRIDGE D.C.	ECB0120	SHALDON BEACH	SX 9350 7230	2J	20	S104 +	B	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
06	TEIGNBRIDGE D.C.	ECB0130	NESS COVE	SX 9385 7170	2J	20	S104 +	B	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
06	TORBAY B.C.	ECB0140	MAIDENCOMBE BEACH	SX 9278 6850	2J	20	S104 +	B	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
	TORBAY B.C.	ECBR0140	MAIDENCOMBE BEACH - STREAM A	SX 9275 6847	2F	20	S105	E	SQMB	05-09
06	TORBAY B.C.	ECB0150	WATCOMBE BEACH	SX 9262 6730	2J	20	S104 +	B	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
06	TORBAY B.C.	ECB0160	ODDICOMBE BEACH	SX 9265 6585	2J	20	S104 +	B	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
06	TORBAY B.C.	ECB0170	BABBACOMBE BEACH	SX 9300 6545	2J	20	S104 +	B	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
06	TORBAY B.C.	ECB0180	REDGATE BEACH	SX 9350 6480	2J	20	S104 +	B	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
06	TORBAY B.C.	ECB0190	MEADFOOT BEACH	SX 9305 6305	2J	20	S104 +	B	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
06	TORBAY B.C.	ECB0200	BEACON COVE BEACH	SX 9195 6307	2J	20	S104 +	B	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
06	TORBAY B.C.	ECB0210	TORRE ABBEY BEACH	SX 9095 6351	2J	20	S104 +	B	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
	TORBAY B.C.	ECBR0210	TORRE ABBEY BEACH - STREAM A	SX 9075 6345	2F	20	S105	E	SQMB	05-09
06	TORBAY B.C.	ECB0220	HOLLICOMBE BEACH	SX 8980 6215	2J	20	S104 +	B	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0220	HOLLICOMBE BEACH - STREAM A	SX 8983 6228	2F	20	S105	E	SQMB	05-09
06	TORBAY B.C.	ECB0230	PAIGNTON (PAIGNTON SANDS)	SX 8949 6063	2J	20	S104 +	B	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
06	TORBAY B.C.	ECB0231	PAIGNTON (PRESTON SANDS)	SX 8964 6177	2J	20	S104 +	B	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
	TORBAY B.C.	ECBR0231	PRESTON SANDS - STREAM A	SX 8955 6138	2F	20	S105	E	SQMB	05-09
06	TORBAY B.C.	ECB0240	GOODRINGTON BEACH	SX 8935 5940	2J	20	S104 +	B	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
	TORBAY B.C.	ECBR0240	GOODRINGTON BEACH - STREAM A	SX 8910 5930	2F	20	S105	E	SQMB	05-09
06	TORBAY B.C.	ECB0250	BROADSANDS BEACH	SX 8970 5745	2J	20	S104 +	B	SQMB	05-09

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						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0251	BROADSANDS BEACH - TOR STREAM	SX 8975 5734	2F	20	S105	E	SQMB	05-09
06	TORBAY B.C.	ECB0260	SHOALSTONE BEACH	SX 9320 5662	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
06	TORBAY B.C.	ECB0270	ST.MARY'S BAY BEACH	SX 9320 5510	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0270	ST.MARY'S BAY BEACH - STREAM A	SX 9330 5490	2F	20	S105	E	SQMB	05-09
		ECBR0271	ST.MARY'S BAY BEACH - STREAM B	SX 9320 5510	2F	20	S105	E	SQMB	05-09
07	SOUTH HAMS D.C.	ECB0280	DARTMOUTH CASTLE AND SUGARY COVE	SX 8865 5020	2I	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
08	SOUTH HAMS D.C.	ECB0290	BLACKPOOL SANDS	SX 8550 4785	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
08	SOUTH HAMS D.C.	ECBR0290	BLACKPOOL SANDS - STREAM A	SX 8526 4765	2F	20	S105	E	SQMB	05-09
08	SOUTH HAMS D.C.	ECB0300	SLAPTON SANDS (MONUMENT)	SX 8295 4430	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
08	SOUTH HAMS D.C.	ECB0301	SLAPTON SANDS (TORCROSS)	SX 8235 4195	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
08	SOUTH HAMS D.C.	ECB0310	MILL BAY BEACH	SX 7407 3825	2I	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
	SOUTH HAMS D.C.	ECBR0310	MILL BAY BEACH - STREAM A	SX 7405 3813	2F	20	S105	E	SQMB	05-09
08	SOUTH HAMS D.C.	ECB0320	SALCOMBE NORTH SANDS	SX 7310 3820	2I	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0320	SALCOMBE NORTH SANDS - COLLATON STREAM	SX 7305 3818	2F	20	S105	E	SQMB	05-09
08	SOUTH HAMS D.C.	ECB0330	SALCOMBE SOUTH SANDS	SX 7285 3775	2I	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0330	SALCOMBE SOUTH SANDS - COMBE STREAM	SX 7284 3747	2F	20	S105	E	SQMB	05-09
08	SOUTH HAMS D.C.	ECB0340	HOPE COVE BEACH	SX 8755 3975	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0340	HOPE COVE BEACH - BOLBERRY STREAM	SX 6750 3968	2F	20	S105	E	SQMB	05-09
08	SOUTH HAMS D.C.	ECB0350	THURLESTONE (SOUTH) BEACH	SX 6765 4170	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0351	THURLESTONE (SOUTH) - STREAM B	SX 6780 4175	2F	20	S105	E	SQMB	05-09
08	SOUTH HAMS D.C.	ECB0351	THURLESTONE (NORTH) BEACH	SX 6740 4210	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0350	THURLESTONE - STREAM A	SX 6730 4215	2F	20	S105	E	SQMB	05-09

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08	SOUTH HAMS D.C.	ECB0360	BANTHAM BEACH	SX 6623 4380	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0360	BANTHAM BEACH - BUCKLAND STREAM	SX 6630 4355	2F	20	S105	E	SQMB	05-09
		R08B005	BANTHAM BEACH - AVON AT HATCH	SX 7145 4725	2F	20	S105	E	SQMB	05-09
08	SOUTH HAMS D.C.	ECB0370	BIGBURY-ON-SEA (SOUTH) BEACH	SX 6510 4415	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
08	SOUTH HAMS D.C.	ECB0371	BIGBURY-ON-SEA (NORTH) BEACH	SX 6495 4430	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
08	SOUTH HAMS D.C.	ECB0380	CHALLABOROUGH BEACH	SX 6492 4480	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0380	CHALLABOROUGH BEACH - STREAM A	SX 6485 4475	2F	20	S105	E	SQMB	05-09
09	SOUTH HAMS D.C.	ECB0390	MOTHECOMBE BEACH	SX 6105 4734	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		R09B003	R.ERME AT SEQUERS BRIDGE	SX 632 519	2F	20	S105	E	SQMB	05-09
		ECBR0390	MOTHECOMBE BEACH - STREAM A	SX 6105 4737	2F	20	S105	E	SQMB	05-09
10	SOUTH HAMS D.C.	ECB0400	WEMBURY BEACH	SX 516 485	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
	SOUTH HAMS D.C.	ECBR0400	WEMBURY BEACH - STREAM A	SX 5175 4855	2F	20	S105	E	SQMB	05-09
10	SOUTH HAMS D.C.	ECB0410	BOVISAND BEACH	SX 493 505	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
11	PLYMOUTH C.C	ECB0420	PLYMOUTH HOE (EAST)	SX 470 537	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
11	PLYMOUTH C.C	ECB0421	PLYMOUTH HOE (WEST)	SX 475 537	2J	20	S104 +	E	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
12	CARADON D.C.	ECB0430	PORTWRINKLE BEACH	SX 359 538	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
13	CARADON D.C.	ECB0440	DOWNDERRY BEACH	SX 314 538	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
	CARADON D.C.	ECBR0440	DOWNDERRY BEACH - STREAM A	SX 3145 5395	2F	20	S105	W	SQMB	05-09
13	CARADON D.C.	ECB0450	SEATON BEACH (CORNWALL)	SX 303 543	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		R13A005	SEATON BEACH - STREAM A	SX 303 545	2F	20	S105	W	SQMB	05-09
14	CARADON D.C.	ECB0460	MILLENDREATH BEACH	SX 268 541	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
	CARADON D.C.	ECBR0460	MILLENDREATH BEACH - STREAM A	SX 2682 5412	2F	20	S105	W	SQMB	05-09
14	CARADON D.C.	ECB0470	EAST LOOE BEACH	SX 257 532	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09

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		ECBR0470	EAST LOOE - LOOE RIVER	SX 256 530	2F	20	S105	W	SQMB	05-09
15	RESTORMEL B.C.	ECB0480	READYMONEY COVE BEACH	SX 118 511	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
16	RESTORMEL B.C.	ECB0490	POLKERRIS BEACH	SX 0928 5210	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
16	RESTORMEL B.C.	ECB0500	PAR BEACH	SX 083 533	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		R16A005	PAR RIVER AT ST.BLAZEY BRIDGE	SX 071 552	2F	20	S105	W	SQMB	05-09
		ECBR0500	PAR SANDS BEACH - STREAM A	SX 0870 5320	2F	20	S105	W	SQMB	05-09
17	RESTORMEL B.C.	B0501	SPIT BEACH	SX 0710 5230	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
17	RESTORMEL B.C.	ECB0510	CRINNIS (GOLFLINKS) BEACH	SX 063 522	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0510	CRINNIS (GOLFLINKS) BEACH - STREAM A	SX 0611 5230	2F	20	S105	W	SQMB	05-09
17	RESTORMEL B.C.	ECB0511	CRINNIS (LEISURE CENTRE) BEACH	SX 056 521	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
17	RESTORMEL B.C.	ECB0520	CHARLESTOWN BEACH	SX 042 516	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
17	RESTORMEL B.C.	ECB0521	DUPORTH BEACH	SX 035 512	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
17	RESTORMEL B.C.	ECB0530	PORTHPEAN BEACH	SX 032 507	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
18	RESTORMEL B.C.	ECB0540	PENTEWAN BEACH	SX 018 467	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		R18A008	PENTEWAN BEACH - STREAM A	SX 017 473	2F	20	S105	W	SQMB	05-09
18	RESTORMEL B.C.	ECB0550	POLSTREATH BEACH	SX 017 454	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
18	RESTORMEL B.C.	ECB0560	PORT MELLON BEACH	SX 016 439	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0560	PORT MELLON BEACH - STREAM A	SX 015 439	2F	20	S105	W	SQMB	05-09
18	RESTORMEL B.C.	ECB0570	GORRAN HAVEN (LITTLE PERHAVER) BEACH	SX 0130 4170	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0570	LITTLE PERHAVER BEACH - STREAM A	SX 0130 4156	2F	20	S105	W	SQMB	05-09
18	RESTORMEL B.C.	ECB0571	GORRAN HAVEN (VAULT) BEACH	SX 0100 4080	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
18	RESTORMEL B.C.	ECB0580	PORTHLUNEY BEACH	SW 973 413	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09

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						2	S103		SQMB	05-09
		ECBR0580	PORTHLUNEY BEACH - STREAM A	SW 975 415	2F	20	S105	W	SQMB	05-09
18	CARRICK D.C.	ECB0590	PENDOWER BEACH - *NEEDS NEW NGR*		2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0590	PENDOWER BEACH - STREAM A	SW 8975 3818	2F	20	S105	W	SQMB	05-09
18	CARRICK D.C.	B0589	CARNE BEACH (PENDOWER)	SW 9050 3830	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0589	CARNE BEACH - STREAM A	SW 9050 3830	2F	20	S105	W	SQMB	05-09
19B	CARRICK D.C.	B0595	LOE BEACH - FEOCK	SW 8260 3810	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
19	CARRICK D.C.	ECB0600	GYLLYNGVASE BEACH	SW 809 316	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
19	CARRICK D.C.	ECB0610	SWANPOOL BEACH	SW 803 313	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0610	SWANPOOL BEACH - SWAN POOL	SW 8025 3130	2F	20	S105	W	SQMB	05-09
19	CARRICK D.C.	ECB0620	MAEN PORTH BEACH	SW 790 296	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0620	MAEN PORTH BEACH - STREAM A	SW 789 296	2F	20	S105	W	SQMB	05-09
19	KERRIER D.C.	ECB0630	PORTHALLOW BEACH	SW 797 233	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		R19A032	PORTHALLOW BEACH - STREAM A	SW 797 232	2F	20	S105	W	SQMB	05-09
19	KERRIER D.C.	ECB0640	PORTHOUSTOCK BEACH	SW 807 217	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		R19A017	PORTHOUSTOCK BEACH - STREAM A	SW 806 218	2F	20	S105	W	SQMB	05-09
19	KERRIER D.C.	ECB0650	COVERACK BEACH	SW 783 184	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0650	COVERACK BEACH - STREAM A	SW 7825 1835	2F	20	S105	W	SQMB	05-09
19	KERRIER D.C.	ECB0660	KENNACK SANDS	SW 734 165	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0660	KENNACK SANDS - STREAM A	SW 735 165	2F	20	S105	W	SQMB	05-09
		ECBR0661	KENNACK SANDS - STREAM B	SW 737 166	2F	20	S105	W	SQMB	05-09
19	KERRIER D.C.	ECB0670	POLURRIAN COVE BEACH	SW 668 187	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
	KERRIER D.C.	ECBR0670	POLURRIAN COVE BEACH - STREAM A	SX 6685 1884	2F	20	S105	W	SQMB	05-09
19	KERRIER D.C.	ECB0680	POLDHU COVE BEACH	SW 665 198	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		R19A011	POLDHU COVE BEACH - STREAM A	SW 666 200	2F	20	S105	W	SQMB	05-09
19	KERRIER D.C.	ECB0690	GUNWALLOE COVE BEACH	SW 654 225	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09

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21	KERRIER D.C.	ECB0700	PORTHLEVEN (EAST) BEACH	SW 636 247	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
21	KERRIER D.C.	ECB0701	PORTHLEVEN (WEST) BEACH	SW 632 253	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
21	KERRIER D.C.	ECB0710	PRAA SANDS (EAST)	SW 585 276	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
21	KERRIER D.C.	ECB0711	PRAA SANDS (WEST)	SW 577 281	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0710	PRAA SANDS - STREAM A	SW 576 283	2F	20	S105	W	SQMB	05-09
21	PENWITH D.C.	ECB0720	PERRAN SANDS	SW 539 293	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
21	PENWITH D.C.	ECB0731	MARAZION AND MOUNTS BAY (LITTLE HOLGUS)	SW 513 310	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0730	MARAZION AND MOUNTS BAY - STREAM A	SW 514 312	2F	20	S105	W	SQMB	05-09
21	PENWITH D.C.	ECB0732	MARAZION AND MOUNTS BAY (HELIPORT)	SW 485 311	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		R21A006	MARAZION AND MOUNTS BAY - STREAM	SW 479 310	2F	20	S105	W	SQMB	05-09
		R21A006	MARAZION AND MOUNTS BAY - STREAM	SW 481 311	2F	20	S105	W	SQMB	05-09
21	PENWITH D.C.	ECB0734	MARAZION AND MOUNTS BAY (PENZANCE)	SW 475 298	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
21	PENWITH D.C.	ECB0735	MARAZION AND MOUNTS BAY (WHERRY TOWN)	SW 467 294	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		R21A005	MARAZION AND MOUNTS BAY - STREAM	SW 462 290	2F	20	S105	W	SQMB	05-09
		R21A007	MARAZION AND MOUNTS BAY - STREAM	SW 467 295	2F	20	S105	W	SQMB	05-09
22	PENWITH D.C.	ECB0740	PORTHCURNO BEACH	SW 387 223	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
22	PENWITH D.C.	ECB0750	SENNEN BEACH	SW 3552 2645	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
22	PENWITH D.C.	ECB0760	PORTHMEOR BEACH ST.IVES	SW 5150 4103	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
22	PENWITH D.C.	ECB0770	PORTHGWIDDEN BEACH ST.IVES	SW 522 411	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
22	PENWITH D.C.	ECB0780	PORTHMINSTER BEACH ST.IVES	SW 5220 4025	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09

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						2	S103		SQMB	05-09
22	PENWITH D.C.	ECB0790	CARBIS BAY (STATION BEACH)	SW 528 389	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
22	PENWITH D.C.	ECB0791	CARBIS BAY (PORTH KIDNEY SANDS)	SW 540 385	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
22	PENWITH D.C.	ECB0800	THE TOWANS (HAYLE) BEACH	SW 563 395	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
23	PENWITH D.C.	ECB0801	THE TOWANS (GODREVY) BEACH	SW 581 417	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		R23A006	THE TOWENS (GODREVY) BEACH - STREAM	SW 583 422	2F	20	S105	W	SQMB	05-09
23	KERRIER D.C.	ECB0810	PORTREATH BEACH	SW 653 455	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		ECBR0810	PORTREATH BEACH - STREAM A	SW 655 453	2F	20	S105	W	SQMB	05-09
236	CARRICK D.C.	ECB0820	PORTHTOWAN BEACH	SW 6915 4812	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
	CARRICK D.C.	ECBR0820	PORTHTOWAN BEACH - STREAM A	SW 6925 4796	2F	20	S105	W	SQMB	05-09
23	CARRICK D.C.	ECB0830	TREVAUNANCE COVE BEACH	SW 723 517	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
	CARRICK D.C.	ECBR0830	TREVAUNANCE COVE BEACH-STREAM A	SW 7216 5160	2F	20	S105	W	SQMB	05-09
23	CARRICK D.C.	ECB0840	PERRANPORTH (VILLAGE END) BEACH	SW 757 548	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		R23A011	PERRANPORTH (VILLAGE END) BEACH - STREAM A	SW 760 545	2F	20	S105	W	SQMB	05-09
		R23A012	PERRANPORTH (VILLAGE END) BEACH - STREAM B	SW 756 541	2F	20	S105	W	SQMB	05-09
23	CARRICK D.C.	ECB0841	PERRANPORTH (PENHALE SANDS) BEACH	SW 762 570	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
23	CARRICK D.C.	ECB0850	HOLYWELL BAY BEACH	SW 765 595	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		R23A010	HOLYWELL BAY BEACH - STREAM	SW 768 589	2F	20	S105	W	SQMB	05-09
24	RESTORMEL B.C.	ECB0860	CRANTOCK BEACH	SW 784 608	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
		R24A009	CRANTOCK BEACH - THE GANNEL	SW 819 599	2F	20	S105	W	SQMB	05-09
25	RESTORMEL B.C.	ECB0870	FISTRAL BEACH NEWQUAY	SW 7960 6230	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
25	RESTORMEL B.C.	ECB0880	TOWAN BEACH NEWQUAY	SW 8100 6205	2J	20	S104 +	W	SQMB	05-09
						2	S102 +		SQMB	05-09
						2	S103		SQMB	05-09
25	RESTORMEL B.C.	B0885	PORTH BEACH NEWQUAY	SW 8293 6275	2J	20	S104 +	W	SQMB	05-09

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		ECBR0885	PORTH BEACH - SREAM A
25	RESTORMEL B.C.	ECB0890	WATERGATE BEACH
		ECBR0890	WATERGATE BEACH - STREAM A
25	RESTORMEL B.C.	ECB0900	MAWGAN PORTH BEACH
		ECBR0900	MAWGAN PORTH - STREAM A
25	N. CORNWALL D.C.	ECB0910	TREYARNON BAY BEACH
		ECBR0910	TREYARNON BAY BEACH - STREAM A
25	N. CORNWALL D.C.	ECB0920	CONSTANTINE BAY BEACH
25	N. CORNWALL D.C.	ECB0930	MOTHER IVEY'S BAY
25	N. CORNWALL D.C.	ECB0940	HARLYN BAY BEACH
		R25A007	HARLYN BAY BEACH - STREAM A
25	N. CORNWALL D.C.	ECB0950	TREVONE BAY BEACH
		ECBR0950	TREVONE BAY BEACH - STREAM A
25	N. CORNWALL D.C.	ECB0960	ROCK BEACH
25	N. CORNWALL D.C.	ECB0970	DAYMER BAY BEACH
25	N. CORNWALL D.C.	ECB0980	POLZEATH BEACH
		ECBR0980	POLZEATH BEACH - STREAM A
26	N. CORNWALL D.C.	B0985	TREBARWITH STRAND BEACH
		ECBR0985	TREBARWITH STRAND BEACH - STREAM A
26	N. CORNWALL D.C.	B0989	CRACKINGTON HAVEN BEACH
		ECBR0989	CRACKINGTON HAVEN BEACH - STREAM A
26	N. CORNWALL D.C.	ECB0990	WIDEMOUTH SAND
27	N. CORNWALL D.C.	ECB1000	BUDE (SUMMERLEAZE) BEACH

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		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SW 8325 6288	2F	20	S105	W	SQMB	05-09
SW 841 649	2J	20	S104 +	W	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SW 8418 6494	2F	20	S105	W	SQMB	05-09
SW 848 674	2J	20	S104 +	W	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SW 849 672	2F	20	S105	W	SQMB	05-09
SW 857 739	2J	20	S104 +	W	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SW 858 739	2F	20	S105	W	SQMB	05-09
SW 858 748	2J	20	S104 +	W	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SW 863 760	2J	20	S104 +	W	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SW 877 755	2J	20	S104 +	W	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SW 878 753	2F	20	S105	W	SQMB	05-09
SW 892 761	2J	20	S104 +	W	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SW 893 759	2F	20	S105	W	SQMB	05-09
SW 9274 7586	2I	20	S104 +	W	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SW 928 776	2I	20	S104 +	W	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SW 936 792	2J	20	S104 +	W	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SW 9365 7890	2F	20	S105	W	SQMB	05-09
SX 0482 8638	2J	20	S104 +	W	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SX 0490 8640	2F	20	S105	W	SQMB	05-09
SX 1427 9690	2J	20	S104 +	W	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SX 1430 9683	2F	20	S105	W	SQMB	05-09
SS 198 024	2J	20	S104 +	E	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SS 204 066	2J	20	S104	E	SQMB	05-09
		2	S102 +		SQMB	05-09

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION
1992 BATHING WATERS SURVEY
PROGRAMME LAST UPDATED :- 10-JAN-1992

C'MENT NUMBER	DISTRICT COUNCIL	USER REF NO.	BEACH NAME
		ECBR1000	BUDE BEACH - U/S HELEBRIDGE WEIR
27	N. CORNWALL D.C.	ECB1001	BUDE (CROOKLETS) BEACH
		ECBR1001	FLEX BROOK AT ENTRANCE TO BEACH
27		ECB1002	BUDE (SANDY MOUTH) BEACH
28	TORRIDGE D.C.	ECB1010	HARTLAND QUAY BEACH
30	TORRIDGE D.C.	ECB 1020	WESTWARD HO! BEACH
29	N.DEVON D.C.	ECB1030	INSTOW BEACH
30	N.DEVON D.C.	ECB 1040	SAUNTON SANDS
		ECBR1040	SAUNTON SANDS -STREAM AT CAR PARK
30	N.DEVON D.C.	ECB1050	CROYDE BAY BEACH
30	N.DEVON D.C.	ECB1060	WOOLACOMBE (PUTSBOROUGH) BEACH
30	N.DEVON D.C.	ECB1061	WOOLACOMBE (VILLAGE) BEACH
	N.DEVON D.C.	ECBR1061	WOOLACOMBE (VILLAGE) - STREAM A
31	N.DEVON D.C.	ECB1070	ILFRACOMBE (HELE) BEACH
	N.DEVON D.C.	ECBR1070	ILFRACOMBE (HELE) BEACH - STREAM A
31	N.DEVON D.C.	ECB1071	ILFRACOMBE (CAPSTONE) BEACH
		ECBR1071	ILFRACOMBE BEACH - WILDER BROOK AFTER CONFLUENCE
31	N.DEVON D.C.	B1072	ILFRACOMBE (TUNNELS) BEACH
31	N.DEVON D.C.	ECB1080	COMBE MARTIN BEACH
		R31A005	COMBE MARTIN - RIVER UMBER
		ECBR1080	COMBE MARTIN - FURZEPARK STREAM
32	N.DEVON D.C.	ECB1090	LYNMOUTH BEACH

N.G.R.	MAT. CODE	SAMPLING FREQUENCY (PER ANNUM)	ANALYSIS REQUIRED (ARGs)	AREA	PURPOSE CODE	DATE MONTH 01-12
		2	S103		SQMB	05-09
SS 213 037	2F	20	S105	E	SQMB	05-09
SS 203 072	2J	20	S104 +	E	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SS 203 071	2F	20	S105	E	SQMB	05-09
SS 202 099	2J	20	S104 +	E	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SS 2230 2485	2J	20	S104 +	E	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SS 4325 2940	2J	20	S104 +	E	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SS 4717 3044	2I	20	S104 +	E	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SS 4455 3760	2J	20	S104 +	E	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SS 4465 3752	2F	20	S105	E	SQMB	05-09
SS 4347 3930	2J	20	S104 +	E	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SS 4475 4085	2J	20	S104 +	E	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SS 4562 4370	2J	20	S104 +	E	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SS 4575 4355	2F	20	S105	E	SQMB	05-09
SS 5355 4792	2J	20	S104 +	E	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SS 5358 4780	2F	20	S105	E	SQMB	05-09
SS 5182 4790	2J	20	S104 +	E	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SS 5178 4785	2F	20	S105	E	SQMB	05-09
SS 5145 4780	2J	20	S104 +	E	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SS 5772 4732	2J	20	S104 +	E	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09
SS 5768 4725	2F	20	S105	E	SQMB	05-09
SS 5748 4720	2F	20	S105	E	SQMB	05-09
SS 7250 4975	2J	20	S104 +	E	SQMB	05-09
		2	S102 +		SQMB	05-09
		2	S103		SQMB	05-09

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION
1992 BATHING WATERS SURVEY
PROGRAMME LAST UPDATED :- 10-JAN-1992

C'MENT NUMBER	DISTRICT COUNCIL	USER REF NO.	BEACH NAME	N.G.R.	MAT. CODE	SAMPLING FREQUENCY (PER ANNUM)	ANALYSIS REQUIRED (ARGs)	AREA	PURPOSE CODE	DATE MONTH 01-12
		ECBR1090	LYNMOUTH BEACH - RIVER LYN ESTUARY	SS 7230 4967	2F	20	S105	E	SQMB	05-09
				TOTAL NUMBER OF SAMPLES :		4984				

2.2. ADDITIONAL BATHING WATERS PROGRAMME

2.2.1 DESCRIPTION OF PROGRAMME

79 popular (but not identified under the EC Bathing Water Directive) bathing waters are monitored on a 3 year rolling programme using the same procedures as laid down in the previous section on EC bathing waters.

2.2.2 REASON FOR MONITORING

These popular bathing waters have been identified in preparation for the introduction of Statutory Water Quality Objectives (SWQOs) due to be laid down by the Secretary of State for the Environment. As well as the proposed general classification system (see sections on estuary and coastal quality monitoring) SWQOs will consist of a system of use related objectives and appropriate water quality standards (set to protect each use). The latest proposals for water contact sports use incorporate bathing.

These bathing waters are also important as potential sites for future identification under the EC Bathing Water Directive.

This programme provides information on the current quality of these waters and whether improvements in quality would be required to ensure the water complied with EC Directive requirements.

2.2.3 PROGRAMME INFORMATION

Numbers of sampling points	:		79	(27 to be sampled
Numbers of samples	:		1580	in 1992)
Frequency of use of Analysis Requirement Groups (ARGs) and total numbers of determinands in brackets:	:	S104	1580	(33180)

Details of the composition of each ARG may be found in the NRA South West Region's ARG Dictionary.

2.2.4 EXPLANATION OF SCHEDULE CONTENTS

The following table details the sampling and analysis requirements for this programme. The User Reference Number (URN) is the unique identification code for the site. It allows sample results for the site to be retrieved from the Water Quality Archive (sample database). The National Grid Reference (NGR) defines the location of the site on a map. The Material Code details the type of sample collected, for example 2J is sea water, 2F is freshwater, 2I is estuarine water. It forms part of the information about each particular sample held on the Water Quality Archive. The Purpose Code details the reason why a particular sample has been collected. For example, SQMB relates to EC Directive Monitoring - bathing waters. SMRE relates to routine monitoring analysis (for EC Directives), SQMR relates to routine monitoring (in general). This code allows samples collected for particular reasons (from one or several sites) to be retrieved from the Water Quality Archive.

2.2.5 ENDORSEMENT

The contents of this programme have been agreed by the Water Quality Planner, Field Controller and Laboratory Controller.

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION
1991 BATHING WATERS - ADDITIONAL SAMPLING PROGRAMME (THREE YEAR PROGRAMME, 1991-1993)
PROGRAMME LAST UPDATED : 10-JAN-1992

CATCHMENT NUMBER	SITE	USER REFERENCE NUMBER	N.G.R.	NUMBERS OF PEOPLE 1987/1989	GOOD BEACH GUIDE DESIGNATED	DESIGNATION (1)	MONITORING REQUIREMENTS BACTERIOLOGY(2) DATE	NO. PER ANNUM (3)	ANALYSIS GROUPS (ARG'S)
02	BRANSCOMBE MOUTH	B0035	SY 2080 8807	711/-	Y	B	1991	20	S104
02	WESTON MOUTH	B0036	SY 1640 8790		Y	C	1992	20	S104
06	LIVERMEAD SANDS	B0215	SX 9045 6300		Y	C	1992	20	S104
06	SALTERN COVE	B0245	SX 8955 5850			C	1992	20	S104
06	CHURSTON COVE	B0257	SX 9190 5690	170/123		C	1991	20	S104
06	MAN SANDS	B0272	SX 9228 5345		Y	B	1992	20	S104
06	LONG SANDS	B0274	SX 9198 5235			C	1992	20	S104
06	SCABBACOMBE SANDS	B0275	SX 5690 5188			C	1993	20	S104
08	LEONARDS COVE	B0285	SX 8655 4810		Y	B	1992	20	S104
08	BEE SANDS	B0302	SX 8205 4050	146/206	Y	C	1991	20	S104
08	HALL SANDS	B0303	SX 8180 3880	-/153	Y	C	1991	20	S104
08	GREAT MATTISCOMBE BEACH	B0305	SX 8168 3693	-/119		C	1993	20	S104
08	GAMMONS HEAD	B0306	SX 7666 3583			C	1993	20	S104
08	VENERICK COVE/PIGS NOSE BEACH	B0308	SX 7623 3633	195/-		C	1991	20	S104
08	ABRAHAMS HOLE	B0310	SX 7522 3691	-/124		C	1993	20	S104
08	SUNNY COVE	B0309	SX 7382 3795	121/159		B	1991	20	S104
08	DITCHEND BEACH	B0315	SX 7432 3875			B	1992	20	S104
08	SOAR MILL COVE	B0335	SX 6975 3755	119/296	Y	C	1991	20	S104
09	WONWELL BEACH, KINGSTON	B0385	SX 6174 4730		Y	C	1993	20	S104
10	STORE BEACH	B0395	SX 5668 4667	-/128	Y	C	1993	20	S104
10	JENNYCLIFF BAY	B0415	SX 4915 5225			B	1992	20	S104
12	CAWSAND BAY	B0425	SX 4342 5020	-/270	Y	B	1992	20	S104
12	WHITSAND BAY - FREATHY	B0426	SX 3960 5205	-/142	Y	B	1992	20	S104
14	LOOE (PLAIDY) BEACH	B0465	SX 2635 5370	-/131		B	1993	20	S104

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION
1991 BATHING WATERS - ADDITIONAL SAMPLING PROGRAMME (THREE YEAR PROGRAMME, 1991-1993)
PROGRAMME LAST UPDATED : 10-JAN-1992

CATCHMENT NUMBER	SITE	USER REFERENCE NUMBER	N.G.R.	NUMBERS OF PEOPLE 1987/1989	GOOD BEACH GUIDE DESIGNATED	DESIGNATION (1)	MONITORING REQUIREMENTS BACTERIOLOGY(2) DATE	NO. PER ANNUM (3)	ANALYSIS GROUPS (ARG'S)
14	LOOE (HANNAFORE) BEACH	B0470	SX 2565 5265	170/305		B	1993	20	S104
14	TALLAND BAY	B0473	SX 2236 5157	258/178		B	1993	20	S104
14	POLPERRO BEACH	B0475	SX 2100 5090	178/-	Y	B	1991	20	S104
14	LANTIC BAY	B0479	SX 1479 5088	283/121	Y	C	1991	20	S104
15	WHITEHOUSE (FOWEY) BEACH	B0480	SX 1230 5140			B	1993	20	S104
15	POLRIDMOUTH BEACH	B0485	SX 1033 5040	186/156	Y	C	1991	20	S104
18	MEVAGISSEY BEACH	B0555	SX 0160 4467		Y	B	1993	20	S104
18	HEMMICK BEACH	B0575	SW 9925 4052	185/262	Y	C	1991	20	S104
18	PORTHOLLAND BEACH	B0581	SW 9598 4125	274/127	Y	C	1991	20	S104
18	PORTLOE BEACH	B0585	SW 9385 3941		Y	B	1993	20	S104
19	PORTHCURNICK BEACH	B0591	SW 8791 3605	220/392		B	1991	20	S104
19	PORTSCATHO BEACH	B0592	SW 8775 3525			B	1992	20	S104
19	TOWAN BEACH	B0590	SW 8700 3290	230/230		C	1992	20	S104
19	PORTHBEOR BEACH	B0593	SW 8620 3200	-/153		B	1993	20	S104
19	ST. ANTONY HEAD	B0594	SW 8480 3163	104/128		B	1991	20	S104
19	ST.MAWES BEACH	B0597	SW 8510 3300	131/251	Y	B	1991	20	S104
19	CHURCH COVE (LIZARD)	B0665	SW 7152 1275		Y	B	1993	20	S104
19	POLPEOR COVE	B0666	SW 7005 1150		Y	C	1993	20	S104
19	KYNANCE COVE	B0667	SW 6835 1325	233/358		B	1992	20	S104
19	CHURCH COVE	B0681	SW 6610 2050	301/655	Y	C	1992	20	S104
19	JANGYE-RYN	B0682	SW 6592 2070	-/145		C	1993	20	S104
21	RINSEY HEAD	B0709	SW 5930 2692	-/171		C	1993	20	S104
21	KENNEGY SAND	B0714	SW 5520 2825	-/152		B	1992	20	S104
21	PRUSSIA COVE(BESSY'S COVE)	B0715	SW 5577 2785	104/-		B	1992	20	S104

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION
1991 BATHING WATERS - ADDITIONAL SAMPLING PROGRAMME (THREE YEAR PROGRAMME, 1991-1993)
PROGRAMME LAST UPDATED : 10-JAN-1992

CATCHMENT NUMBER	SITE	USER REFERENCE NUMBER	N.G.R.	NUMBERS OF PEOPLE 1987/1989	GOOD BEACH GUIDE DESIGNATED	DESIGNATION (1)	MONITORING REQUIREMENTS BACTERIOLOGY(2) DATE	NO. PER ANNUM (3)	ANALYSIS GROUPS (ARG'S)
21	MARAZION AND MOUNTS BAY-TOP TIEB	B0730	SW 5210 3040		Y	B	1992	20	S104
21	MARAZION AND MOUNTS BAY-CHYANDOUR	B0733	SW 4800 3100	9/131	Y	B	1992	20	S104
21	MOUSEHOLE BEACH	B0737	SW 4700 2630	-/160	Y	B	1993	20	S104
22	ST. LEVAN BEACH	B0742	SW 3818 2186	180/347		C	1992	20	S104
22	MILL BAY - LANDS END	B0746	SW 3576 2357	-		C	1992	20	S104
22	WHITSAND BAY (ESCALLS CLIFF)	B0751	SW 3625 2756	161/384		B	1992	20	S104
22	PRIEST'S COVE	B0755	SW 3520 3165	-/216	Y	B	1993	20	S104
23	CHAPEL PORTH BEACH	B0825	SW 6967 4955	308/254	Y	B	1992	20	S104
23	PORTH JOKE BEACH	B0865	SW 7727 6040	264/530		B	1993	20	S104
25	GREAT WESTERN BEACH	B0882	SW 8150 6190	-/540		B	1992	20	S104
25	TOLCARNE BEACH (NEWQUAY)	B0883	SW 8180 6215	-/1650		B	1992	20	S104
25	LUSTY GLAZE	B0884	SW 8240 6255	-/532		B	1992	20	S104
25	WHIPSIDERRY BEACH	B0886	SW 8305 6310	-/196		B	1992	20	S104
25	PORTHCOTHAN BEACH	B0905	SW 8570 7202	295/841	Y	B	1993	20	S104
25	CAMEL ESTUARY (BY TREGIRLS)	B0953	SW 9125 7700	101/367		B	1993	20	S104
25	PADSTOW (AT ST. GEORGE'S WELL)	B0956	SW 9191 7645	-/204	Y	B	1993	20	S104
25	GREENAWAY BEACH	B0975	SW 9295 7860	-/149		B	1993	20	S104
26	TREGADOCK BEACH	B0983	SX 0408 8404		Y	C	1993	20	S104
26	BOSSINEY HAVEN	B0987	SX 0660 8930		Y	B	1993	20	S104
27	BUDE - SEA POOL	B0999	SS 2025 0675			B	1991	20	S104
27	BUDE-NORTHCOTT MOUTH	B1003	SS 2010 0850	133/464		B	1991	20	S104
28	WELCOMBE MOUTH	B1008	SS 2125 1795	132/-	Y	C	1991	20	S104
28	SHIPLOAD BAY	B1012	SS 2480 2645		Y	C	1991	20	S104

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION
1991 BATHING WATERS - ADDITIONAL SAMPLING PROGRAMME (THREE YEAR PROGRAMME, 1991-1993)
PROGRAMME LAST UPDATED : 10-JAN-1992

CATCHMENT NUMBER	SITE	USER REFERENCE NUMBER	N.G.R.	NUMBERS OF PEOPLE 1987/1989	GOOD BEACH GUIDE DESIGNATED	DESIGNATION (1)	MONITORING REQUIREMENTS BACTERIOLOGY (2) DATE	NO. PER ANNUM (3)	ANALYSIS GROUPS (ARG'S)
28	CLOVELLY BAY	B1015	SS 3185 2495		Y	B	1991	20	S104
28	BUCKS MILLS BEACH	B1017	SS 3518 2375			B	1992	20	S104
28	PORTLEDGE BEACH	B1018	SS 3860 2464		Y	C	1991	20	S104
30	BARRICANE BEACH	B1062	SS 4535 4450	256/-		B	1991	20	S104
30	ROCKHAM BAY	B1064	SS 4585 4605	103/-		B	1991	20	S104
31	WOODY BAY	B1086	SS 6795 4890		Y	C	1993	20	S104
31	WRINGCLIFF BAY	B1087	SS 7005 4960		Y	C	1993	20	S104
31	LYNMOUTH - SEA POOL	B1089	SS 7200 4995			B	1992	20	S104
							TOTAL	1580	

(1) CATEGORY OF BATHING WATER :
B = NON IDENTIFIED, AFFECTED BY SEWAGE DISCHARGE
C = NON IDENTIFIED, UNAFFECTED BY SEWAGE DISCHARGE

(2) BACTERIOLOGY MONITORING REQUIREMENTS : ARG NUMBER S104

(3) TARGET FREQUENCY. MINIMUM OF 20 TO BE ACHIEVED IN ONE SEASON.

NOTE ON SELECTION OF SITES:-

CRITERIA: A) GOOD BEACH GUIDE DESIGNATED
B) CATEGORY 'D' BEACH - 1986 CLASSIFICATION
C) MRN OR MEC LISTING - 1986 CLASSIFICATION
D) >100 PEOPLE FROM 1987 AERIAL SURVEY

IF A + B - INCLUDE
IF A OR C BUT <100 PEOPLE - EXCLUDE
IF NO USAGE DATA AVAILABLE, WILL CHECK USAGE BEFORE MONITORING PROGRAMMED TO COMMENCE.

3. MARINE ALGAL MONITORING

3.1 PRE-PROGRAMMED MONITORING

The only pre-programmed algal monitoring in tidal waters in this region forms part of the coastal quality programme (see previous section). However, the recommendations of the Estuarine and Marine Sub-Group of the National NRA Biology Group for the "Minimum Effort" programme of algal monitoring are being implemented during 1992. The following procedure has been adopted as part of the EC bathing Water Programme:

On each routine sampling visit to an EC Identified Bathing Water, the presence or absence of any algal bloom is recorded for the sampling line and beach close to the sampling line. The sea water (at the water's edge) is observed for any evidence of algal blooms. The sea offshore is observed for signs of slicks or foaming indicative of algal blooms. Where any positive observations are recorded, a water sample is collected and returned to the laboratory for identification and enumeration of algae present.

Significant blooms are reported (on a standard form) to NRA Welsh Region for collation and forwarding to DoE via Head Office (Bristol). All other occurrences of algae are recorded and reported along with the results of microbiological sampling of bathing waters.

4. WATER CONTACT SPORTS SURVEY PROGRAMME

4.1 DESCRIPTION OF PROGRAMME

108 sites are being sampled on a monthly basis and analysed for microbiological parameters (total and faecal coliforms and faecal streptococci). For coastal sites, samples are collected 200m offshore (from the water's edge). Estuary samples are collected from mid estuary. Sites which are popular for watersports (e.g. windsurfing and surfing) all year round are being sampled from May to April. The remaining sites are sampled during the summer months only (May to September).

4.2 REASONS FOR MONITORING

The South West is internationally recognised as a surfing venue and is also very popular for other water contract sports. The survey of bathing water quality (see previous section) has shown where water quality problems exist close to beaches. This programme will provide data on water quality further offshore.

The 1992 survey is a pilot study which will allow future monitoring requirements to be better defined.

4.3 PROGRAMME INFORMATION

Total numbers of sampling points	:		108
Total numbers of samples	:		953
Frequency of use of Analysis Requirement Groups (ARGs) and total numbers of determinands in brackets	:	S104	953 (20013)

Details of the composition of each ARG may be found in the NRA South West Region's ARG Dictionary.

4.4 EXPLANATION OF SCHEDULE CONTENTS

The following table details the sampling and analysis requirements for this programme. The User Reference Number (URN) is the unique identification code for the site. It allows sample results for the site to be retrieved from the Water Quality Archive (sample database). The National Grid Reference (NGR) defines the location of the site on a map. The Material Code details the type of sample collected, for example 2J is sea water, 2F is freshwater, 2I is estuarine water. It forms part of the information about each particular sample held on the Water Quality Archive. The Purpose Code details the reason why a particular sample has been collected. For example, SQMB relates to EC Directive monitoring - bathing waters. SMRE relates to routine monitoring analysis (for EC Directives), SQMR relates to routine monitoring (in general). This code allows samples collected for particular reasons (from one or several sites) to be retrieved from the Water Quality Archive.

4.5 ENDORSEMENT

The contents of this programme have been agreed by the Water Quality Planner, Field Controller and Laboratory Controller.

WATER CONTACT SPORTS - 1992 SAMPLING PROGRAMME
PR[redacted]MME[redacted] UP[redacted]D : [redacted] [redacted]EB-[redacted]

SITE	MAXM. NO. OF SAMPLE POINTS	USER REFERENCE NUMBER	N.G.R.	SAMPLING PERIOD (MONTHS)	SAMPLING FREQUENCY (PER MONTH)	MAXM. NO. OF SAMPLES	ANALYSIS REQUIRED (ARG NUMBERS)
LYME REGIS	2	CWC0010 CWC0011	SY 3390 9185 SY 3436 9212	MAY - SEPT	1	10	S104
AXE ESTUARY (MOUTH)	1	CWC0020	SY 2550 8980	MAY - SEPT	1	5	S104
SIDMOUTH	2	CWC0040 CWC0041	SY 1270 8720 SY 1190 8695	MAY - SEPT	1	10	S104
BUDLEIGH SALTERTON	1	CWC0060	SY 0695 8190	MAY - SEPT	1	5	S104
EXMOUTH	1	CWC0080	SY 0098 7995	MAY - SEPT	1	5	S104
EXE ESTUARY (MOUTH)	1	CWC0085	SX 9990 8050	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
TEIGN ESTUARY (MOUTH)	1	CWC0110	SX 9362 7225	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
TORBAY - MEADFOOT	1	CWC0190	SX 9305 6305	MAY - SEPT	1	5	S104
TORBAY - TORRE ABBEY	1	CWC0210	SX 9095 6351	MAY - SEPT	1	5	S104
TORBAY - HOLLICOMBE	1	CWC0220	SX 8980 6215	MAY - SEPT	1	5	S104
TORBAY - PAIGNTON/PRESTON SANDS	2	CWC0230 CWC0231	SX 8949 6063 SX 8964 6177	MAY - SEPT	1	10	S104
TORBAY - GOODRINGTON	1	CWC0240	SX 8955 6138	MAY - SEPT	1	5	S104
TORBAY - BROADSANDS	1	CWC0250	SX 8970 5745	MAY - SEPT	1	5	S104
DART ESTUARY (MOUTH)	1	CWC0280	SX 8870 5074	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104

WATER CONTACT SPORTS - 1992 SAMPLING PROGRAMME
PROGRAMME LAST UPDATED : 12-FEB-1992

SITE	MAXM. NO. OF SAMPLE POINTS	USER REFERENCE NUMBER	N.G.R.	SAMPLING PERIOD (MONTHS)	SAMPLING FREQUENCY (PER MONTH)	MAXM. NO. OF SAMPLES	ANALYSIS REQUIRED (ARG NUMBERS)
BLACKPOOL SANDS	1	CWC0290	SX 8550 4785	MAY - SEPT	1	5	S104
SALCOMBE ESTUARY (MOUTH)	1	CWC0320	SX 7324 3750	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
AVON ESTUARY (MOUTH)	1	CWC0355	SX 6560 4370	MAY - SEPT	1	5	S104
BANTHAM BEACH	1	CWC0360	SX 6623 4380	MAY - SEPT	1	5	S104
BIGBURY (NORTH) BEACH	1	CWC0371	SX 6495 4430	MAY - SEPT	1	5	S104
BIGBURY (SOUTH) BEACH	1	CWC0370	SX 6510 4415	MAY - SEPT	1	5	S104
YEALM ESTUARY (MOUTH)	1	CWC0395	SX 4775 5300	MAY - SEPT	1	5	S104
BOVISAND BEACH	1	CWC0410	SX 493 505	MAY - SEPT	1	5	S104
PLYMOUTH SOUND (THE HOE)	2	CWC0420 CWC0421	SX 478 537 SX 475 537	MAY - SEPT	1	10	S104
				OCT - APR	1	14	S104
TAMAR ESTUARY	2	CWC12B2 CWC12A6	SX 4350 5905 SX 4425 5580	MAY - SEPT	1	10	S104
				OCT - APR	1	14	S104
SEATON	1	CWC0450	SX 303 543	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
EAST LOOE BEACH	1	CWC0470	SX 257 532	MAY - SEPT	1	5	S104
FOWEY ESTUARY (MOUTH)	1	CWC0480	SX 1200 5100	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104

SITE	MAXM. NO. OF SAMPLE POINTS	USER REFERENCE NUMBER	N.G.R.	SAMPLING PERIOD (MONTHS)	SAMPLING FREQUENCY (PER MONTH)	MAXM. NO. OF SAMPLES	ANALYSIS REQUIRED (ARG NUMBERS)
ST AUSTELL BAY (PAR)	1	CWC0500	SX 083 533	MAY - SEPT	1	5	S104
PENTEWAN SANDS	1	CWC0540	SX 018 467	MAY - SEPT	1	5	S104
MEVAGISSEY (POLSTREATH)	1	CWC0550	SX 017 454	MAY - SEPT	1	5	S104
FAL (CARRICK ROADS)	2	CWC19A6 CWC19A7	SW 8300 3633 SW 8300 3363	MAY - SEPT	1	10	S104
				OCT - APR	1	14	S104
GYLLYNGVASE BEACH	1	CWC0600	SW 809 316	MAY - SEPT	1	5	S104
SWANPOOL BEACH	1	CWC0610	SW 803 313	MAY - SEPT	1	5	S104
HELFORD ESTUARY	2 *	CWC0625 CWC0626	SW 7749 2726 SW 7637 2627	MAY - SEPT	1	10	S104
PORTHOUSTOCK BEACH	1	CWC0640	SW 807 217	MAY - SEPT	1	5	S104
THE LIZARD - KENNACK SANDS	1	CWC0660	SW 734 165	MAY - SEPT	1	5	S104
MULLION COVE	1	CWC0668	SW 6662 1790	MAY - SEPT	1	5	S104
PORTHLEVEN BEACH	1	CWC0701	SW 632 253	MAY - SEPT	1	5	S104
PRAA SANDS	2	CWC0710 CWC0711	SW 585 276 SW 577 281	MAY - SEPT	1	10	S104
PERRAN SANDS	1	CWC0720	SW 539 293	MAY - SEPT	1	5	S104
MOUNTS BAY - LITTLE HOLGUS	1	CWC0731	SW 513 310	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104

WATER CONTACT SPORTS - 1992 SAMPLING PROGRAMME
PROGRAMME LAST UPDATED : 12-FEB-1992

SITE	MAXM. NO. OF SAMPLE POINTS	USER REFERENCE NUMBER	N.G.R.	SAMPLING PERIOD (MONTHS)	SAMPLING FREQUENCY (PER MONTH)	MAXM. NO. OF SAMPLES	ANALYSIS REQUIRED (ARG NUMBERS)
MOUNTS BAY - HELIPORT	1	CWC0732	SW 485 311	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
MOUNTS BAY - PENZANCE	1	CWC0734	SW 475 298	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
MOUNTS BAY - WHERRY TOWN	1	CWC0735	SW 467 294	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
MOUSEHOLE	2	CWC0738 CWC0736	SW 4700 2630 SW 4719 2646	MAY - SEPT	1	10	S104
				OCT - APR	1	14	S104
LAMORNA COVE	2	CWC0739 CWC0737	SW 4540 2395 SW 4500 2374	MAY - SEPT	1	10	S104
				OCT - APR	1	14	S104
PORTHCURNO BEACH	1	CWC0740	SW 387 223	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
MILL BAY	2	CWC0745 CWC0746	SW 3570 2340 SW 3520 2385	MAY - SEPT	1	10	S104
				OCT - APR	1	14	S104
SENNEN COVE	1	CWC0750	SW 3552 2645	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
ST IVES BAY - PORTHMEOR	1	CWC0760	SW 5150 4103	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
ST. IVES BAY - PORTHGWIDDER	1	CWC0770	SW 522 411	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104

[redacted]ROGR[redacted] LAS[redacted]DAT[redacted] 12[redacted]199[redacted]

SITE	MAXM. NO. OF SAMPLE POINTS	USER REFERENCE NUMBER	N.G.R.	SAMPLING PERIOD (MONTHS)	SAMPLING FREQUENCY (PER MONTH)	MAXM. NO. OF SAMPLES	ANALYSIS REQUIRED (ARG NUMBERS)
ST. IVES BAY - PORTHMINSTER	1	CWC0780	SW 5220 4025	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
CARBIS BAY - STATION BEACH	1	CWC0790	SW 528 389	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
CARBIS BAY - PORTH KIDNEY SANDS	1	CWC0791	SW 540 385	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
HAYLE - TOWANS	1	CWC0800	SW 563 395	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
HAYLE - GODREVY	1	CWC0801	SW 581 417	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
PORTREATH BEACH	1	CWC0810	SW 653 455	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
PORTHTOWAN BEACH	1	CWC0820	SW 6915 4812	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
ST AGNES - TREVAUNANCE COVE	1	CWC0830	SW 723 517	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
PERRANPORTH	2	CWC0840 CWC0841	SW 757 548 SW 762 570	MAY - SEPT	1	10	S104
				OCT - APR	1	14	S104
HOLYWELL BAY BEACH	1	CWC0850	SW 765 595	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104

WATER CONTACT SPORTS - 1992 SAMPLING PROGRAMME
PROGRAMME LAST UPDATED : 12-FEB-1992

SITE	MAXM. NO. OF SAMPLE POINTS	USER REFERENCE NUMBER	N.G.R.	SAMPLING PERIOD (MONTHS)	SAMPLING FREQUENCY (PER MONTH)	MAXM. NO. OF SAMPLES	ANALYSIS REQUIRED (ARG NUMBERS)
CRANTOCK BEACH	1	CWC0860	SW 784 608	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
NEWQUAY - FISTRAL BEACH	1	CWC0870	SW 7960 6230	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
NEWQUAY - TOWAN BEACH	1	CWC0880	SW 8100 6205	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
WATERGATE BAY BEACH	1	CWC0890	SW 841 649	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
MAWGAN PORTH	1	CWC0900	SW 848 674	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
PORTHCOTHAN BEACH	2	CWC0905 CWC0906	SW 8525 7205 SW 8535 7242	MAY - SEPT	1	10	S104
				OCT - APR	1	14	S104
CONSTANTINE BAY BEACH	1	CWC0920	SW 858 748	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
MOTHER IVEY'S BAY BEACH	1	CWC0930	SW 863 760	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
HARLYN BAY BEACH	1	CWC0940	SW 877 755	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
TREVONE BAY BEACH	1	CWC0950	SW 892 761	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104

WATER CONTACT SPORTS - 1992 SAMPLING PROGRAMME

P[redacted]AMME[redacted]T U[redacted]D :[redacted] [redacted]FEB[redacted]

SITE	MAXM. NO. OF SAMPLE POINTS	USER REFERENCE NUMBER	N.G.R.	SAMPLING PERIOD (MONTHS)	SAMPLING FREQUENCY (PER MONTH)	MAXM. NO. OF SAMPLES	ANALYSIS REQUIRED (ARG NUMBERS)
POLZEATH BEACH	1	CWC0980	SW 936 792	MAY - SEPT	1	5	S104
CAMEL ESTUARY - OFF GENTLE JANE	2	CWC25A2 CWC25A3	SW 9350 7530 SW 9400 7471	MAY - SEPT	1	10	S104
TREBARWITH STRAND	2 *	CWC0985 CWC0986	SX 0482 8638 SX 0490 8675	MAY - SEPT	1	10	S104
CRACKINGTON HAVEN	2 *	CWC0989 CWC0987	SX 1427 9690 SX 1410 9675	MAY - SEPT	1	10	S104
WIDEMOUTH SAND	1	CWC0990	SS 198 024	MAY - SEPT	1	5	S104
BUDE - CROOKLETS BEACH	1	CWC1001	SS 203 072	MAY - SEPT	1	5	S104
BUDE - SUMMERLEAEE BEACH	1	CWC1000	SS 204 066	MAY - SEPT	1	5	S104
BUDE - SANDY MOUTH	1	CWC1002	SS 202 099	MAY - SEPT	1	5	S104
WELCOMBE MOUTH	2	CWC1008 CWC1009	SS 2100 1800 SS 2085 1865	MAY - SEPT OCT - APR	1 1	10 14	S104 S104
CLOVELLY BEACH	2	CWC1015 CWC1016	SS 3135 2554 SS 3200 2468	MAY - SEPT OCT - APR	1 1	10 14	S104 S104
SPEKE'S MOUTH (NR. HARTLAND QUAY)	2	CWC1010 CWC1011	SS 2210 2316 SS 2225 2400	MAY - SEPT OCT - APR	1 1	10 14	S104 S104
WESTWARD HO!	1	CWC1020	SS 4325 2940	MAY - SEPT OCT - APR	1 1	5 7	S104 S104
TAW ESTUARY (OFF YELLAND)	1	CWC1018	SS 4700 3200	MAY - SEPT	1	5	S104
TORRIDGE ESTUARY (OFF INSTOW)	1	CWC1030	SS 4685 3048	MAY - SEPT	1	5	S104

NATIONAL RIVERS AUTHORITY

WATER CONTACT SPORTS - 1992 SAMPLING PROGRAMME

PROGRAMME LAST UPDATED : 12-FEB-1992

SITE	MAXM. NO. OF SAMPLE POINTS	USER REFERENCE NUMBER	N.G.R.	SAMPLING PERIOD (MONTHS)	SAMPLING FREQUENCY (PER MONTH)	MAXM. NO. OF SAMPLES	ANALYSIS REQUIRED (ARG NUMBERS)
SAUNTON SANDS	1	CWC1040	SS 4455 3760	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
CROYDE BAY BEACH *	1	CWC1050	SS 4347 3930	MAY - SEPT	1	5	S104
				OCT - APR	1	7	S104
WOOLACOMBE BAY BEACH	2	CWC1060 CWC1061	SS 4475 4085 SS 4562 4370	MAY - SEPT	1	10	S104
				OCT - APR	1	14	S104
TOTAL :	107				TOTAL :	953	

NOTES : (1) TOTAL COLIFORMS PER 100 ml, FAECAL COLIFORMS PER 100ml, FAECAL STREPTOCOCCI PER 100ml
SALINITY

* URN TO BE CONFIRMED

5. EC DANGEROUS SUBSTANCES DIRECTIVE PROGRAMME

5.1 DESCRIPTION OF PROGRAMME

In the South West, 257 (discharges, estuary and coastal waters) sites are routinely sampled in accordance with the requirements of the EC Dangerous Substances Directive. Samples are collected up to 12 times per year for specified List I and List II Substances. Sample points are chosen so they are in the area affected by the discharge. In addition, monitoring is undertaken at sites away from the influence of the discharge (network sites) to determine background or environmental levels for each substance.

5.2 REASON FOR MONITORING

The objectives of the programme are both to meet the monitoring requirements of the Directive and to identify sources of List I and List II substances requiring control. This process also assists in the development of management plans for improvement. For each discharge of a List I and/or List II Substance, the NRA as the competent authority, must be able to demonstrate, by monitoring at suitable sites, that the appropriate EQSs for the receiving water are being met.

The EC Directive on "pollution caused by the discharge of dangerous substances into the aquatic environment" (76/464/EEC) defined the requirements for List I and List II Substances and is the parent directive from which subsequent daughter directives, setting down Environmental Quality Substances and limit values for particular substances, have been derived. Daughter directives exist for mercury, cadmium and its compounds, hexachlorocyclohexane, carbon tetrachloride, DDT, pentachlorophenol, aldrin dieldrin, endrin, isodrin, hexachloroethane, trichloroethane, perchloroethylene and trichlorobenzene.

The requirements of these Directives (except the one covering the last 4 substances listed above) were translated into national legislation by the Surface Water (Dangerous Substances) (Classification) Regulations 1989 (SI 1989/2286). These Regulations will be amended from time to time (by the DoE) to include other List I Substances as new daughter directives are issued.

5.3 PROGRAMME INFORMATION

Numbers of sampling points	:	257
Numbers of samples	:	1006
Frequency of use of Analysis Requirement Groups	:	

ARG Numbers	Frequency	Total Number of Determinands	ARG Numbers	Frequency	Total Number of Determinands
S143	72	3888	S172	19	418
S144	72	3960	S173	12	12
S145	9	351	S174	3	3
S146	27	1053	S175	60	60
S147	3	138	S176	59	236
S148	15	450	S177	97	388
S149	25	725	S178	31	279
S151	18	630	S180	12	108
S152	21	294	S449	55	55
S153	9	135	S450	14	112
S154	18	234	S451	57	114
S155	84	840	S452	1	12
S156	45	180	S453	2	34
S157	18	72	S454	15	420
S158	42	210	S456	1	17
S159	3	36	S458	2	32
S160	9	99	S459	14	728
S161	36	648			
S163	6	24			
S164	24	120			
S165	1	64			
S166	244	8784			
S167	180	6480			
S168	12	264			
S169	39	819			
S170	61	1891			
S171	153	2601			

Details of the composition of each ARG may be found in the NRA South West Region's ARG Dictionary.

5.4 EXPLANATION OF SCHEDULE CONTENTS

The following table details the sampling and analysis requirements for this programme. The User Reference Number (URN) is the unique identification code for the site. It allows sample results for the site to be retrieved from the Water Quality Archive (sample database). The National Grid Reference (NGR) defines the location of the site on a map. The Material Code details the type of sample collected, for example 2J is sea water, 2F is freshwater, 2I is estuarine water. It forms part of the information about each particular sample held on the Water Quality Archive. The Purpose Code details the reason why a particular sample

has been collected. For example, SQMB relates to EC Directive monitoring - bathing waters. SMRE relates to routine monitoring analysis (for EC Directives), SQMR relates to routine monitoring (in general). This code allows samples collected for particular reasons (from one or several sites) to be retrieved from the Water Quality Archive.

5.5 ENDORSEMENT

The contents of this programme have been agreed by the Water Quality Planner, Field Controller and Laboratory Controller.

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION
MONITORING PROGRAMME FOR EC DANGEROUS SUBSTANCES DIRECTIVE (76/464/EEC) - 1992
PROGRAMME LAST UPDATED : 13-JAN-1992
** Note: in 1992 this is the ACTUAL number of results required

OC = ORGANOCHLORINE PESTICIDES
PCP = PENTACHLOROPHENOL
TBT = ORGANOTIN COMPOUNDS

PY = PYRETHROID PESTICIDES
SAN = ROUTINE SANITARY AND COD
VOC = VOLATILE ORGANO-CHLORINE COMPOUNDS

OPAON = ORGANO-P & ORGANO-N COMPOUNDS
CH L2 = CH & List 2 METALS

	DISCHARGE	MONITORING POINT NAME	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	PURPOSE CODE	MTR. CODE	TIDAL STATUS	** MAX SAMP FREQ	SAMPLING FREQUENCY Hg	CHL2	As	OC	VOC	PCP	TBT	pH	OPAON	PY	BIOTA METALS	BIOTA OC'S	SEDIMENTS METALS	SEDIMENTS OC'S	DISCHARGES E.COLI	DISCHARGES SAN	ANALYSIS REQUIREMENT GROUP ARG	FREQ	ARG	FREQ	ARG	FREQ
01A	LYME REGIS OUTFALL	DISCHARGE FROM OUTFALL	OUT8050	SY 3460 9200	SMRE	4B	EBB	3				3	3	3		3							3		S148	3				
		SURFACE BOIL	OUT8050D	SY 3470 9195	SMRE	2J	EBB	3				3		3									3		S170	3	S449	3		
		SEA - 100 M FROM SURFACE BOIL	OUT8050A	SY 3475 9190	SMRE	2J	EBB	3				3											3		S170	3				
		SEA - 250 M FROM SURFACE BOIL	OUT8050B	SY 3485 9180	SMRE	2J	EBB	3				3											3		S170	3				
02A	SEATON S.T.W.	FINAL EFFLUENT	WSTW7756FE	SY 2480 9080	SMRE	4S	EBB	6		3	3	6	3	3		6	3						6		S145	6	S156	3	S180	3
		SURFACE BOIL	WSTW7756C	SY 2540 9070	SMRE	2I	EBB	6		3		6											6		S166	6				
		AXE ESTUARY 100 m U/S OF STW	ED2C1	SY 2540 9110	SMRE	2I	EBB	6				6											6		S170	6				
		AXE ESTUARY 100 m D/S OF STW	ED2B1	SY 2540 9050	SMRE	2I	EBB	6				6											6		S170	6				
		AXE ESTUARY 250 m D/S OF STW	ED2A1	SY 2530 8990	SMRE	2I/8B	EBB	6				6									1	1	6		S170	6	S454	1		
		NETWORK SITE - ESTUARY MOUTH	ED2A5	SY 2530 8970	SMRE	2I	EBB	1		1		1											1		S166	1	S178	1	S449	1
02A	BEER HEAD OUTFALL	DISCHARGE FROM OUTFALL	OUT8020	SY 2310 8920	SMRE	4B	EBB	3				3	3	3		3							3	3	S148	3	S158	3		
		SURFACE BOIL	OUT8020C	SY 2260 8740	SMRE	2J	EBB	3				3											3		S170	3				
		SEA - 100 M FROM SURFACE BOIL	OUT8020A	SY 2290 8780	SMRE	2J	EBB	3				3											3		S170	3				
		SEA - 250 M FROM SURFACE BOIL	OUT8020B	SY 2295 8770	SMRE	2J	EBB	3				3											3		S170	3				
03A	SIDMOUTH OUTFALL	DISCHARGE FROM OUTFALL	OUT8080	SY 1290 8720	SMRE	4B	EBB	3		3	3	3	3	3	3	3	3	3					3	3	S143	3	S156	3		
		SURFACE BOIL	OUT8080C	SY 1290 8690	SMRE	2J	EBB	3		3		3											3		S166	3				
		SEA - 100M FROM SURFACE BOIL	OUT8080A	SY 1295 8712	SMRE	2J	EBB	3		3													3		S168	3				
		SEA - 250M FROM SURFACE BOIL	OUT8080B	SY 1300 8700	SMRE	2J	EBB	3		3													3		S168	3				
04A	BUDLEIGH SALTERTON OUTFALL	DISCHARGE FROM OUTFALL	OUT8030	SY 0740 8190	SMRE	4B	EBB	3		3	3	3	3	3		3							3		S145	3	S156	3		
		SURFACE BOIL	OUT8030C	SY 0790 8160	SMRE	2J	EBB	3		3		3		3									3		S166	3	S449	3		
		SEA - 100 M FROM SURFACE BOIL	OUT8030A	SY 0810 8180	SMRE	2J	EBB	3		3													3		S168	3				
		SEA - 250 M FROM SURFACE BOIL	OUT8030B	SY 0820 8170	SMRE	2J	EBB	3		3													3		S168	3				
05A	EXMOUTH S.T.W.	FINAL EFFLUENT	WSTW7600FE	SY 0240 8040	SMRE	4T	EBB	3	3	3	3	3	3	3	3	3	3	3					3	3	S143	3	S158	3	S158	3
		SURFACE BOIL	OUT7600C	SY 0365 7940	SMRE	2J	EBB	3	3	3		3	3		3								3		S166	3	S178	3	S451	3
		SEA - 100 M FROM SURFACE BOIL	OUT7600A	SY 0320 7920	SMRE	2J	EBB	3	3	3		3											3		S166	3	S177	3		
		SEA - 250 M FROM SURFACE BOIL	OUT7600B	SY 0400 7800	SMRE	2J	EBB	3	3	3		3											3		S166	3	S177	3		
05A	EXETER (C.W.) STW	FINAL EFFLUENT	WSTW7594FE	SX 9480 8900	SMRE	4S	EBB	6		6		6	6	6	6	6	6	6					6		S143	6				
		SURFACE BOIL	WSTW7594C	SX 9500 8905	SMRE	2I	EBB	6		6		6					3						6		S166	6	S180	3		
		EXE ESTUARY 100 M U/S OF STW	ED5A3	SX 9430 8940	SMRE	2I	EBB	6		6		6											6		S166	6				
		EXE ESTUARY 100 M D/S OF STW	ED5A19	SX 9505 8895	SMRE	2I	EBB	6		6		6											6		S166	6				
		EXE ESTUARY 250 M D/S OF STW	ED5A18	SX 9520 8890	SMRE	2I/9C	EBB	6		6		6							6	6	6	6	6		S166	6	S459	6		
		NETWORK SITE - ESTUARY MOUTH	ED5A12	SX 9900 8050	SMRE	2I	EBB	1		1		1											1		S166	1	S178	1	S449	1
05A	DAWLISH (SEA LANES) OUTFALL	DISCHARGE FROM OUTFALL	OUT6524	SX 9680 7700	SMRE	4B	EBB	6	6	6	6	6	6	6	6	6	6	6					6	6	S143	6	S158	3	S158	6
		SURFACE BOIL	OUT6524C	SX 9695 7685	SMRE	2J	EBB	6	6	6		6											6		S166	6	S177	6	S175	6
		SEA - 100M FROM SURFACE BOIL	OUT6524A	SX 9700 7685	SMRE	2J	EBB	6	6														6		S173	6	S177	6	S175	6
		SEA - 250M FROM SURFACE BOIL	OUT6524B	SX 9710 7677	SMRE	2J	EBB	6	6														6		S173	6	S177	6	S175	6
06A	TEIGNMOUTH OUTFALL	DISCHARGE FROM OUTFALL	OUT6486	SX 9380 7230	SMRE	4B	EBB	6	6	6	6	6	6	6		6	6	6					6	3	S143	6	S158	3	S158	6
		SURFACE BOIL	OUT6486C	SX 9385 7215	SMRE	2I	EBB	6	6	6		6	6	3									6		S166	6	S178	6	S449	3

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION
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VOC = VOLATILE ORGANO-CHLORINE COMPOUNDS

OP+ON = ORGANO-P & ORGANO-N COMPOUNDS
Cd L2 = Cd & List 2 METALS

	DISCHARGE	MONITORING POINT NAME	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	PURPOSE CODE	MRT. CODE	TIDAL STATE	** MAX SAMP FREQ	SAMPLING FREQUENCY: Hg	Cd L2	As	OC	VOC	PCP	TBT	pH	OP+ON	PY	BIOTA: METALS	BIOTA: OC'S	SEDIMENTS: METALS	SEDIMENTS: OC'S	DISCHARGES: E.COLI	DISCHARGES: SAN	ANALYSIS REQUIREMENT GRO: ARG	FREQ	ARG	FREQ	ARG	FR
06A	NEWTON ABBOT	FINAL EFFLUENT	WSTW6250FE	SX 8830 7210	SMRE	4S	EBB	12	3	12		12	12	12	12	12	12	12					12		S143	12	S157	3		
	(BUCKLAND) STW	SURFACE BOIL	WSTW6250C	SX 8835 7215	SMRE	2I	EBB	12	3	12		12											12		S166	12	S177	3		
		TEIGN ESTUARY 100 M U/S OF STW	ED6A1	SX 8820 7220	SMRE	2I	EBB	12	3	12		12											12		S166	12	S177	3		
		TEIGN ESTUARY 100 M D/S OF STW	ED6A5	SX 8845 7215	SMRE	2I	EBB	12	3	12		12											12		S166	12	S177	3		
		TEIGN ESTUARY 250 M D/S OF STW	ED6A6	SX 8865 7215	SMRE	2I/8B	EBB	12	3	12		12									6	6	12		S166	12	S177	3	S454	
		NETWORK SITE-ESTUARY MOUTH OFF NESS HS	ED6A8	SX 9415 7215	SMRE	2I	EBB	1	1	1		1					1						1		S166	1	S178	1	S449	
06A	SHALDON OUTFALL	DISCHARGE FROM OUTFALL	OUT6470	SX 9300 7240	SMRE	4B	EBB	3				3	3	3		3							3		S148	3				
		SURFACE BOIL	OUT6470C	SX 9300 7280	SMRE	2J	EBB	3				3											3		S170	3				
06A	HOPES NOSE OUTFALL	FINAL EFFLUENT	OUT6588	SX 9490 6370	SMRE	4B	EBB	6	3	6	3	6	6	6	6	6	6	6					6	3	S143	6	S155	3	S158	
		SURFACE BOIL	OUT6588C	SX 9500 6365	SMRE	2J	EBB	6	3	6		6	3		3		3						6		S166	6	S178	3	S451	
		SEA - 100 M FROM SURFACE BOIL	OUT6588A	SX 9510 6370	SMRE	2J/8B	EBB	6	3	6		6									1	1	6		S166	6	S177	3		
		SEA - 250 M FROM SURFACE BOIL	OUT6588B	SX 9580 6310	SMRE	2J	EBB	6	3	6		6											6		S166	6	S177	3		
		NETWORK SITE - 100 M AWAY FROM PLUME	OUT6588F	SX 9492 6452	SMRE	2J	EBB	1	1	1		1					1						1		S166	1	S449	1		
06A	SHAWHAM OUTFALL	FINAL EFFLUENT	OUT6516	SX 9390 5460	SMRE	4B	EBB	3	3	3	3	3	3	3	3	3	3	3					3		S143	3	S158	3		
		SURFACE BOIL	OUT6516C	SX 9380 5465	SMRE	2J	EBB	3	3	3		3			3								3		S166	3	S177	3	S451	
		SEA - 100 M FROM SURFACE BOIL	OUT6516A	SX 9390 5450	SMRE	2J	EBB	3	3			3											3		S166	3	S177	3		
		SEA - 250 M FROM SURFACE BOIL	OUT6516B	SX 9450 5470	SMRE	2J	EBB	3	3			3											3		S166	3	S177	3		
07A	TOTNES STW	FINAL EFFLUENT	WSTW6321FE	SX 8073 6105	SMRE	4S	EBB	3		6	6	6	6	6	6	6	6	6					3		S143	6	S156	3		
		SURFACE BOIL	WSTW6321C	SX 8075 6100	SMRE	2I	EBB	3		6		6											3		S166	6				
		DART ESTUARY - 100M U/S TOTNES STW	ED7A21	SX 8057 6100	SMRE	2I	EBB	3		6		6											3		S166	6				
		DART ESTUARY - 100M D/S TOTNES STW	ED7A22	SX 8075 6097	SMRE	2I	EBB	3		6		6											3		S166	6				
		DART ESTUARY - 250M D/S TOTNES STW	ED7A23	SX 8075 6080	SMRE	2I	EBB	3		6		6											3		S166	6				
		NETWORK SITE - ONE GUN POINT	ED7A20	SX 8870 5050	SMRE	2I	EBB	1		1		1													S166	1	S178	1	S449	
08A	KINGSBRIDGE S.T.W.	FINAL EFFLUENT	WSTW6194FE	SX 7370 4250	SMRE	4S	EBB	3				6	6	6	6	6	6	6					6		S148	3	S161	3	S164	
		KINGSBRIDGE ESTUARY 100 M U/S OF STW	WSTW6194A	SX 7410 4290	SMRE	2I	EBB	3				6											6		S170	3				
		KINGSBRIDGE ESTUARY 100 M D/S OF STW	WSTW6194B	SX 7400 4220	SMRE	2I	EBB	3				6											6		S170	3				
		KINGSBRIDGE ESTUARY 250 M D/S OF STW	ED8A9	SX 7420 4200	SMRE	2I/9C	EBB	3				6								1		1	6		S170	3	S453	1	S456	
		NETWORK SITE - ESTUARY MOUTH	ED8A5	SX 7360 3785	SMRE	2I	EBB	1				1											1		S170	1	S449	1	S450	
10A	INTERNATIONAL PAINTS	TRADE EFFLUENT NO. 1	P10A/P/20	SX 5410 4797	SMRE	5A	EBB	3							3	3									S163	3	S164	3		
		SURFACE BOIL	P10A/P/20C	-	SMRE	2I	EBB	3							3										S451	3	S175	3		
		TRADE EFFLUENT NO. 2	P10A/P/26	SX 5409 4797	SMRE	5A	EBB	3							3	3									S163	3	S164	3		
		SURFACE BOIL	P10A/P/26C	SX 5409 4790	SMRE	2I	EBB	3							3										S451	3	S175	3		
11A	CARPENTERS ROCK	DISCHARGE FROM OUTFALL	*P11A/P/37*	SX 4924 5343	SMRE	4B	EBB	3		3			3		3	3	3	3					3	3	S151	3	S152	3	S161	
11A	CHELSON MEADOW	DISCHARGE FROM OUTFALL	P11A/P/45	SX 5040 5450	SMRE	6C	EBB	3		6					6										S153	6				
		SURFACE BOIL	P11A/P/46	SX 5050 5440	SMRE	2I	EBB	3							6										S175	6	S451	6		
11A	OTTERTON WHARF	DISCHARGE FROM OUTFALL	OUT4930	SX 4998 5401	SMRE	4B	EBB	3					3			3							3	3	S151	3				
		SURFACE BOIL	OUT4930C	-	SMRE	2I	EBB	3					3										3		S450	3				

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VOC = VOLATILE ORGANO-CHLORINE COMPOUNDS

OPWN = ORGANO-P & ORGANO-N COMPOUNDS
Cd L2 = Cd & List 2 METALS

	DISCHARGE	MONITORING POINT NAME	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	PURPOSE CODE	MAT. CODE	TIDAL STATE	** MAX SAMP FREQ	SAMPLING FREQUENCY Hg	Cd L2	As	OC	VOC	PCP	TBT	pH	OPWN	PY	BIOTA METALS	BIOTA OC'S	SEDIMENTS METALS	SEDIMENTS OC'S	DISCHARGES E.COLI	DISCHARGES SAN	ANALYSIS REQUIREMENT GROUP ARG	FREQ	ARG	FREQ	ARG	FREQ
11A	MARSH MILLS S.T.W.	FINAL EFFLUENT	WSTW4728FE	SX 5201 5628	SMRE	4S	EBB	6	3	6		6	6	6	6	6	6	6					6		S144	6	S157	3		
		SURFACE BOIL	WSTW4728C	SX 5200 5625	SMRE	2I	EBB	6	3	6		6											6		S167	6	S177	3		
		PLYM ESTUARY 100 M U/S OF STW	R11A021	SX 5190 5640	SMRE	2I	EBB	6	3	6		6											6		S167	6	S177	3		
		PLYM ESTUARY 100 M D/S OF STW	R11A023	SX 5190 5615	SMRE	2I	EBB	6	3	6		6											6		S167	6	S177	3		
		PLYM ESTUARY 250 M D/S OF STW	R11A022	SX 5010 5420	SMRE	2I/9C	EBB	6	3	6		6							1	1	1	1	6		S167	6	S177	3	S454	1
		NETWORK SITE - ESTUARY MOUTH	E11A1	SX 4900 5340	SMRE	2I	EBB	1	1	1		1					1						1		S167	1	S177	1		
11A	PLYMOUTH(RADFORD)	FINAL EFFLUENT	WSTW4726FE	SX 5019 5284	SMRE	4S	EBB	6				6	6	6	6	6	6						6		S149	6	S160	3	S164	3
		SURFACE BOIL	WSTW4726C	SX 5010 5285	SMRE	2I	EBB	6				6					3						6		S171	6	S180	3		
		HOOE LAKE 100M U/S OF STW	E11A4	SX 5030 5290	SMRE	2I	EBB	6				6											6		S171	6				
		HOOE LAKE 100M D/S OF STW	E11A5	SX 5010 5295	SMRE	2I	EBB	6				6											6		S171	6				
		HOOE LAKE 250M D/S OF STW	E11A6	SX 4985 5290	SMRE	2I	EBB	6				6											6		S171	6				
11A	PLYMOUTH (HILLACOMBE)	FINAL EFFLUENT	WSTW4720FE	SX 5040 5380	SMRE	4S	EBB	3				3	3	3		3							3	3	S149	3				
	STW	SURFACE BOIL	WSTW4720C	SX 5005 5390	SMRE	2I	EBB	3				3											3		S171	3				
11A	WEST HOE OUTFALL	DISCHARGE FROM OUTFALL	OUT4978	SX 4730 5350	SMRE	4B	EBB	3		3		3	3	3	3	3	3	3					3	3	S144	3	S156	3		
		SURFACE BOIL	OUT4978C	SX 4730 5340	SMRE	2J	EBB	3		3		3											3		S167	3				
11A	EASTERN KINGS	DISCHARGE FROM OUTFALL	OUT4940	SX 4670 5350	SMRE	4B	EBB	3		3	3					3							3		S154	3	S156	3		
		SURFACE BOIL	OUT4940C	SX 4675 5340	SMRE	2J	EBB	3		3	3												3		S169	3	S176	3		
		PLYMOUTH SOUND 100 M U/S OF OUTFALL	R12A006	SX 4640 5320	SMRE	2J	EBB	3		3													3		S169	3				
		PLYMOUTH SOUND 100 M D/S OF OUTFALL	R12A007	SX 4680 5330	SMRE	2J	EBB	3		3													3		S169	3				
		PLYMOUTH SOUND 250 M D/S OF OUTFALL	R12A018	SX 4700 5320	SMRE	2J/9C	EBB	3		3									1		1		3		S169	3	S458	1		
		NETWORK SITE - PLYMOUTH SOUND	R12A014	SX 4750 5180	SMRE	2J	EBB	1		1													1		S167	1	S178	1	S449	1
12A	MILLBROOK OUTFALL	DISCHARGE FROM OUTFALL	OUT4920	SX 4330 5220	SMRE	4B	EBB	3		3		3	3	3		3							3	3	S146	3	S158	3		
		SURFACE BOIL	OUT4920C	SX 4340 5220	SMRE	2J	EBB	3		3		3											3		S167	3				
12A	EDINBURGH STREET	DISCHARGE FROM OUTFALL	OUT4942	SX 4470 5420	SMRE	4B	EBB	3		3						3							3	3	S154	3	S158	3		
		SURFACE BOIL	OUT4942C	SX 4460 5420	SMRE	2J	EBB	3		3													3		S169	3				
12A	TORPOINT-THEVOL	FINAL EFFLUENT	WSTW4786FE	SX 4160 5420	SMRE	4S	EBB	6		6		6	6	6	6	6	6	6					6		S144	6				
		SURFACE BOIL	WSTW4786C	SX 4165 5410	SMRE	2I	EBB	6		6		6											6		S167	6				
		ST JOHN'S LAKE 100M U/S STW	E11A9	SX 4150 5400	SMRE	2I	EBB	6				6											6		S171	6				
		ST JOHN'S LAKE 100M D/S STW	E11A8	SX 4165 5410	SMRE	2I	EBB	6				6											6		S171	6				
		ST JOHN'S LAKE 250M D/S STW	E11A7	SX 4180 5400	SMRE	2I	EBB	6				6											6		S171	6				
12A	PARLBOROUGH STREET	DISCHARGE FROM OUTFALL	OUT4952	SX 4480 5600	SMRE	4B	EBB	3		3		3	3	3		3							3	3	S146	3	S158	3		
		SURFACE BOIL	OUT4952C	SX 4470 5600	SMRE	2J	EBB	3		3		3											3		S167	3				
12A	ALBERT ROAD OUTFALL	DISCHARGE FROM OUTFALL	OUT4922	SX 4470 5640	SMRE	4B	EBB	3		3		3	3	3		3							3	3	S146	3	S158	3		
		SURFACE BOIL	OUT4922C	SX 4460 5640	SMRE	2J	EBB	3		3		3	3										3		S167	3	S450	3		
12A	ST. LEVAN ROAD	DISCHARGE FROM OUTFALL	OUT4972	SX 4460 5590	SMRE	4B	EBB	3		3					3	3	3	3					3	3	S153	3	S156	3	S161	3
		SURFACE BOIL	OUT4972C	SX 4450 5590	SMRE	2I	EBB	3		3					3								3		S169	3	S451	3		

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OPON = ORGANO-P & ORGANO-N COMPOUNDS
Cd L2 = Cd & List 2 METALS

	DISCHARGE	MONITORING POINT NAME	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	PURPOSE CODE	MAT. CODE	TIDAL STATE	** MIN SAMP FREQ	SAMPLING FREQUENCY Hg	Cd L2	As	OC	VOC	PCP	TBT	pH	OPON	PY	BIOTA METALS	BIOTA OC'S	SEDIMENTS METALS	SEDIMENTS OC'S	DISCHARGES E.COLI	DISCHARGES SAN	ANALYSIS REQUIREMENT ARG	FREQ	ARG	FREQ	ARG	FR
12A	DEVONPORT DOCKYARD	DISCHARGE FROM OUTFALL	OUT4937	SX 4450 5620	SMRE	4B	EBB	3		3		3	3	3	3	3							3		S146	3	S164	3		
	NO.5	SURFACE BOIL	OUT4937C	SX 4440 5620	SMRE	2I	EBB	3		3		3			3								3		S167	3	S451	3		
12A	DEVONPORT DOCKYARD	DISCHARGE FROM OUTFALL	OUT4939	SX 4450 5690	SMRE	4B	EBB	3		3		3	3	3	3	3							3		S146	3	S164	3		
	NO.2	SURFACE BOIL	OUT4939C	SX 4448 5700	SMRE	2I	EBB	3		3		3			3								3		S167	3	S451	3		
12A	CAMELS HEAD STW	FINAL EFFLUENT	WSTW4722FE	SX 4530 5700	SMRE	4T	EBB	3		3		3	3	3	3	3	3	3					3		S144	3				
		SURFACE BOIL	WSTW4722C	SX 4530 5720	SMRE	2I	EBB	3		3		3			3		3						3		S167	3	S180	3	S451	
12B	ERNESETTLE STW	FINAL EFFLUENT	WSTW4724FE	SX 4450 6010	SMRE	4T	EBB	3		3	3	3	3	3	3	3	3	3					3		S144	3	S156	3		
		SURFACE BOIL	WSTW4724C	SX 4390 6045	SMRE	2I	EBB	3		3		3			3								3		S167	3	S451	3		
		TAMAR ESTUARY 100 M U/S OF STW	R12A008	SX 4410 6070	SMRE	2I	EBB	3				3											3		S171	3				
		TAMAR ESTUARY 100 M D/S OF STW	R12A017	SX 4385 6020	SMRE	2I	EBB	3				3											3		S171	3				
		TAMAR ESTUARY 250 M D/S OF STW	R12A016	SX 4380 6000	SMRE	2I	EBB	3				3											3		S171	3				
12A	SALTASH (COOMBE) STW	FINAL EFFLUENT	WSTW4763FE	SX 4300 5820	SMRE	4T	EBB	3		3		3		3	3	3	3	3					3		S146	3	S161	3		
		SURFACE BOIL	WSTW4763C	SX 4305 5815	SMRE	2I	EBB	3		3				3									3		S169	3	S449	3		
		NETWORK SITE - OFF DEVIL'S POINT	E12A17	SX 4580 5330	SMRE	2I	EBB	1		1		1					1						1		S167	1	S449	1	S450	
14A	LOOE STW	FINAL EFFLUENT	WSTW4660FE	SX 2440 5360	SMRE	4S	EBB	6		6		6	6	6	6	6	6	6					6		S144	6				
		SURFACE BOIL	WSTW4660C	SX 2485 5380	SMRE	2I	EBB	6		6		6											6		S167	6				
		TRIB.,WEST LOOE RIVER 100 M U/S OF STW	WSTW4660A	SX 2432 5352	SMRE	2I	EBB	6				6											6		S171	6				
		TRIB.,WEST LOOE RIVER 100 M D/S OF STW	WSTW4660B	SX 2446 5360	SMRE	2I	EBB	6				6											6		S171	6				
		TRIB.,WEST LOOE RIVER 250 M D/S OF STW	WSTW4660D	SX 2450 5361	SMRE	2I/BB	EBB	6				6									1		6		S171	6	S453	1		
		MOUTH OF TRIBUTARY	WSTW4660G	SX 2475 5375	SMRE	2I	EBB	6				6											6		S171	6				
		WEST LOOE RIVER 100M U/S TRIBUTARY	E14A8	SX 2477 5390	SMRE	2I	EBB	3				3											3		S171	3				
		WEST LOOE RIVER 100M D/S TRIBUTARY	E14A7	SX 2492 5382	SMRE	2I	EBB	3				3											3		S171	3				
		W.LOOE RIVER U/S CONFL. WITH E.LOOE R.	E14A6	SX 2512 5390	SMRE	2I	EBB	3				3											3		S171	3				
		NETWORK SITE - COMBINED LOOE ESTUARY	E14A1	SX 2540 5367	SMRE	2I	EBB	1				1											1		S167	1	S449	1	S450	
17A	PAR STW	FINAL EFFLUENT	WSTW1666FE	SX 0731 5230	SMRE	4T	EBB	3	3	3		3	3	3	3	3	3	3					3	3	S144	3	S158	3	S157	
		SURFACE BOIL	OUT2058C	SX 0731 5220	SMRE	2J	EBB	3	3	3		3											3		S167	3	S177	3		
		ST AUSTELL BAY - 100 M FROM SURFACE BOIL	OUT2058A	SX 0732 5224	SMRE	2J	EBB	3	3	3		3											3		S167	3	S177	3		
		ST AUSTELL BAY - 250 M FROM SURFACE BOIL	OUT2058B	SX 0732 5224	SMRE	2J	EBB	3	3	3		3											3		S167	3	S177	3		
17A	CHARLESTOWN OUTFALL	DISCHARGE FROM OUTFALL	OUT2016	SX 0391 5125	SMRE	4B	EBB	3		3						3	3	3					3	3	S154	3	S158	3	S161	
		SURFACE BOIL	OUT2016C	SX 0395 5120	SMRE	2J	EBB	3		3													3		S169	3				
19B	TRURO (NEWHAM) STW	FINAL EFFLUENT	WSTW0240FE	SW 8340 4330	SMRE	4S	EBB	6		6	6	6	6	6	6	6	6	6					6		S144	6	S156	6		
		SURFACE BOIL	WSTW0240C	SW 8340 4325	SMRE	2I	EBB	6		6	6	6											6		S167	6	S176	6		
		TRURO RIVER 100 M U/S OF STW	WSTW0240D	SW 8332 4345	SMRE	2I	EBB	6		6	6	6											6		S167	6	S176	6		
		TRURO RIVER 100 M D/S OF STW	WSTW0240E	SW 8350 4325	SMRE	2I	EBB	6		6	6	6											6		S167	6	S176	6		
		TRURO RIVER 250 M D/S OF STW	WSTW0240P	SW 8366 4320	SMRE	2I/BB	EBB	6		6	6	6								6	6		6		S167	6	S176	6	S454	
		NETWORK SITE - D/S TREGOTHNAN PARK CREEK	E19B15	SW 8500 4090	SMRE	2I	EBB	1		1	1	1					1	1					1		S167	1	S176	1		

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19A	FALMOUTH (MIDDLE PT.)	DISCHARGE FROM OUTFALL	OUT0420	SW 8260 3200	SMRE	4B	EBB	6		6		6	6	6	6	6	6	6					6	6	S144	6	S155	3		
		SURFACE BOIL	OUT0420C	SW 8270 3200	SMRE	2I	EBB	6		6		6											6		S167	6				
		CARRICK ROADS - 100 M FROM SURFACE BOIL	OUT0420A	SW 8260 3210	SMRE	2I	EBB	6				6											6		S171	6				
		CARRICK ROADS - 250 M FROM SURFACE BOIL	OUT0420B	SW 8260 3220	SMRE	2I/8B	EBB	6				6									1	1	6		S171	6	S454	1		
		NETWORK SITE - CARRICK ROADS	E19A21	-	SMRE	2I	EBB	1		1		1			1								1		S167	1	S449	1	S450	
19A	FALMOUTH (PENNANCE)	DISCHARGE FROM OUTFALL	OUT0421	SW 8040 3050	SMRE	4B	EBB	6		6		6	6	6	3	6	3						6		S146	6	S160	3	S164	
	OUTFALL	SURFACE BOIL	OUT0421C	SW 8050 3045	SMRE	2J	EBB	6		6		6	6		3		3						6		S167	6	S180	3	S451	
		SEA - 100 M FROM SURFACE BOIL	OUT0421B	SW 8063 3035	SMRE	2J	EBB	6				6											6		S171	6				
		SEA - 250 M FROM SURFACE BOIL	OUT0421D	SW 8076 3026	SMRE	2J	EBB	6				6											6		S171	6				
19A	FALMOUTH DOCKYARD	DISCHARGE FROM OUTFALL	P19A/P/1	SW 8180 3250	SMRE	5A	EBB	6		6					6										S152	6				
	COMBINED OUTFALL	SURFACE BOIL	P19A/P/1C	SW 8190 3265	SMRE	2I	EBB	6							6										S175	6	S451	6		
		DOCKS - 250M FROM SURFACE BOIL	P19A/P/1E	SW 8195 3285	SMRE	2I	EBB	6							6										S175	6	S451	6		
		CARRICK ROADS - 500 M FROM DOCK ENTRANCE	E19A20	SW 8255 3320	SMRE	2I	EBB	6							6										S175	6	S451	6		
19A	MILLION OUTFALL	DISCHARGE FROM OUTFALL	OUT0538	SW 6651 1902	SMRE	4B	EBB	3		3						3							3	3	S154	3	S158	3		
		SURFACE BOIL	OUT0538C	SW 6640 1902	SMRE	2J	EBB	3		3													3		S169	3				
	REGIONAL NETWORK SITE	SEA OFF "THE ENDS"	E21A1	SW 5600 2700		2J	EBB	1	1	1	1	1	1	1	1	1	1	1					1		S165	1				
21A	CASTLE GAYER OUTFALL	DISCHARGE FROM OUTFALL	OUT0507	SW 5209 3043	SMRE	4B	EBB	3		3		3	3		3	3	3	3					3		S151	3	S152	3	S161	
21A	PENZANCE (CHEANDOUR)	DISCHARGE FROM OUTFALL	OUT0554	SW 4803 3078	SMRE	4B	EBB	3		3		3	3	3	3	3	3	3					3	3	S144	3	S155	3		
	OUTFALL	SURFACE BOIL	OUT0554C	SW 4810 3070	SMRE	2J	EBB	3		3		3											3		S167	3				
		NETWORK SITE - REEMAN	OUT0554D	SW 4950 3050	SMRE	2J	EBB	1		1		1					1						1		S167	1				
21A	ALBERT PIER OUTFALL	DISCHARGE FROM OUTFALL	OUT0550	SW 4773 3039	SMRE	4B	EBB	3		3		3	3	3	3	3	3	3					3	3	S144	3	S155	3		
		SURFACE BOIL	OUT0550C	SW 4790 3040	SMRE	2J	EBB	3		3		3	3	3									3		S167	3	S449	3	S450	
		SEA - 100M FROM SURFACE BOIL	OUT0550A	SW 4790 3030	SMRE	2J	EBB	3		3		3											3		S167	3				
		SEA - 250M FROM SURFACE BOIL	OUT0550B	SW 4800 3037	SMRE	2J	EBB	3		3		3											3		S167	3				
21A	PENZANCE (MHERYTOWN)	DISCHARGE FROM OUTFALL	OUT0558	SW 4678 2924	SMRE	4B	EBB	3		3		3	3	3	3	3	3	3					3	3	S144	3	S155	3		
	OUTFALL	SURFACE BOIL	OUT0558C	SW 4690 2920	SMRE	2J	EBB	3		3		3											3		S167	3				
		SEA - 100M FROM SURFACE BOIL	OUT0558A	SW 4685 2917	SMRE	2J	EBB	3				3											3		S171	3				
		SEA - 250M FROM SURFACE BOIL	OUT0558B	SW 4700 2910	SMRE	2J	EBB	3				3											3		S171	3				
21A	NEWLYN (RIVER)	DISCHARGE FROM OUTFALL	OUT0543	SW 4636 2893	SMRE	4B	EBB	3		3		3	3	3		3	3	3					3	3	S146	3	S158	3	S161	
	OUTFALL	SURFACE BOIL	OUT0543C	SW 4650 2890	SMRE	2J	EBB	3		3		3	3										3		S167	3	S449	3		
		SEA - 100M FROM SURFACE BOIL	OUT0534A	SW 4655 2890	SMRE	2J	EBB	3				3											3		S171	3				
		SEA - 250M FROM SURFACE BOIL	OUT0534E	SW 4670 2815	SMRE	2J	EBB	3				3							1	1	1	1	3		S171	3	S459	1		
		NETWORK SITE - OFF SKILLY	OUT0543D	SW 4800 2770	SMRE	2J	EBB	1		1		1											1		S167	1	S449	1	S450	
22A	GEEVOR TIN MINE	DISCHARGE FROM OUTFALL	P22A/P/44	SW 3720 3490	SMRE	5J	EBB	6	6	6	6					6									S154	6	S158	6		
	OUTFALL	SURFACE BOIL	OUT0514C	SW 3710 3500	SMRE	2J	EBB	6	6	6	6					6									S172	6				
		SEA - 100 M FROM SURFACE BOIL	OUT0514D	SW 3700 3505	SMRE	2J	EBB	6	6	6	6					6									S172	6				
		SEA - 250 M FROM SURFACE BOIL	OUT0514B	-	SMRE	2I/8B	EBB	6	6	6	6					6					1				S172	6	S452	1		
		NETWORK SITE - 100 M AWAY FROM PLUME	OUT0514E	SW 3690 3480	SMRE	2I	EBB	1	1	1	1					1									S172	1				

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OC = ORGANOCHLORINE PESTICIDES
PCP = PENTACHLOROPHENOL
TBT = ORGANOTIN COMPOUNDS

PY = PYRETHROID PESTICIDES
SAN = ROUTINE SANITARY AND COD
VOC = VOLATILE ORGANO-CHLORINE COMPOUNDS

OP+ON = ORGANO-P & ORGANO-N COMPOUNDS
Cd L2 = Cd & List 2 METALS

	DISCHARGE	MONITORING POINT NAME	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	PURPOSE CODE	MAT. CODE	TIDAL STATE	** MIN SAMP FREQ	SAMPLING FREQUENCY Hg	CdL2	As	OC	VOC	PCP	TBT	pH	OP+ON	PY	BIOTA METALS	BIOTA OC'S	SEDIMENTS METALS	SEDIMENTS OC'S	DISCHARGES E.COLI	DISCHARGES SAN	ANALYSIS REQUIREMENT GROU ARG	FREQ	ARG	FREQ	ARG	FRE
22A	ST. IVES (BMALLZ)	DISCHARGE FROM OUTFALL	OUT0584	SW 5220 4100	SMRE	4B	EBB	3		3		3	3		3	3	3	3					3	3	S151	3	S152	3	S161	3
	OUTFALL	SURFACE BOIL	OUT0584C	-	SMRE	2J	EBB	3		3		3											3		S167	3				
22A	HAYLE S.T.W.	FINAL EFFLUENT	WSTW0084FE	SW 5460 3630	SMRE	4S	EBB	6		6	6	6	6	6	6	6	6	6					6		S144	6	S156	6		
		SURFACE BOIL	WSTW0084C	SW 5462 3645	SMRE	2I	EBB	6		6	6	6		3									6		S167	6	S176	6	S449	3
		HAYLE ESTUARY 100 M U/S OF STW	WSTW0084A	SW 5480 3640	SMRE	2I	EBB	6		6	6	6											6		S167	6	S176	6		
		HAYLE ESTUARY 100 M D/S OF STW	WSTW0084D	SW 5475 3655	SMRE	2I	EBB	6		6	6	6											6		S167	6	S176	6		
		HAYLE ESTUARY 250 M D/S OF STW	WSTW0084E	SW 5480 3667	SMRE	2I/8B	EBB	6		6	6	6							1		1		6		S167	6	S176	6	S458	1
		NETWORK SITE - OFF HAYLE TOWING	E22A4	SW 5500 3790	SMRE	2I	EBB	1		1	1	1					1	1					1		S167	1	S176	1	S449	1
23A	CAMBORNE, OUTFALL	DISCHARGE FROM OUTFALL	OUT0508	SW 6283 4237	SMRE	4B	EBB	6	6	6		6	6	6	6	6	6	6					6	6	S144	6	S155	3	S157	6
	(NORTH CLIFFS)	SURFACE BOIL	OUT0508C	SW 6218 4331	SMRE	2J	EBB	6	6	6		6	3	6									6		S167	6	S178	6	S449	3
		SEA - 100M FROM SURFACE BOIL	OUT0508D	SW 6215 4327	SMRE	2J	EBB	6	6														6		S177	6	S175	6		
		SEA - 250M FROM SURFACE BOIL	OUT0508E	SW 6215 4340	SMRE	2J	EBB	6	6														6		S177	6	S175	6		
23A	REDRUTH (FORDREATH)	DISCHARGE FROM OUTFALL	OUT0579	SW 6609 4613	SMRE	4B	EBB	3	3	3	3	3	3	3	3	3	3	3					3	3	S144	3	S155	3	S158	3
	OUTFALL	SURFACE BOIL	OUT0579C	SW 6610 4620	SMRE	2J	EBB	3	3	3	3	3	3										3		S167	3	S176	3	S178	3
		SEA - 100M FROM SURFACE BOIL	OUT0579D	SW 6605 4625	SMRE	2J	EBB	3		3													3		S169	3				
		SEA - 250M FROM SURFACE BOIL	OUT0579E	SW 6600 4635	SMRE	2J	EBB	3		3													3		S169	3				
23A	PENWITH (CLIGGA)	DISCHARGE FROM OUTFALL	OUT0560	SW 7459 5397	SMRE	4B	EBB	3			3	3	3	3		3							3	3	S149	3	S155	3	S156	3
	OUTFALL	SURFACE BOIL	OUT0560C	SW 7450 5400	SMRE	2J	EBB	3			3	3											3		S171	3	S176	3		
25A	NEWQUAY (TOWN HEAD)	DISCHARGE FROM OUTFALL	OUT2046	SW 8008 6297	SMRE	4B	EBB	3	3	3		3	3	3	3	3	3	3					3	3	S144	3	S155	3	S157	3
	OUTFALL	SURFACE BOIL	OUT2046C	SW 8010 6300	SMRE	2J	EBB	3	3	3		3											3		S167	3	S177	3		
		SEA - 100M FROM SURFACE BOIL	OUT2046D	SW 8023 6305	SMRE	2J	EBB	3		3													3		S169	3				
		SEA - 250M FROM SURFACE BOIL	OUT2046E	SW 8025 6315	SMRE	2J	EBB	3		3													3		S169	3				
25A	PROBYN OUTFALL	DISCHARGE FROM OUTFALL	OUT1940	SW 9218 7509	SMRE	4B	EBB	3				3	3	3		3							3	3	S149	3	S155	3		
		SURFACE BOIL	OUT1940C	SW 9218 7509	SMRE	2I	EBB	3				3		3									3		S171	3	S449	3		
		CAMEL ESTUARY 100M U/S OF SURFACE BOIL	E25A13	SW 9230 7470	SMRE	2I	EBB	3				3		3									3		S171	3	S449	3		
		CAMEL ESTUARY 100M D/S OF SURFACE BOIL	E25A14	SW 9225 7495	SMRE	2I	EBB	3				3		3									3		S171	3	S449	3		
		CAMEL ESTUARY 250M D/S OF SURFACE BOIL	E25A15	SW 9225 7510	SMRE	2I	EBB	3				3		3									3		S171	3	S449	3		
25A	WADEBRIDGE STW	FINAL EFFLUENT	WSTW1765FE	SW 9865 7200	SMRE	4S	EBB	3				3	3	3	3	3	3	3					3		S149	3	S161	3	S164	3
		SURFACE BOIL	WSTW1765C	-	SMRE	2I	EBB	3				3											3		S171	3				
		CAMEL ESTUARY 100M U/S OF SURFACE BOIL	E25A10	SW 9830 7335	SMRE	2I	EBB	3				3											3		S171	3				
		CAMEL ESTUARY 100M D/S OF SURFACE BOIL	E25A11	SW 9815 7353	SMRE	2I	EBB	3				3											3		S171	3				
		CAMEL ESTUARY 250M D/S OF SURFACE BOIL	E25A12	SW 9805 7365	SMRE	2I	EBB	3				3											3		S171	3				
25A	PORTHILLY STW	FINAL EFFLUENT	WSTW1714FE	SW 9354 7492	SMRE	4S	EBB	3				3	3	3		3							3		S149	3				
		SURFACE BOIL	WSTW1714C	SW 9354 7492	SMRE	2I	EBB	3				3		3									3		S171	3	S449	3		
27A	BUDE (COMPASS POINT)	DISCHARGE FROM OUTFALL	OUT3510	SS 1980 0630	SMRE	4B	EBB	3	3	3	3	3	3	3	3	3	3	3					3	3	S144	3	S155	3	S158	3
	OUTFALL	SURFACE BOIL	OUT3510C	SS 1970 0630	SMRE	2J	EBB	3	3	3		3	3										3		S167	3	S178	3		
		SEA - 100 M FROM SURFACE BOIL	OUT3510B	SS 1960 0634	SMRE	2J	EBB	3		3		3											3		S167	3				
		SEA - 250 M FROM SURFACE BOIL	OUT3510D	SS 1945 0635	SMRE	2J	EBB	3		3		3											3		S167	3				

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PCP = PENTACHLOROPHENOL
TBT = ORGANOTIN COMPOUNDS

PY = PYRETHROID PESTICIDES
SNW = ROUTINE SANITARY AND COD
VOC = VOLATILE ORGANO-CHLORINE COMPOUNDS

ORGN = ORGANO-P & ORGANO-N COMPOS
Cd L2 = Cd & List 2 METALS

	DISCHARGE	MONITORING POINT NAME	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	PURPOSE CODE	MPT. CODE	TIDAL STATUS	** MAX SAMP FREQ	SAMPLING FREQUENCY Hg	Cd L2	As	OC	VOC	PCP	TBT	pH	ORGN	PY	BIOTA METALS	BIOTA OC'S	SEDIMENTS METALS	SEDIMENTS OC'S	DISCHARGES E.COLI	SNW	ANALYSIS REQUIREMENT GROUP ARG	FREQ	ARG	FREQ	ARG	FREQ
29A	BIDEFORD F.S. OUTFALL	DISCHARGE FROM OUTFALL	OUT3428	SS 4559 2740	SMRE	4E	EBB	3		3	3	3	3	3	3	3	3	3					3	3	S143	3	S155	3	S156	3
		SURFACE BOIL	E29A14	SS 4584 2733	SMRE	2I	EBB	3		3		3											3		S166	3				
		TORRIDGE EST. 100 M U/S OF SURFACE BOIL	E29A11	SS 4578 2725	SMRE	2I	EBB	3		3		3											3		S166	3				
		TORRIDGE EST. 100 M D/S OF SURFACE BOIL	E29A12	SS 4585 2743	SMRE	2I	EBB	3		3		3											3		S166	3				
		TORRIDGE EST. 250 M D/S OF SURFACE BOIL	E29A13	SS 4583 2758	SMRE	2I/9C	EBB	3		3		3							1	1	1	1	3		S166	3	S459	1		
		NETWORK SITE - ESTUARY AT INSTOW	E29E1	SS 466 309	SMRE	2I	EBB	1		1		1											1		S166	1	S178	1	S449	1
30A	YELLAND STW	FINAL EFFLUENT	WSTW0340FE	SS 4755 3220	SMRE	4S	EBB	3		3	3	3	3	3	3	3	3	3					3		S143	3	S156	3		
		SURFACE BOIL	WSTW0340C	SS 4755 3220	SMRE	2I	EBB	3		3		3											3		S166	3				
		TDW ESTUARY 100M U/S OF SURFACE BOIL	E30A17	SS 4758 3255	SMRE	2I	EBB	3				3											3		S170	3				
		TDW ESTUARY 100M D/S OF SURFACE BOIL	E30A16	SS 4738 3220	SMRE	2I	EBB	3				3											3		S170	3				
		TDW ESTUARY 250M D/S OF SURFACE BOIL	E30A15	SS 4725 3215	SMRE	2I	EBB	3				3											3		S170	3				
30A	BRAUNTON (VELATOR)	FINAL EFFLUENT	WSTW0038FE	SS 4850 3550	SMRE	4S	EBB	3	3	6	3	6	6	6	6	6	6	6					6		S143	6	S158	3	S161	3
	STW	SURFACE BOIL	WSTW0038C	SS 4850 3545	SMRE	2I	EBB	3	3	6		6											6		S166	6	S177	3		
		RIVER CAEN 100 M U/S OF STW	E3083	SS 4853 3565	SMRE	2I	EBB	3		6		6											6		S166	6				
		RIVER CAEN 100 M D/S OF STW	E30A13	SS 4850 3540	SMRE	2I	EBB	3		6		6											6		S166	6				
		RIVER CAEN 250 M D/S OF STW	E30A12	SS 4840 3520	SMRE	2I	EBB	3		6		6											6		S166	6				
30A	KENDALL U.K. OUTFALL	DISCHARGE FROM OUTFALL	P30A/P/25	SS 4845 3530	SMRE	5A	EBB	3		3	3	3	3	3		3									S149	3	S156	3	S159	3
	(VERMEC LTD)	SURFACE BOIL	P30A/P/25C	SS 4845 3525	SMRE	2I	EBB	3		3		3													S167	3	S174	3		
30A	BARNSTAPLE (ASHFORD)	FINAL EFFLUENT	WSTW0013FE	SS 5320 3440	SMRE	4T	EBB	6	3	6	3	6	6	6	6	6		6					6		S143	6	S158	3		
	STW	SURFACE BOIL	WSTW0013C	SS 5295 3420	SMRE	2I	EBB	6	3	6		6											6		S166	6	S177	3		
		TDW ESTUARY 100 M U/S OF STW	E30A7	SS 5310 3393	SMRE	2I	EBB	6		6		6											6		S166	6				
		TDW ESTUARY 100 M D/S OF STW	E30A11	SS 5310 3420	SMRE	2I	EBB	6		6		6											6		S166	6				
		TDW ESTUARY 250 M D/S OF STW	E30A10	SS 5285 3430	SMRE	2I/9C	EBB	6		6		6							6	6	6	6	6		S166	6	S459	6		
		NETWORK SITE - ESTUARY MOUTH OFF CROW PT	E30A14	SS 4685 3180	SMRE	2I	EBB	1		1		1					1						1		S166		S178		S449	
30A	CROYDE/GEORGEHAM	DISCHARGE FROM OUTFALL	OUT3514	SS 4220 4030	SMRE	4B	EBB	3		3	3	3	3	3		3							3	3	S147	3	S156	3		
		SURFACE BOIL	OUT3514C	SS 4210 4030	SMRE	2J	EBB	3		3		3											3		S166	3				
		SEA - 100M FROM SURFACE BOIL	OUT3514D	-	SMRE	2J	EBB	3		3		3											3		S166	3				
		SEA - 250M FROM SURFACE BOIL	OUT3514E	-	SMRE	2J	EBB	3		3		3											3		S166	3				
30A	WOOLACOMBE STW	FINAL EFFLUENT	WSTW0332FE	SS 4515 4419	SMRE	4G	EBB	3		3		3	3		3	3	3	3					3	3	S151	3	S152	3	S161	3
30A	ROCK NOSE OUTFALL	DISCHARGE FROM OUTFALL	OUT3500	SS 4195 2917	SMRE	4G	EBB	3		3		3	3		3	3	3	3					3	3	S151	3	S152	3	S161	3
31A	ILFRACOMBE (CHEVNE)	DISCHARGE FROM OUTFALL	OUT3530	SS 5220 4800	SMRE	4G	EBB	3	3	3	3	3	3	3	3	3	3	3					3	3	S143	3	S158	3	S158	3
		SURFACE BOIL	OUT3530C	SS 5220 4810	SMRE	2J	EBB	3	3	3		3		3									3		S166	3	S177	3	S449	3
31A	COMBE MARTIN OUTFALL	DISCHARGE FROM OUTFALL	OUT3512	SS 5760 4770	SMRE	4B	EBB	3				3	3	3		3							3	3	S148	3	S155	3		
		SURFACE BOIL	OUT3512C	SS 5750 4775	SMRE	2J	EBB	3				3											3		S170	3				
					TOTAL NO. OF SAMPLE			1006	203	713	169	881	277	265	260	290	210	183	17	16	33	32	959	117						

6. SHELLFISH WATERS SUPPLY

6.1 EC DESIGNATED SHELLFISHERIES PROGRAMME

6.1.1 DESCRIPTION OF PROGRAMME

In the South West three shellfish areas have been designated under the EC Shellfish Water Directive. Sites are monitored in accordance with the requirements of the Directive. Two surveys are carried out per year at a specified point within each shellfish area. On each survey eight samples are collected at half hourly intervals around the time of high water. Samples of water are collected to measure a range of determinands including temperature, dissolved oxygen, pH, bacteria, metals and pesticides. 12 shellfish are also collected, pooled together and analysed for bacteria, metals and pesticides.

6.1.2 REASON FOR MONITORING:

The EC Shellfish Water Directive (79/923/EEC) lays down certain requirements for the quality of designated waters which support shellfish (bivalve and gastropod molluscs). It's purpose is to safeguard shellfish populations from the harmful consequences resulting from the discharge of polluting substances into the sea. It is aimed at protecting the shellfish populations themselves rather than the health of the consumers. The NRA must monitor in the designated areas to assess compliance with conditions laid down in an Annex to the Directive. The Annex specifies standards for specified parameters, which must be met in the water and in the shellfish flesh.

6.1.3 PROGRAMME INFORMATION

Numbers of sampling points	:		3
Numbers of samples	:		54
Frequency of use of Analysis			
Requirement Groups (ARGs) and total		S380	48 (2976)
numbers of determinands, in brackets	:	S381	6 (234)

Details of the composition of each ARG may be found in the NRA South West Region's ARG Dictionary.

6.1.4 EXPLANATION OF SCHEDULE CONTENTS

The following table details the sampling and analysis requirements for this programme. The User Reference Number (URN) is the unique identification code for the site. It allows sample results for the site to be retrieved from the Water Quality Archive (sample database). The National Grid Reference (NGR) defines the location of the site on a map. The Material Code details the type of sample collected, for example 2J is sea water, 2F is freshwater, 2I is estuarine water. It forms part of the information about each particular sample held on the Water Quality Archive. The Purpose Code details the reason why a particular sample has been collected. For example, SQMB relates to EC Directive monitoring - bathing waters. SMRE relates to routine monitoring

analysis (for EC Directives), SQMR relates to routine monitoring (in general). This code allows samples collected for particular reasons (from one or several sites) to be retrieved from the Water Quality Archive.

6.1.5 ENDORSEMENT

The contents of this programme have been agreed by the Water Quality Planner, Field Controller and Laboratory Controller.

1993 MONITORING PROGRAMME - EC SHELLFISHERIES
PROGRAMME LAST UPDATED : 23 OCT-199[illegible]

SITE	USER REF NO.	N.G.R.	SURVEY DATE	SAMPLING FREQ.	PURPOSE CODE	ANALYSIS (ARG NUMBERS)	MAT. CODE	NO. OF SAMPLES
HELFORD ESTUARY AT FRENCHMAN'S CREEK	E19A	SW 746 264	1992	2	SQMF	S380	2I	8
				2	SQMF	S381	9C	12 (POOLED)
FAL ESTUARY AT TURNAWARE BAR	E19B	SW 834 383	1992	2	SQMF	S380	2I	8
				2	SQMF	S381	9C	12 (POOLED)
PERCUIL RIVER	E19B	SW 857 339	1992	2	SQMF	S380	2I	8
				2	SQMF	S381	9C	12 (POOLED)

6.2 NON DESIGNATED SHELLFISHERIES PROGRAMME

6.2.1 DESCRIPTION OF PROGRAMME

Water and shellfish quality are monitored at twelve sites in the region using the same protocol as that adopted for the EC designated shellfisheries.

6.2.2 REASON FOR MONITORING

This programme is driven by the proposed system of SWQOs which will include a use for protecting commercially harvested shellfish.

There is a new EC Directive which is being implemented by the Department of Health and MAFF. Shellfish harvesting areas in this region will be designated under the Health Directive. It is probable that the NRA (as the Competent Authority for implementing the EC Shellfish Water Directive) will be required to designate harvesting areas under the Shellfish Water Directive and improve water quality where necessary to meet the standards in that Directive. This programme will provide data on the current water quality in these harvesting areas and an indication of how much water quality will need to be improved to comply with the Directive.

6.2.3 PROGRAMME INFORMATION

Total numbers of sampling points	:		12
Total numbers of samples	:		108
Frequency of use of Analysis Requirement Groups (ARGs) and total numbers of determinands, in brackets		S094	56 (3528)
		S095	7 (336)
		S380	40 (2480)
		S381	5 (195)

Details of the composition of each ARG may be found in the NRA South West Region's ARG Dictionary.

6.2.4 EXPLANATION OF SCHEDULE CONTENTS

The following table details the sampling and analysis requirements for this programme. The User Reference Number (URN) is the unique identification code for the site. It allows sample results for the site to be retrieved from the Water Quality Archive (sample database). The National Grid Reference (NGR) defines the location of the site on a map. The Material Code details the type of sample collected, for example 2J is sea water, 2F is freshwater, 2I is estuarine water. It forms part of the information about each particular sample held on the Water Quality Archive. The Purpose Code details the reason why a particular sample has been collected. For example, SQMB relates to EC Directive monitoring - bathing waters. SMRE relates to routine monitoring analysis (for EC Directives), SQMR relates to routine monitoring (in general). This code allows samples collected for particular reasons (from one or several sites) to be retrieved from the Water Quality Archive.

6.2.5 ENDORSEMENT

The contents of this programme have been agreed by the Water Quality Planner, Field Controller and Laboratory Controller.

1992 MONITORING PROGRAMME - NON DESIGNATED SHELLFISHERIES
PR[redacted]MME [redacted] UP[redacted]D : [redacted] [redacted]CT-[redacted]

SITE	DESIGNATION (1)	USER REF NO.	N.G.R.	SURVEY DATE	SAMPLING FREQ.	PURPOSE CODE	ANALYSIS GROUPS + DETERM'DS	MAT. CODE	NO. OF SAMPLES
EXE ESTUARY	D	E05A1	SX 9900 8190	1992	1*	SQMF SQMF	S094 S095	2I 9C	8 12 (POOLED)
TEIGN ESTUARY	B	E06A2	SX 8930 7240	1992	1*	SQMF SQMF	S094 S095	2I 9C	8 12 (POOLED)
DART ESTUARY	D	E07A18SF	SX 8580 5570	1992	1	SQMF SQMF	S094 S095	2I 9C	8 12 (POOLED)
KINGSBRIDGE ESTUARY	D	E08A1SF	SX 7450 4060	1992	1	SQMF SQMF	S094 S095	2I 9C	8 12 (POOLED)
AVON ESTUARY	D	E08A8SF	SX 6750 4495	1992	1	SQMF SQMF	S094 S095	2I 9C	8 12 (POOLED)
YEALM ESTUARY	D	E10A6SF	SX 5432 4991	1992	1	SQMF SQMF	S380 S381	2I 9C	8 12 (POOLED)
TAMAR ESTUARY	D	E12A7SF	SX 4271 5722	1992	1	SQMF SQMF	S380 S381	2I 9C	8 12 (POOLED)
FOWEY ESTUARY	D	E15A3SF	SX 1283 5285	1992	1	SQMF SQMF	S380 S381	2I 9C	8 12 (POOLED)
FAL ESTUARY	D	E19A6SF	SW 8253 3768	1992	1	SQMF SQMF	S380 S381	2I 9C	8 12 (POOLED)
CAMEL ESTUARY	B	E25A8	SW 9420 7430	1992	1	SQMF SQMF	S380 S381	2I 9C	8 12 (POOLED)
TAW ESTUARY	D	E30A2	SS 4820 3270	1992	1	SQMF SQMF	S094 S095	2I 9C	8 12 (POOLED)
TORRIDGE ESTUARY	D	E29C0	SS 4570 2730	1992	1	SQMF SQMF	S094 S095	2I 9C	8 12 (POOLED)

(1) KEY
A=LARGE (i.e. NATIONALLY IMPORTANT), NO RISK OF POLLUTION
B=LARGE, AT RISK FROM POLLUTION
C=LOCALLY IMPORTANT, NO RISK FROM POLLUTION
D=LOCALLY IMPORTANT, AT RISK FROM POLLUTION
1* = IF NO SURVEY COMPLETED IN 1991

7. RED LIST AND PARIS COMMISSION PROGRAMME

7.1 DESCRIPTION OF PROGRAMME

This programme has been drawn up to monitor nationally significant inputs from 20 rivers and 22 discharges to the sea. The rivers are monitored just above the tidal limit. Each site is sampled monthly for particular Red List (or Annex I) Substances (Table 1) and Substances listed by the Paris Commission (Table 2). Flows are also measured at each site to allow total loads for each substance to be estimated.

7.2 REASON FOR MONITORING

The final declaration of the Third North Sea conference, which took place in March 1990 in the Hague, contains wide-ranging measures for the protection of the North Sea. Amongst these are a number of actions agreed by Ministers to reduce the inputs of hazardous substances into the North Sea. As a matter of principle, it was agreed that discharges of all substances that are persistent, toxic and liable to bioaccumulate should be reduced to levels that are not harmful to man or nature before the year 2,000. As an interim step, it was agreed that a reduction of 50% or more should be achieved in the inputs of certain substances via rivers and estuaries between 1985 and 1995. These substances are listed in Annex 1 of the Declaration. The list covers all the substances on the Red List and existing List I, List II metals and dioxins. This list is often referred to as the "Extended Red List". For substances that cause a major threat to the marine environment, and at least for dioxins, mercury, cadmium and lead, it was agreed that reductions between 1985 and 1995 of total inputs (via all pathways) of the order of 70% or more should be achieved, provided that the use of "Best Available Technology" or other low waste technology measures enables such reductions to be made. A series of measures was also agreed upon to prevent PCBs and hazardous PCB substitutes from entering the marine environment.

The NRA is required to carry out the necessary monitoring to enable Government to report on progress in reducing the inputs of Annex I substances. Annual surveys of the loads of each of the substances have to be carried out on all the major river systems entering the North Sea. For the purposes of this programme, the limit of the North Sea extends as far west as the Lizard peninsula in Cornwall.

The Paris Commission (PARCOM) is responsible for administering the implementation of the "Convention for the Prevention of Marine Pollution from Land-based Sources" (The Paris Convention , 1974). The Convention lists 4 different categories of pollutants according to their persistence, toxicity, and potential to bioaccumulate, and sets out the requirements for pollution reduction and elimination. At its tenth meeting of June 1988 in Lisbon, the Commission reached an agreement that the parties of the Convention should undertake a comprehensive study on riverine inputs of certain substances to the sea. The NRA has the responsibility for conducting the PARCOM Survey each year in England and Wales. It did so far the first time 1990.

7.3 PROGRAMME INFORMATION

Numbers of sampling points	:		42
Numbers of samples	:		504
Frequency of use of Analysis Requirement Groups (ARGs) and total numbers of determinands, in brackets	:	S113	60 (900)
		S114	108 (1512)
		S115	36 (936)
		S116	48 (288)
		S117	36 (360)
		S119	24 (24)
		S120	144 (1008)
		S121	96 (288)
		S122	84 (168)
		S123	12 (48)
		S124	96 (1056)
		S125	12 (60)
		S126	132 (1452)
		S127	144 (1584)
		S460	12 (396)

Details of the composition of each ARG may be found in the NRA South West Region's ARG Dictionary.

7.4 EXPLANATION OF SCHEDULE CONTENTS

The following table details the sampling and analysis requirements for this programme. The User Reference Number (URN) is the unique identification code for the site. It allows sample results for the site to be retrieved from the Water Quality Archive (sample database). The National Grid Reference (NGR) defines the location of the site on a map. The Material Code details the type of sample collected, for example 2J is sea water, 2F is freshwater, 2I is estuarine water. It forms part of the information about each particular sample held on the Water Quality Archive. The Purpose Code details the reason why a particular sample has been collected. For example, SQMB relates to EC Directive monitoring - bathing waters. SMRE relates to routine monitoring analysis (for EC Directives), SQMR relates to routine monitoring (in general). This code allows samples collected for particular reasons (from one or several sites) to be retrieved from the Water Quality Archive.

7.5 ENDORSEMENT

The contents of this programme have been agreed by the Water Quality Planner, Field Controller and Laboratory Controller.

TABLE 1

Annex 1A of the Final Declaration of the Third International Conference on the Protection of the North Sea.

LIST OF PRIORITY HAZARDOUS SUBSTANCES

	Substances
1.	Mercury
2.	Cadmium
3.	Copper
4.	Zinc
5.	Lead
6.	Arsenic
7.	Chromium
8.	Nickel
9.	Drins
10.	HCH
11.	DDT
12.	Pentachlorophenol
13.	Hexachlorobenzene
14.	Hexachlorobutadiene
15.	Carbon Tetrachloride
16.	Chloroform
17.	Trifluralin
18.	Endosulfan
19.	Simazine
20.	Atrazine
21.	Tributyltin compounds
22.	Triphenyltin compounds
23.	Azinphos-ethyl
24.	Azinphos-methyl
25.	Fenitrothion
26.	Fenthion
27.	Malathion
28.	Parathion
29.	Parathion-methyl
30.	Dichlorvos
31.	Trichloroethylene
32.	Tetrachloroethylene
33.	Trichlorobenzene
34.	1,2-Dichloroethane
35.	Trichloroethane
36.	Dioxins

TABLE 2

Mercury (Hg)
Cadmium (Cd)
Copper (Cu)
Zinc (Zn)
Lead (Pb)
PCBs* (the following congeners: IUPAC Nos 28, 52, 101, 119, 153, 138, 180)
Gamma-HCH (Lindane)
Orthophosphates expressed as P
Total N
Total P
Suspended particulate matter (SPM)
Salinity (in saline waters)

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION
MONITORING PROGRAMME FOR RED LIST, ANNEX 1A AND PARIS COMMISSION SURVEYS - 1992
PROGRAMME LAST UPDATED : 03-FEB-1992
FILENAME : |CORYDON.SAMPLES_1991|REDLIST_PARIS_ANNEX1A_1992

OC ORGANO CHLORINE COMPOUNDS
OP ORGANO PHOSPHORUS COMPOUNDS
VOC VOLATILE ORGANOCHLORINE COMPOUNDS
PCP PENTACHLOROPHENOL
O'Sn ORGANO TIN
PCB POLY-CHLORINATED BIPHENYLS

SITE	MONITORING POINT NAME	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	SAMPLING FREQUENCY PER ANNUM	RED LIST /1A	PARIS	PURP. CODE	MTD. CODE	SAMPLING FREQUENCY Hg	O'Sn	Cu Cd Pb Zn	Cr Ni	As	OC	OP	VOC	PCB	PCP	NUTR	ANALYSIS REQUEST GROUP 1	2	3
STEMOUTH OUTFALL	DISCHARGE FROM OUTFALL	OUT8080	SY 1290 8720	12	\		SQMS	4B				12			12					S114	S122	
EXMOUTH STW	FINAL EFFLUENT	WSTW7600FE	SY 0240 8040	12		\	SQMS	4T			12	12							12	S120	S122	S127
EXETER, COUNTESS WEAR STW	FINAL EFFLUENT	WSTW7594FE	SX 9480 8900	12	\	\	SQMS	4S				12	12	12	12	12			12	S480	S121	S127
NEWTON ABBOT (BUCKLAND) STW	FINAL EFFLUENT	WSTW6250FE	SX 8830 7210	12	\	\	SQMS	4S				12	12							S121		
HOPES NOSE OUTFALL	DISCHARGE FROM OUTFALL	OUT6588	SX 9490 6370	12	\	\	SQMS	4B	12						12				12	S119	S114	S127
BRIXHAM POINT OUTFALL	DISCHARGE FROM OUTFALL	OUT6516	SX 9390 5460	12		\	SQMS	4B							12		12		12		S117	S127
PLYMOUTH (MARSH MILLS) STW	FINAL EFFLUENT	WSTW4728FE	SX 5201 5628	12	\	\	SQMS	4S				12		12	12				12	S115	S122	S127
WEST HOE OUTFALL	DISCHARGE FROM OUTFALL	OUT4978	SX 4730 5350	12	\		SQMS	4B				12								S122		
PLYMOUTH, CAMEL'S HEAD STW	FINAL EFFLUENT	WSTW4722FE	SX 4530 5700	12	\	\	SQMS	4T							12				12	S114	S127	
PLYMOUTH, MADFORD STW	FINAL EFFLUENT	WSTW4726FE	SX 5019 5284	12	\		SQMS	4T							12					S114		
PLYMOUTH, ERNESETTLE STW	FINAL EFFLUENT	WSTW4724FE	SX 4450 6010	12	\	\	SQMS	4T				12		12					12	S122	S113	S127
PAR STW	FINAL EFFLUENT	WSTW1666FE	SX 0731 5230	12	\	\	SQMS	4B							12	12			12	S114	S116	S127
MEVAGISSEY STW	FINAL EFFLUENT	WSTW1702FE	SX 0120 5090	12	\		SQMS	4B								12				S116		
FALMOUTH (PENNACE POINT) OUTFALL	DISCHARGE FROM OUTFALL	OUT0421	SW 8040 3050	12	\		SQMS	4B							12					S114		
FALMOUTH DOCKYARD COMBINED OUTFALL	DISCHARGE FROM OUTFALL	P19A/9/1	SW 8180 3250	12	\		SQMS	5A		12										S125		
GEEVOR MINE OUTFALL	DISCHARGE FROM OUTFALL	F22A/P/44	SW 3720 3490	12	\	\	SQMS	5G			12	12	12							S120	S121	
ONBORNE (NORTH CLIFFS) OUTFALL	DISCHARGE FROM OUTFALL	OUT0508	SW 6283 4237	12	\	\	SQMS	4B			12	12	12				12		12	S124	S117	S127
RETRUTH (FORNEATH) OUTFALL	DISCHARGE FROM OUTFALL	OUT0579	SW 6640 4520	12	\	\	SQMS	4B						12					12		S113	S127
NEWQUAY (TOWAN HEAD) OUTFALL	DISCHARGE FROM OUTFALL	OUT2046	SW 8008 6297	12	\	\	SQMS	4B			12	12	12						12	S120	S121	S127
BUDE (COMPASS POINT) OUTFALL	DISCHARGE FROM OUTFALL	OUT3510	SS 1980 0630	12	\		SQMS	4B								12				S116		
BARNSTAPLE (ASHFORD) STW	FINAL EFFLUENT	WSTW3013FE	SS 5320 3440	12	\		SQMS	4T								12				S116		
ILFRACOMBE, CHAMP OUTFALL	DISCHARGE FROM OUTFALL	OUT3530	SS 5220 4800	12	\		SQMS	4B				12		12						S113	S122	S127

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION
MONITORING PROGRAMME FOR RED LIST, ANNEX 1A AND PARIS COMMISSION SURVEYS - 1992
PROGRAMME LAST UPDATED : 03-FEB-1992
FILENAME : [CORTUNDA.SAMPLES_1991]REDLIST_PARIS_ANNEXIA_1992

OC ORGANO CHLORINE COMPOUNDS
OP ORGANO PHOSPHOROUS COMPOUNDS
VOC VOLATILE ORGANOCHLORINE COMPOUNDS
PCP PENTACHLOROPHENOL
O'Sn ORGANO TIN
PCB POLY-CHLORINATED BIPHENYLS

SITE	MONITORING POINT NAME	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	SAMPLING FREQUENCY PER ANNUM	RED LIST /1A	PARIS	PURP. CODE	MAT. CODE	SAMPLING FREQUENCY Hg	O'Sn	Cu Cd Pb Zn	Cr Ni	As	OC	OP	VOC	PCB	PCP	NUTR	ANALYSIS REQUEST GROUP 1	2	3
RIVER AXE	AXE BRIDGE	R02B002	SY 2590 9270	12		\	SQMS	ZP				12	12						12	S121	S126	S120
RIVER OTTER	OTTERTON FOOTBRIDGE	R04B007	SY 0790 8530	12		\	SQMS	ZP			12								12	S120	S126	
RIVER EXE	TRENG WEIR (HM POINT)	R05C004	SX 9250 9150	12	\	\	SQMS	ZP			12	12							12	S120	S122	S126
RIVER TEIGN	TEIGN BRIDGE	R06B002	SX9590073500	12	\	\	SQMS	ZP			12	12	12	12					12	S113	S124	S126
RIVER ERME	SEQUER'S BRIDGE	R09B003	SX 6320 5190	12		\	SQMS	ZP									12			S117		
RIVER PLYM	PLYM BRIDGE	R11B006	SX 5240 5870	12		\	SQMS	ZP											12	S120		
RIVER TAMAR	GUNNISLAKE BRIDGE (HM)	R12B003	SX 4330 7230	12	\	\	SQMS	ZP			12	12	12	12					12	S113	S124	S126
RIVER TAVY	LOPWELL DAM	R12C007	SX 4750 6500	12	\	\	SQMS	ZP			12	12	12		12				12	S124	S124	S126
RIVER LYNHER	NOTTER BRIDGE (HM)	R12Q007	SX 3850 6090	12	\	\	SQMS	ZP			12	12			12				12	S124	S114	S126
RIVER TIDDY	TIDEFORD	R12R004	SX 3440 5960	12	\		SQMS	ZP					12							S123		
RIVER FOWEY	RESTORMEL	R15B006	SX 1080 6130	12	\	\	SQMS	ZP	12		12									S120	S120	
RIVER PAR	ST BLAZEY BRIDGE	R16A005	SX 0710 5520	12		\	SQMS	ZP			12									S120		
RIVER FAL	TRESONEY	R19C006	SW 9200 4470	12	\	\	SQMS	ZP			12	12	12							S120	S121	
RIVER CAMON	DEVORAN BRIDGE (HM)	R19E004	SW 7910 3800	12	\	\	SQMS	ZP	12		12	12	12							S124		
HELSTON RIVER	POLNES BRY	R21A005	SW 4620 2900	12	\		SQMS	ZP							12					S114		
RIVER HAYLE	ST ERTH	R22B004	SW 5490 3510	12	\	\	SQMS	ZP			12	12	12							S120	S121	
RED RIVER	GWITHIAN TOWANS (HM)	R23A006	SW 5820 4220	12	\	\	SQMS	ZP	12		12	12	12							S120	S121	
RIVER CAMEL	GROGLEY HALT	R25B008	SX 0150 6860	12		\	SQMS	ZP			12								12	S120	S126	
RIVER TORRIDGE	BEAM BRIDGE (HM)	R29B034	SS 4730 2090	12	\	\	SQMS	ZP	12		12	12	12		12				12	S115	S124	S126
RIVER TAW	CHAPELTON FOOTBRIDGE (HM)	R30B014	SS 5820 2610	12	\	\	SQMS	ZP			12	12	12		12				12	S115	S124	S126

TOTAL NO. OF SAMPLES = 504

8. NATIONAL MARINE MONITORING PROGRAMME

8.1 DESCRIPTION OF PROGRAMME

3 estuary sites (in the Tamar estuary) and 1 (offshore)n site are monitored 4 times per year (seasonally) as part of a UK wide programme of sites. The 3 estuary sites have been chosen to represent the salinity regimes 0-10, 10-20 and 20-30 parts per thousand. The offshore, or intermediate, site is at the seaward extent of the estuary's influence. Samples of water are collected for nutrients, metals, pesticides, microbiology, salinity, temperature, oxygen, suspended solids, oyster embryo bioassay and chlorophyll-a samples of sediment are taken for metal content and oyster embryo bioassay. Samples of biota (mussels or oysters or cockles and seaweed) are collected for pesticides and metals. An annual survey of the benthic fauna (and associated sediment physical characteristics) at each site is also carried out.

A one off special survey is also required for a specified list of determinands.

8.2 REASON FOR MONITORING

This programme is a first step in the process of producing a national standard monitoring protocol for estuaries which will ultimately seek to rationalise existing monitoring programmes undertaken by the various NRA regions. It incorporates recommendations by the Marine Pollution Monitoring Management Group arising out of their review of the UK Marine Monitoring Programme. It also forms part of the Monitoring Master Plan of the North Sea Task Force (NSTF); it is the ultimate intention that NRA will be responsible for monitoring NSTF sampling locations in major estuaries and out to 3 miles (the NRA's statutory limit for Water Quality purposes). The programme represents a minimum scheme which must be achieved.

8.3 PROGRAMME INFORMATION

Numbers of sampling points	:		4
Numbers of samples	:		13
Frequency of use of Analysis Requirement Groups (ARGs) and total numbers of determinands, in brackets	:	S382	13 (741)
		S098	4 (84)
		S099	4 (120)
		S100	4 (32)

Details of the composition of each ARG may be found in the NRA South West Region's ARG Dictionary.

8.4 EXPLANATION OF SCHEDULE CONTENTS

The following table details the sampling and analysis requirements for this programme. The User Reference Number (URN) is the unique identification code for the site. It allows sample results for the site to be retrieved from the Water Quality Archive (sample database). The National Grid Reference (NGR) defines the location of the site on a map.

The Material Code details the type of sample collected, for example 2J is sea water, 2F is freshwater, 2I is estuarine water. It forms part of the information about each particular sample held on the Water Quality Archive. The Purpose Code details the reason why a particular sample has been collected. For example, SQMB relates to EC Directive monitoring - bathing waters. SMRE relates to routine monitoring analysis (for EC Directives), SQMR relates to routine monitoring (in general). This code allows samples collected for particular reasons (from one or several sites) to be retrieved from the Water Quality Archive.

8.5 ENDORSEMENT

The contents of this programme have been agreed by the Water Quality Planner, Field Controller and Laboratory Controller.

NATIONAL MARINE MONITORING PROGRAMME - [illegible]
PROGRAMME LAST UPDATED [illegible] 2[illegible]-19[illegible]

LOCATION	MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	PURPOSE CODE	MAT. CODE	TIDAL STATE	ANALYSIS FREQUENCY				
							ROUTINE WATER	SEDIMENT /BIOACC.	MICRO-BIOLOGY	BIOLOGY	OYSTER EMBRYO
TAMAR ESTUARY	HALTON QUAY	SF021	SX 4130 6550	SQMS	2I/8B/9C	HW NEAP	4	1	4	1	1
	WARREN POINT	SF022	SX 4410 6060	SQMS	2I/8B/9C	HW NEAP	4	1	4	1	1
	HAMOAZE	SF023	SX 4410 5600	SQMS	2I/8B/9C	HW NEAP	4	1	4	1	1
PLYMOUTH SOUND	INTERMEDIATE SITE (MBA Station E1)		50 02'N 04 22'W	SQMS	2J/8B/9C	-	1	1	-	1	1
			TOTAL NO. OF SAMPLES =				13	4	12	4	4

NOTES :

ARG NUMBERS : ROUTINE WATER/MICROBIOLOGY = S382
SEDIMENT/BIOACCUMULATION = S098, S099, S100

9. COPA VARIATION ORDER DISCHARGES PROGRAMME

9.1 DESCRIPTION OF PROGRAMME

394 discharges to tidal waters with deemed consents are sampled up to 12 times per year for various parameters including sanitary determinands, metals and pesticides. The total programme is split into two sections - one dealing with South West Water (SWWSL) discharges and the other with all private dischargers (other than the water company).

9.2 REASON FOR MONITORING

Deemed consents were granted to discharges (to tidal waters) in 1986 under a Variation Order to the 1974 Control of Pollution Act (COPA). Prior to this, these discharges were unconsented (there was no legislative requirement for them to be consented). A deemed consent allows the discharger to carry on discharging what they were doing so previously until such times as a properly determined consent is issued. The NRA has to determine all deemed consents (933 in total) by October 1992. As part of this exercise all the significant discharges are being sampled in order to get a true idea of what is contained in the discharge so that appropriate consent conditions are set.

9.3 PROGRAMME INFORMATION

i) South West Water discharges:

Number of sampling points	:		171
Number of samples	:		886
Frequency of use of Analysis Requirement Groups (ARGs) and total numbers of determinands, in brackets	:	S085	438 (4380)
		S087	192 (6528)
		S088	256 (9216)

ii) Non South West Water discharges:

Numbers of sampling points	:		223
Numbers of samples	:		669
Frequency of use of Analysis Requirement Groups (ARGs) and total numbers of determinands, in brackets	:	S084	603 (5427)
		S085	57 (570)
		S087	3 (102)
		S352	6 (18)

Details of the composition of each ARG may be found in the NRA South West Region's ARG Dictionary.

9.4 EXPLANATION OF SCHEDULE CONTENTS

The following table details the sampling and analysis requirements for this programme. The User Reference Number (URN) is the unique identification code for the site. It allows sample results for the site to be retrieved from the Water Quality Archive (sample database). The National Grid Reference (NGR) defines the location of the site on a map.

The Material Code details the type of sample collected, for example 2J is sea water, 2F is freshwater, 2I is estuarine water. It forms part of the information about each particular sample held on the Water Quality Archive. The Purpose Code details the reason why a particular sample has been collected. For example, SQMB relates to EC Directive monitoring - bathing waters. SMRE relates to routine monitoring analysis (for EC Directives), SQMR relates to routine monitoring (in general). This code allows samples collected for particular reasons (from one or several sites) to be retrieved from the Water Quality Archive.

9.5 ENDORSEMENT

The contents of this programme have been agreed by the Water Quality Planner, Field Controller and Laboratory Controller.

DATE FILE LAST UPDATED : 04-NOV-19[illegible]

	NAME OF DISCHARGE	U.R.N.	N.G.R. OF DISCHARGE	N.G.R. OF SAMPLE POINT
01A	THE COBB OUTFALL	OUT8052	SY 3389 9137	SY 3382 9134
04A	OTTERTON SEWAGE TREATMENT WORKS	WSTW7702FE	SY 0923 8409	SY 0912 8400
05A	HOLCOMBE OUTFALL	OUT6536	SX 9608 7534	SX 9589 7533
05A	EXTON (SOUTH) OUTFALL	OUT7921	SX 9810 8625	SX 9816 8635
05A	EXTON (NORTH) OUTFALL	OUT7920	SX 9770 8688	SX 9781 8693
06A	WITHY POINT COMBINED OUTFALL	OUT6510	SX 9319 6547	SX 9312 6543
06A	EAST QUAY OUTFALL TEIGNMOUTH	OUT6488	SX 9381 7278	SX 9383 7279
07A	DARTMOUTH NORTHERN SLIPWAY OUTFALL	OUT6418	SX 8795 5199	SX 8790 5194
07A	WARFLEET CREEK OUTFALL	OUT6424	SX 8828 5053	SX 8812 5035
07A	LOWER FERRY SLIP OUTFALL	OUT6442	SX 8813 5140	SX 8818 5140
07A	STOKE GABRIEL OUTFALL	OUT6476	SX 8477 5691	SX 8477 5693
07A	BAYARDS COVE OUTFALL	OUT6410	SX 8788 5109	SX 8787 5110
07A	CORONATION PARK OUTFALL	OUT6412	SX 8800 5175	SX 8788 5175
07A	TOFT QUAY OUTFALL KINGSWEAR	OUT6443	SX 8830 5082	SX 8831 5086
07A	WATERHEAD CREEK OUTFALL	OUT6444	SX 8853 5131	SX 8854 5128
07A	YACHT CLUB OUTFALL KINGSWEAR	OUT6446	SX 8812 5095	SX 8816 5085
08A	BATSON OUTFALL	OUT6462	SX 7360 3970	SX 7350 3972
08A	NORTH SANDS OUTFALL SALCOMBE	OUT6464	SX 7337 3798	SX 7313 3819
08A	SOUTH SANDS OUTFALL SALCOMBE	OUT6466	SX 7310 3751	SX 7280 3772
08A	EAST PORTLEMOUTH OUTFALL	OUT6430	SX 7406 3839	SX 7416 3838
08A	GALMPTON (HOPE COVE) STW EFFLUENT	WSTW6130FE	SX 6740 4001	SX 6830 4030
08A	BIGBURY ON SEA AND CHALLABOROUGH	WSTW6018FE	SX 6477 4440	SX 6520 4473
08A	AVETON GIFFORD STW EFFLUENT	WSTW6006FE	SX 6709 4204	SX 6741 4227
08A	THURLSTONE OUTFALL	OUT6576	SX 6709 4204	SX 6741 4227
08A	STRETE OUTFALL	OUT6572	SX 8443 4662	SX 8437 4685
08A	TORCROSS/STOKENHAM OUTFALL	OUT6580	SX 8241 4170	SX 8233 4192
08A	STOKE FLEMING (NORTH) OUTFALL	OUT6568	SX 8663 4817	SX 8660 4822
08A	STOKE FLEMING (SOUTH) OUTFALL	OUT6569	SX 8652 4803	SX 8652 4803
09A	HOLBETON STW EFFLUENT	WSTW4614FE	SX 6246 4979	SX 6200 5024
10A	WEMBURY S T W	WSTW4824FE	SX 5090 4829	SX 5108 4859
11A	ORESTON MARINE ROAD OUTFALL	OUT4960/3	SX 4994 5332	
11A	ARNOLDS POINT (PLYMOUTH) OUTFALL	OUT4924	SX 5042 5534	SX 5042 5534
11A	WEST MILLBAY (STONEHOUSE CULVERT)	OUT4980	SX 4679 5365	
11A	STENLAKE TERRACE OUTFALL	OUT4974	SX 5000 5466	SX 5000 5466
11A	ORESTON BAYLYS ROAD OUTFALL	OUT4960/6	SX 4985 5318	
11A	CATTEDOWN WHARF OUTFALL	OUT4930	SX 5006 5396	SX 4998 5401
11A	ORESTON PARK HOUSE,BAYLYS ROAD	OUT4960/5	SX 4992 5325	
11A	FISHERS NOSE OUTFALL (BARBICAN)	OUT4926	SX 4834 5360	
11A	ORESTON PARK VIEW OUTFALL	OUT4960/4	SX 4993 5327	
11A	CITADEL OUTFALL PLYMOUTH	OUT4934	SX 4808 5365	
11A	MACADAM ROAD (PRINCE ROCK) OUTFALL	OUT4953	SX 4967 5359	
11A	LAIRA BRIDGE (ST JUDES) OUTFALL	OUT4950	SX 5003 5438	
11A	MOUNTWISE PLYMOUTH OUTFALL	OUT4954	SX 4568 5398	
11A	THE QUAY, ORESTON OUTFALL	OUT4960/2	SX 5001 5350	
11A	EAST END ORESTON OUTFALL	OUT4960/1	SX 5001 5363	
11A	MUTTON COVE OUTFALL	OUT4956	SX 4529 5394	SX 4529 5395
11A	OCEAN COURT OUTFALL PLYMOUTH	OUT4958	SX 4584 5386	
12A	PLYMOUTH CORNWALL STREET	OUT4936	SX 4479 5469	
12A	CREMYLL OUTFALL	OUT4912	SX 4539 5350	
12A	MILLBROOK VILLAGE OUTFALL	OUT4917	SX 4309 5222	SX 4309 5217
12A	CAWSAND (SOUTH) OUTFALL	OUT4911	SX 4350 5015	
12A	TIDEFORD SEPTIC TANK	OUT4900	SX 3483 5951	
12A	MILLBROOK (ANDERTON) OUTFALL	OUT4921	SX 4288 5230	

REQUIRED No. by ARG		
S085	S087	S088S2
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S085 SANITARY
S087 SAN+COD+METS
S088 SAN+COD+MET+PEST+PCP/CTC

COPA SAMPLE REQUIREMENTS SWWS LTD DISCHARGES 1991
DATE FILE LAST UPDATED : 04-NOV-1991

	NAME OF DISCHARGE	U.R.N.	N.G.R. OF DISCHARGE	N.G.R. OF SAMPLE POINT	REQUIRED No. by ARG S085	S087	S088&2
12A	KINGSAND (NORTH) OUTFALL	OUT4918	SX 4363 5058				3
12A	KINGSAND (SOUTH) OUTFALL	OUT4919	SX 4352 5048				3
12A	PORTWRINKLE-CRAFTHOLE OUTFALL	OUT5064	SX 3562 5366	SX 3559 5384			3
12A	SOUTHDOWN C OUTFALL	OUT4987	SX 4362 5261			6	
12A	SOUTHDOWN B OUTFALL	OUT4986	SX 4351 5261			6	
12A	ANTONY S T W	WSTW4502FE	SX 3960 5520				3
12A	ST. GERMANS S T W.	WSTW4754FE	SX 3597 5710	SX 3597 5710			3
12A	WILLCOVE SEWERAGE	OUT4982	SX 4320 5645	SX 4312 5646			3
12A	PLYMOUTH POTTERY ROAD OUTFALL	OUT4962	SX 4478 5525				3
12A	LITTLE ASH GARDENS OUTFALL	OUT4951	SX 4361 5841			2	
12A	ST. BUDEAUX NORMANDY HILL OUTFALL	OUT4964	SX 4368 5865			2	
12A	ST BUDEAUX WHARF OUTFALL	OUT4968	SX 4365 5844			2	
13A	SEATON OUTFALL	OUT5080	SX 3030 5434	SX 3030 5434			3
13A	DOWNDERRY OUTFALL	OUT5010	SX 3205 5366	SX 3205 5366		2	
14A	POLPERRO OUTFALL	OUT5060	SX 2128 5082	SX 2126 5085		6	
15A	LLOYDS BANK (FOWEY) OUTFALL	OUT1916	SX 1266 5174	SX 1266 5174	6		
15A	READYMONEY OUTFALL	OUT1952	SX 1192 5095	SX 1178 5110		2	
15A	POLRUAN (CAR PARK) OUTFALL	OUT1948	SX 1269 5111	SX 1269 5111			6
15A	SURGERY (FOWEY) OUTFALL	OUT1917	SX 1268 5175	SX 1268 5175	6		
15A	POLRUAN (CASTLE) BLOCKHOUSE OUTFALL	OUT1946	SX 1234 5109	SX 1234 5109			3
15A	POLRUAN POOL OUTFALL	OUT1947	SX 1235 5112	SX 1235 5112			3
15A	DR O'REILLY'S (FOWEY) OUTFALL	OUT1954	SX 1197 5116	SX 1197 5116	6		
15A	TOWN QUAY CAFE (FOWEY) OUTFALL	OUT1913	SX 1262 5163	SX 1262 5163	12		
15A	P.J.DINER CAFE (FOWEY) OUTFALL	OUT1912	SX 1259 5161	SX 1259 5161	6		
15A	FOWEY BAKERY:FRONT OUTFALL	OUT1911	SX 1258 5161	SX 1258 5161	6		
15A	TOWN QUAY (FOWEY) OUTFALL	OUT1914	SX 1264 5168	SX 1263 5163	6		
15A	TROY CINEMA (FOWEY) OUTFALL	OUT1915	SX 1266 5173	SX 1266 5173	6		
15A	POST OFFICE FRONT (FOWEY) OUTFALL	OUT2000	SX 1271 5182	SX 1271 5182	6		
15A	4 NORTH STREET (FOWEY) OUTFALL	OUT2001	SX 1272 5183	SX 1272 5183	6		
15A	38 NORTH STREET (FOWEY) OUTFALL	OUT1934	SX 1277 5196	SX 1277 5196	6		
15A	30 NORTH STREET (FOWEY) OUTFALL	OUT1923	SX 1276 5193	SX 1276 5193	6		
15A	34 NORTH STREET (FOWEY) OUTFALL	OUT1924	SX 1277 5195	SX 1277 5195	6		
15A	48 NORTH STREET (FOWEY) OUTFALL	OUT1925	SX 1279 5199	SX 1279 5199	6		
15A	PRINCE ALBERT QUAY (FOWEY) OUTFALL	OUT1918	SX 1268 5177	SX 1288 5177	6		
15A	MISSION HALL (FOWEY) OUTFALL	OUT1919	SX 1270 5181	SX 1270 5181	6		
15A	22,NORTH STREET (FOWEY) OUTFALL	OUT1920	SX 1275 5190	SX 1275 5190	6		
15A	CUSTOM HOUSE (FOWEY) OUTFALL	OUT1921	SX 1271 5183	SX 1271 5183	6		
15A	PASSAGE STREET CAR PARK (FOWEY)	OUT1926	SX 1280 5204	SX 1280 5204	6		
15A	27 ESPLANADE (FOWEY) OUTFALL	OUT1931	SX 1247 5155	SX 1247 5155	6		
15A	A H WATTY (FOWEY) OUTFALL	OUT1932	SX 1273 5186	SX 1273 5186	6		
15A	36 NORTH STREET (FOWEY) OUTFALL	OUT1933	SX 1277 5196	SX 1277 5196	6		
15A	TOWER PARK (FOWEY) OUTFALL	OUT1930	SX 1210 5217	SX 1210 5217	6		
15A	PASSAGE STREET CRANE (FOWEY)OUTFALL	OUT1927	SX 1281 5211	SX 1281 5211	6		
15A	18 PASSAGE STREET (FOWEY) OUTFALL	OUT1928	SX 1281 5212	SX 1281 5212	6		
15A	RIVERSIDE HOTEL SLIPWAY (FOWEY)	OUT1929	SX 1279 5217	SX 1277 5216	6		
15A	PADDLING POOL (FOWEY) OUTFALL	OUT1902	SX 1235 5141	SX 1233 5147	6		
15A	WHITEHOUSE TOILETS (FOWEY) OUTFALL	OUT1903	SX 1240 5145	SX 1240 5145	6		
15A	FOWEY GALLENTS S C (FOWEY) OUTFALL	OUT2002	SX 1273 5185	SX 1273 5185	6		
15A	MR WISERS (FOWEY) OUTFALL	OUT1901	SX 1206 5117	SX 1206 5117	6		
15A	42 NORTH STREET (FOWEY) OUTFALL	OUT2004	SX 1278 5198	SX 1278 5198	6		
15A	SQUARE RIG (FOWEY) OUTFALL	OUT2003	SX 1274 5188	SX 1274 5188	6		
15A	GOLANT OUTFALL	OUT1900	SX 1236 5469	SX 1233 5470	6		
15A	25 ESPLANADE (FOWEY) OUTFALL	OUT1907	SX 1249 5156	SX 1249 5156	6		

S085 SANITARY
S087 SAN+COD+METS
S088 SAN+COD+MET+PEST+PCP/CTC

	NAME OF DISCHARGE	U.R.N.	N.G.R. OF DISCHARGE	N.G.R. OF SAMPLE POINT	REQUIRED No. by ARG		
					S085	S087	S0882
15A	33 ESPLANADE (FOWEY) OUTFALL	OUT1906	SX 1246 5154	SX 1246 5154	6		
15A	P/G EVA (FOWEY) OUTFALL	OUT1909	SX 1258 5160	SX 1258 5160	6		
15A	MARINA HOTEL QUAY (FOWEY) OUTFALL	OUT1908	SX 1250 5157	SX 1250 5157	6		
15A	BODINNICK OUTFALL	OUT1905	SX 1293 5215	SX 1293 5215			6
15A	41 ESPLANADE (FOWEY) OUTFALL	OUT1904	SX 1243 5152	SX 1243 5152	6		
15A	PENLEE	OUT0548	SX 1208 5123	SX 1204 5125	6		
15A	LERRYN CAR PARK "OVERFLOW"		SX 1401 5707		6		
16A	POLKERRIS OUTFALL	OUT2066	SX 0915 5196	SX 0930 5300	6		
17A	PORTHPEAN OUTFALL	OUT2068	SX 0323 5051	SX 0323 5051		6	
18A	GORRAN HAVEN OUTFALL	OUT2026	SX 0152 4146	SX 0152 4146		2	
18A	MEVAGISSEY OUTFALL	OUT2040	SX 0177 4492	SX 0177 4492			4
18A	PORTLOE OUTFALL	OUT0570	SW 9381 3828	SW 9381 3828	6		
19A	CHURCH COVE	OUT0410	SW 7207 1773	SW 2145 1275	6		
19A	MYLOR STEPPING STONES OUTFALL	OUT0400	SW 8050 3606	SW 8050 3606	6		
19A	CAERTHILLIAN COVE OUTFALL	OUT0503	SW 6943 1244	SW 6943 1244	6		
19A	PORTSCATHO 1 PENCABE DRANG OUTFALL	OUT0500	SW 8798 3514	SW 8798 3514	6		
19A	PORTSCATHO 2 OUTFALL	OUT0501	SW 8792 3527	SW 8791 3522	6		
19B	MALPAS OUTFALL OUTFALL	OUT0450	SW 8452 4266	SW 8452 4266		6	
21A	MOUSEHOLE OUTFALL	OUT0536	SW 4707 2613	SW 4697 2613	6		
21A	ST.MICHAELS MOUNT OUTFALL	OUT0532	SW 5165 3009	SW 5165 3009	6		
21A	NEWLYN ART GALLERY OUTFALL	OUT0541	SW 4643 2906	SW 4643 2906			3
21A	PENLEE OUTFALL	OUT0548	SW 4670 2837	SW 4670 2837		2	
21A	OPPOSITE SMUGGLERS HOTEL (NEWLYN)	OUT0505	SW 4635 2855	SW 4635 2855	6		
21A	MOUSEHOLE CULVERT OUTFALL	OUT0504	SW 4693 2637	SW 4693 2637	6		
21A	CHYMORVAH OUTFALL	OUT0506	SW 5256 3041	SW 5265 3046		2	
21A	THE GWELVA OUTFALL	OUT0515	SW 5153 3035	SW 5183 3035		2	
21A	CASTLE GAYER OUTFALL	OUT0507	SW 5209 3043	SW 5209 3043		2	
21A	ABBEY BASIN (PENZANCE) OUTFALL	OUT0549	SW 4749 3023	SW 4749 3023			3
21A	ROSS BRIDGE (PENZANCE) OUTFALL	OUT0557	SW 4758 3014	SW 4758 3014			6
21A	PERRANUTHNOE OUTFALL	OUT0562	SW 5352 2912	SW 5358 2916		2	
21A	SOUTH PIER (PENZANCE) OUTFALL	OUT0559	SW 4770 2995	SW 4770 2995			6
21A	ALBERT PIER OLD GAS WORKS	OUT0550/1	SW 4767 3058	SW 4767 3058			3
21A	ALBERT PIER SURFACE WATER	OUT0550/2	SW 4767 3056	SW 4767 3056			6
21A	BATTERY ROCKS (PENZANCE) OUTFALL	OUT0552	SW 4771 2989	SW 4768 2991	1		
21A	ALBERT PIER (STONE CULVERT NTH)	OUT0550/3	SW 4773 3039	SW 4764 3059			3
22A	PENDEEN OUTFALL	OUT0547	SW 3715 3493	SW 3717 3490		2	
22A	PORTHCURNO OUTFALL	OUT0566	SW 3897 2207	SW 3865 2225	2		
22A	BOTALLACK OUTFALL	OUT0502	SW 3617 3311	SW 3831 3310	6		
22A	PORTHLEDDEN COVE OUTFALL	OUT0510	SW 3542 3199	SW 3542 3199	6		
22A	SENNEN COUTE OUTFALL	OUT0590	SW 3495 2642	SW 3494 2634		2	
22A	ST IVES (BAMALUZ POINT) OUTFALL	OUT0584	SW 5228 4102	SW 5204 4083			4
22A	COT VALLEY	OUT0586	SW 3549 3100	SW 3560 3088		2	
23A	ST.AGNES (TREVAUNANCE COVE) OUTFALL	OUT0582	SW 7197 5181	SW 7197 5179		6	
25A	NEW POLZEATH OUTFALL	OUT1950	SW 9346 7957	SW 9346 7957		6	
25A	TREVILLING	OUT1974	SW 9859 7325	SW 9859 7325		6	
25A	GONVENA OUTFALL	OUT1922	SW 9895 7273	SW 9895 7273		2	
26A	BOSCASTLE OUTFALL	OUT2006	SX 0939 9162	SX 0970 9137		2	
26A	BOSSINEY OUTFALL	OUT2010	SX 0603 8935	SX 0603 8923	6		
26A	TINTAGEL OUTFALL	OUT2080	SX 0542 8937	SX 0529 8918		2	
28A	CLOVELLY CRUDE SEWAGE SEA OUTFALL	OUT3546	SS 3200 2473	SS 3194 2473		2	
29A	LINERS LANE (OLD KILN) OUTFALL	OUT3400	SS 4560 2814	SS 4560 2814		2	
29A	LINERS LANE CRUDE OUTFALL	OUT3452	SS 4563 2817	SS 4563 2817			3
29A	WHITEHALL, LANDCROSS - CRUDE DISCH.	OUT3401	SS 4576 2402	SS 4576 2402		6	

S085 SANITARY
S087 SAN+COD+METS
S088 SAN+COD+MET+PEST+PCP/CTC

COPA SAMPLE REQUIREMENTS SWWS Ltd DISCHARGES 1992
DATE FILE LAST UPDATED : 04-NOV-1991

	NAME OF DISCHARGE	U.R.N.	N.G.R. OF DISCHARGE	N.G.R. OF SAMPLE POINT	REQUIRED No. by ARG		
					S085	S087	S088
30A	BELL SLIP CRUDE OUTFALL	OUT3405	SS 4655 3023	SS 4655 3023			6
30A	WESTERN HILL/JUBILEE ROAD OUTFALL	OUT3404	SS 4599 3057	SS 4599 3057			3
30A	APPLEDORE POOL CRUDE OUTFALL	OUT3402	SS 4614 3110	SS 4616 3107			3
30A	WEST APPLEDORE CRUDE OUTFALL	OUT3403	SS 4603 3108	SS 4603 3108			3
30A	YELLAND STW OUTFALL	OUT3411	SS 4755 3220	SS 4755 3220			6
30A	DIDDYWELL SEPTIC TANK OUTFALL	OUT3410	SS 4518 3037	SS 4518 3037	6		
30A	ROCK NOSE SEA OUTFALL	OUT3500	SS 4195 2917	SS 4204 2914			6
30A	SOUTH ROAD CRUDE OUTFALL	OUT3406	SS 4655 3002	SS 4647 3006			6
30A	WOOLACOMBE SEA OUTFALL (ESPLANADE)	WSTW3332FE	SS 4515 4419	SS 4543 4399		6	
30A	RICHMOND FARM APPLEDORE SEPTIC TANK	OUT3408	SS 4520 3044	SS 4520 3044	3		
30A	HUBBASTONE SLIP CRUDE OUTFALL	OUT3407	SS 4657 2977	SS 4657 2977	6		
31A	HELE VILLAGE ILFRACOMBE OUTFALL	OUT3532	SS 5370 4807	SS 5372 4795			6
32A	LYNMOUTH OUTFALL	OUT3550	SS 7237 5006	SS 7239 4987		12	
	TOTALS				438	192	265
	TOTAL SITES	171					

S085 SANITARY
S087 SAN+COD+METS
S088 SAN+COD+MET+PEST+PCP/CTC

	NAME OF DISCHARGE	U.R.N.
06A	BEACON QUAY CAFE PUMPING STATION	P06A/P/400
06A	ABBEY SANDS CAFE PUMPING STATION	P06A/P/401
06A	FISH QUAY,GAILS HILL,TEIGNMOUTH	P06A/P/402
06A	NEW FISH QUAY, BRIXHAM	P06A/P/403
10A	FORT BOVISAND, PLYMOUTH	P10A/P/28
10A	FORT STADDON, PLYMOUTH	P10A/P/29
11A	D.W.O. DEPOT, PLYMOUTH	P11A/P/100
11A	CATTEWATER HARBOUR, PLYMOUTH	P11A/P/18
11A	HOE SWIMMING POOL	P11A/P/48
11A	MOUNTBATTEN, PLYMOUTH	P11A/P/85
11A	MOUNTBATTEN, PLYMOUTH	P11A/P/86
11A	MOUNTBATTEN, PLYMOUTH	P11A/P/87
11A	MOUNTBATTEN, PLYMOUTH	P11A/P/88
11A	MOUNTBATTEN, PLYMOUTH	P11A/P/89
11A	MOUNTBATTEN, PLYMOUTH	P11A/P/90
11A	MILLBAY PIER, PLYMOUTH	P11A/P/92
11A	TURNCHAPEL, PLYMOUTH	P11A/P/98
12A	PT. BULLOCK DIAMOND WORKS, DEFIANCE	P12A/P/101
	SITE, WILCOVE, TORPOINT	
12A	NORTH YARD DEVONPORT DOCKYARD	P12A/P/102
12A	NORTH YARD DEVONPORT DOCKYARD	P12A/P/103
12A	NORTH YARD DEVONPORT DOCKYARD	P12A/P/104
12A	NORTH YARD DEVONPORT DOCKYARD	P12A/P/105
12A	NORTH YARD DEVONPORT DOCKYARD	P12A/P/106
12A	NORTH YARD DEVONPORT DOCKYARD	P12A/P/107
12A	NORTH YARD DEVONPORT DOCKYARD	P12A/P/108
	COMBINED WITH:	
12A	NORTH YARD DEVONPORT DOCKYARD	P12A/P/109
12A	NORTH YARD DEVONPORT DOCKYARD	P12A/P/110
12A	MORICE YARD DEVONPORT DOCKYARD	P12A/P/111
12A	MORICE YARD DEVONPORT DOCKYARD	P12A/P/112
	COMBINED WITH:	
12A	MORICE YARD DEVONPORT DOCKYARD	P12A/P/128
12A	MORICE YARD DEVONPORT DOCKYARD	P12A/P/113
12A	SOUTH YARD DEVONPORT DOCKYARD	P12A/P/114
	COMBINED WITH:	
12A	SOUTH YARD DEVONPORT DOCKYARD	P12A/P/115
12A	SOUTH YARD DEVONPORT DOCKYARD	P12A/P/116
12A	SOUTH YARD DEVONPORT DOCKYARD	P12A/P/117
12A	SOUTH YARD DEVONPORT DOCKYARD	P12A/P/118
12A	SOUTH YARD DEVONPORT DOCKYARD	P12A/P/119
	COMBINED WITH:	
12A	SOUTH YARD DEVONPORT DOCKYARD	P12A/P/120
	COMBINED WITH:	
12A	SOUTH YARD DEVONPORT DOCKYARD	P12A/P/121
12A	SOUTH YARD DEVONPORT DOCKYARD	P12A/P/122
12A	SOUTH YARD DEVONPORT DOCKYARD	P12A/P/123
12A	SOUTH YARD DEVONPORT DOCKYARD	P12A/P/124
12A	SOUTH YARD DEVONPORT DOCKYARD	P12A/P/125
	COMBINED WITH:	
12A	SOUTH YARD DEVONPORT DOCKYARD	P12A/P/130
12A	SOUTH YARD DEVONPORT DOCKYARD	P12A/P/126
12A	SOUTH YARD DEVONPORT DOCKYARD	P12A/P/127

S084 SANITARY
S085 SANITARY, COD
S087 SANITARY, COD, METALS
S352 FREE CHLORINE, SOLIDS, TEMP

N.G.R. OF DISCHARGE	REQUIRED No. by ARG S084	S085	S087	S352
SX 9183 6311	3			
SX 9114 6368	3			
SX 9390 7270	3			
SX 9260 5653	3			
SX 4867 5070	3			
SX 4915 5196	3			
SX 5010 5385	3			
SX 4908 5357	3			
SX 4775 5360				3
SX 4882 5305	3			
SX 4870 5310	3			
SX 4858 5337	3			
SX 4861 5337	3			
SX 4895 5323	3			
SX 4905 5317	3			
SX 4701 5360	3			
SX 4944 5323	3			
SX 4325 5675	3			
SX 445355692	3			
SX 444205645	3			
SX 444565631	3			
SX 444945617	3			
SX 445905601	3			
SX 448295604	3			
SX 446845577	3			
SX 446995576				
SX 447265557	3			
SX 4487 5508	3			
SX 4478 5501	3			
SX 4474 5503				
SX 4478 5492	3			
SX 4473 5467	3			
SX 4472 5465				
SX 4470 5459	3			
SX 4470 5452	3			
SX 4469 5443	3			
SX 4468 5433	3			
SX 4478 5421				
SX 4481 5433				
SX 4480 5414	3			
SX 4487 5404	3			
SX 4499 5398	3			
SX 4501 5395	3			
SX 4502 5392				
SX 4511 5393	3			
SX 4515 5393	3			

TIDAL WATERS SAMPLING REQUIREMENT - NON SWWS DIS DISCHARGE
DATE FILE LAST UPDATED : 01-NOV-1991

	NAME OF DISCHARGE	U.R.N.
12A	MORICE YARD DEVONPORT DOCKYARD	P12A/P/129
12A	SOUTH YARD DEVONPORT DOCKYARD	P12A/P/131
12A	NORTH YARD DEVONPORT DOCKYARD	P12A/P/132
	COMBINED WITH:	
12A	NORTH YARD DEVONPORT DOCKYARD	P12A/P/138
12A	NORTH YARD DEVONPORT DOCKYARD	P12A/P/133
12A	NORTH YARD DEVONPORT DOCKYARD	P12A/P/134
	COMBINED WITH:	
12A	NORTH YARD DEVONPORT DOCKYARD	P12A/P/135
	COMBINED WITH:	
12A	NORTH YARD DEVONPORT DOCKYARD	P12A/P/136
12A	NORTH YARD DEVONPORT DOCKYARD	P12A/P/137
12A	NORTH YARD DEVONPORT DOCKYARD	P12A/P/139
12A	NORTH YARD DEVONPORT DOCKYARD	P12A/P/140
	COMBINED WITH:	
12A	NORTH YARD DEVONPORT DOCKYARD	P12A/P/143
12A	NORTH YARD DEVONPORT DOCKYARD	P12A/P/141
12A	NORTH YARD DEVONPORT DOCKYARD	P12A/P/142
12A	NORTH YARD DEVONPORT DOCKYARD	P12A/P/144
12A	R.N.A.D. BULLPOINT, PLYMOUTH	P12A/P/145
12A	R.N.A.D. ERNESETTLE, PLYMOUTH	P12A/P/146
12A	H.M.S. RALEIGH, PLYMOUTH	P12A/P/147
12A	H.M.S. RALEIGH, PLYMOUTH	P12A/P/148
12A	H.M.S. RALEIGH	P12A/P/149
12A	YONDERBURY POINT, PLYMOUTH	P12A/P/150
12A	PIER CELLARS, PLYMOUTH	P12A/P/151
12A	PIER CELLLARS, PLYMOUTH	P12A/P/152
12A	PIER CELLARS, PLYMOUTH	P12A/P/153
12A	TREGANTLE FORT, PLYMOUTH	P12A/P/154
12A	R.N.A.D BULLPOINT, PLYMOUTH	P12A/P/155
12A	H.M.S. RALEIGH, FIRE PAN, PLYMOUTH	P12A/P/33
12A	CREMYLL SHIPYARD	P12A/P/55
12A	PT. BULLOCK DIAMOND WORKS, DEFIANCE	P12A/P/76
	SITE, WILCOVE, TORPOINT	
14A	FRANK CURTIS & PAPE, LOOE	P14A/P/34
15A	PORT OF FOWEY	P15A/P/401
15A	PORT OF FOWEY	P15A/P/402
15A	PORT OF FOWEY	P15A/P/403
15A	PORT OF FOWEY	P15A/P/404
15A	PORT OF FOWEY	P15A/P/405
15A	PORT OF FOWEY	P15A/P/406
15A	PORT OF FOWEY	P15A/P/407
15A	PORT OF FOWEY	P15A/P/408
15A	PORT OF FOWEY	P15A/P/409
15A	PORT OF FOWEY	P15A/P/410
15A	PORT OF FOWEY	P15A/P/411
15A	PORT OF FOWEY	P15A/P/412
15A	PORT OF FOWEY	P15A/P/413
15A	PORT OF FOWEY	P15A/P/414
15A	PORT OF FOWEY	P15A/P/415
15A	PORT OF FOWEY	P15A/P/416
15A	PORT OF FOWEY	P15A/P/417
15A	PORT OF FOWEY	P15A/P/418

N.G.R. OF DISCHARGE	REQUIRED No. by ARG			
	S084	S085	S087	S352
SX 4473 5480	3			
SX 4482 5407	3			
SX 445305666	3			
SX 444875665				
SX 445855664	3			
SX 446855629	3			
SX 446955626				
SX 447305615				
SX 445415605	3			
SX 444525664	3			
SX 443555663	3			
SX 443905688				
SX 442905669	3			
SX 4425 5681	3			
SX 4451 5666	3			
SX 4341 5761	3			
SX 4401 5926	3			
SX 4220 5462	3			
SX 4275 5448	3			
SX 4290 5450	3			
SX 4410 5592	3			
SX 4407 4957	3			
SX 4410 4955	3			
SX 4413 4949	3			
SX 3825 5280	3			
SX 4389 5731	3			
SX 4200 5456	3			
SX 4530 5350	3			
SX 4329 567	3			
SX 2460 5390	3			
SX 1273 5228	3			
SX 1273 5227	3			
SX 1273 5227	3			
SX 1275 5240	3			
SX 1274 5245	3			
SX 1270 5248	3			
SX 1275 5247	3			
SX 1277 5249	3			
SX 1277 5249	3			
SX 1277 5249	3			
SX 1280 5250	3			
SX 1278 5251	3			
SX 1279 5251	3			
SX 1279 5252	3			
SX 1279 5254	3			
SX 1279 5256	3			
SX 1279 5256	3			
SX 1279 5257	3			

S084 SANITARY
S085 SANITARY, COD
S087 SANITARY, COD, METALS
S352 FREE CHLORINE, SOLIDS, TEMP

DATE FILE LAST UPDATED : [redacted]

	NAME OF DISCHARGE	U.R.N.
15A	PORT OF FOWEY	P15A/P/419
15A	PORT OF FOWEY	P15A/P/420
15A	PORT OF FOWEY	P15A/P/421
15A	PORT OF FOWEY	P15A/P/422
15A	PORT OF FOWEY	P15A/P/423
15A	PORT OF FOWEY	P15A/P/424
15A	PORT OF FOWEY	P15A/P/425
15A	PORT OF FOWEY	P15A/P/426
15A	PORT OF FOWEY	P15A/P/428
15A	PORT OF FOWEY	P15A/P/429
15A	PORT OF FOWEY	P15A/P/430
15A	PORT OF FOWEY	P15A/P/431
15A	PORT OF FOWEY	P15A/P/432
15A	PORT OF FOWEY	P15A/P/433
15A	PORT OF FOWEY	P15A/P/434
15A	PORT OF FOWEY	P15A/P/435
15A	PORT OF FOWEY	P15A/P/436
15A	PORT OF FOWEY	P15A/P/437
15A	PORT OF FOWEY	P15A/P/438
15A	RIVERSIDE HOTEL, 32 PASSAGE ST,FOWEY	P15A/P/451
15A	RIVERSIDE HOTEL, 32 PASSAGE ST,FOWEY	P15A/P/452
15A	RIVERSIDE HOTEL, 32 PASSAGE ST,FOWEY	P15A/P/453
15A	RIVERSIDE HOTEL, 32 PASSAGE ST,FOWEY	P15A/P/454
15A	RIVERSIDE HOTEL, 32 PASSAGE ST,FOWEY	P15A/P/455
15A	TOMS YARD, POLRUAN-BY-FOWEY	P15A/P/459
15A	BRAZEN ISLAND REPAIR YARD, POLRUAN	P15A/P/460
15A	LERRYN QUAY, LERRYN, LOSTWITHIEL	P15A/P/475
15A	CLIFF COTTAGE, ST. VEEP, LOSTWITHIEL	P15A/P/476
17A	BODELVA DRY, PAR DOCKS, PAR	P17A/P/401
17A	BODELVA DRY, PAR DOCKS, PAR	P17A/P/402
17A	BODELVA DRY, PAR DOCKS, PAR	P17A/P/403
17A	BODELVA DRY, PAR DOCKS, PAR	P17A/P/404
17A	BODELVA DRY, PAR DOCKS, PAR	P17A/P/405
17A	BODELVA DRY, PAR DOCKS, PAR	P17A/P/406
17A	BODELVA DRY, PAR DOCKS, PAR	P17A/P/407
17A	BODELVA DRY, PAR DOCKS, PAR	P17A/P/408
17A	BODELVA DRY, PAR DOCKS, PAR	P17A/P/409
17A	PORT OF PAR	P17A/P/410
17A	PORT OF PAR	P17A/P/411
17A	PAR DRYERS-ROTARIES	P17A/P/412
17A	PORT OF PAR	P17A/P/413
17A	PORT OF PAR	P17A/P/414
17A	PORT OF PAR	P17A/P/415
17A	PAR DRYERS-SLURRY PLANT	P17A/P/416
17A	PAR DRYERS-ROTARIES	P17A/P/417
17A	PAR DRYERS-BUELLS	P17A/P/418
17A	PAR DRYERS-BUELLS	P17A/P/419
17A	PAR DRYERS-BUELLS	P17A/P/420
17A	PAR DRYERS-SUMP AT GAS OIL INTAKE	P17A/P/421
17A	PAR DRYERS-ROTARIES	P17A/P/422
17A	PAR DRYERS-ROTARIES	P17A/P/423
17A	PORT OF PAR	P17A/P/424
17A	PORT OF PAR, PAR MOOR ROAD	P17A/P/425

N.G.R. OF DISCHARGE	REQUIRED No. by ARG			
	S084	S085	S087	S352
SX 1279 5258	3			
SX 1283 5260	3			
SX 1284 5263	3			
SX 1285 5259	3			
SX 1280 5278	3			
SX 1273 5280	3			
SX 1272 5280	3			
SX 1271 5280	3			
SX 1269 5282	3			
SX 1268 5282	3			
SX 1268 5282	3			
SX 1255 5285	3			
SX 1255 5285	3			
SX 1252 5288	3			
SX 1252 5288	3			
SX 1247 5293	3			
SX 1248 5292	3			
SX 1247 5292	3			
SX 1250 5290	3			
SX 1270 5185		3		
SX 1272 5186		3		
SX 1273 5187		3		
SX 1274 5188		3		
SX 1275 5189		3		
SX 1265 5107	3			
SX 1270 5110	3			
SX 1280 5590	3			
SX 1282 5540	3			
SX 0755 5297	3			
SX 0755 5297	3			
SX 0753 5296	3			
SX 0753 5295	3			
SX 0752 5295	3			
SX 0752 5294	3			
SX 0751 5293	3			
SX 0751 5293	3			
SX 0750 5292	3			
SX 0797 5290	3			
SX 0796 5289	3			
SX 0784 5308		3		
SX 0761 5308	3			
SX 0759 5305	3			
SX 0757 5304	3			
SX 0766 5267		3		
SX 0785 5306		3		
SX 0750 5282		3		
SX 0758 5277		3		
SX 0753 5280		3		
SX 0755 5280		3		
SX 0784 5310		3		
SX 0782 5313		3		
SX 0759 5305	3			
SX 0759 5287	3			

S084 SANITARY
S085 SANITARY, COD
S087 SANITARY, COD, METALS
S352 FREE CHLORINE, SOLIDS, TEMP

TIDAL WATERS SAMPLING REQUIREMENT - NON SWWS LTD DISCHARGES 1991
DATE FILE LAST UPDATED : 01-NOV-1991

	NAME OF DISCHARGE	U.R.N.	N.G.R. OF DISCHARGE
17A	PAR DRYERS, ROTARIES OFFICES	P17A/P/426	SX 0778 5320
17A	PORT OF PAR	P17A/P/427	SX 0795 5290
17A	PORT OF PAR	P17A/P/428	SX 0785 5301
19A	THE QUAY SHOP, ST. MAWES	P19A/P/404	SW 8473 3401
19A	PUBLIC TOILETS, ST.MAWES CASTLE	P19A/P/406	SW 8410 3270
19A	CHURCHTOWN FARM, MYLOR, FALMOUTH	P19A/P/413	SW 8235 3521
19A	IVAN KESSEL GARAGES, COMMERCIAL RD	P19A/P/414	SW 7857 3458
19A	THE BOAT HOUSE, COMMERCIAL RD,PENRYN	P19A/P/415	SW 7875 3446
19A	GARDEN MACHINERY, COMMERCIAL RD,	P19A/P/416	SW 7884 3437
19A	GRENVILLE MOTORS LTD,QUAY HILL,PENRYN	P19A/P/417	SW 7879 3420
19A	WESTLAND GEARS, PENRYN	P19A/P/418	SW 7877 3420
19A	UBM BUILDING SUPPLIES, FALMOUTH	P19A/P/419	SW 7897 3419
19A	FALMOUTH RD, PENRYN	P19A/P/420	SW 7922 3417
19A	WATERSIDE HOUSE,PENRYN,FALMOUTH	P19A/P/421	SW 7925 3416
19A	COUNTY & DUCHY WHARVES,THE DOCKS	P19A/P/422	SW 8152 3264
19A	THE OLD GRAIN STORE,THE DOCKS,FALMOUTH	P19A/P/423	SW 8216 3247
19A	FALMOUTH FISHSELLING CO.LTD.	P19A/P/424	SW 8181 3265
19A	TANK FARM SEPARATOR FACILITY	P19A/P/425	SW 8238 3226
19A	GWEEK POST OFFICE & STORES,GWEEK	P19A/P/426	SW 7063 2681
19A	GWEEK INN,GWEEK,HELSTON.	P19A/P/427	SW 7063 2679
19A	SEACORE LTD., LOWER QUAY, GWEEK,	P19A/P/428	SW 7078 2633
19A	HELFORD POST OFFICE & STORES,HELSTON	P19A/P/429	SW 7582 2616
19A	FIVE PILCHARDS INN, PORTHALLOW,	P19A/P/437	SW 7970 2316
19A	KENNACK SANDS CARAVAN PARK	P19A/P/441	SW 7312 1620
19A	KYNANCE BEACH CAFE, THE LIZARD	P19A/P/444	SW 6840 1340
19A	SMUGGLERS COTTAGE, KYNANCE COVE	P19A/P/445	SW 6841 1340
19A	MULLION COVE HOTEL, MULLION, HELSTON	P19A/P/446	SW 6656 1807
19A	POLDHU NURSING AND RESIDENTIAL HOME	P19A/P/448	SW 6629 1979
19A	RNAS CULDROSE, CORNWALL	P19A/P/35	
19B	PUBLIC CONVENIENCES MILLPOOL TRURO	P19B/P/401	SW 8268 4496
19B	DUCHY WHARF, TRURO	P19B/P/402	SW 8288 4484
19B	LIGHTERAGE QUAY, NEWHAM WHARF TRURO	P19B/P/403	SW 8334 4330
19B	BAR CREEK, MALPAS, TRURO	P19B/P/406	SW 8460 4290
19B	TOWER HOUSE, TRESILLIAN, TRURO	P19B/P/411	SW 8651 4611
19B	BOATHOUSE/OYSTER SHED,THE OWLS HOUSE FEOCK, TRURO	P19B/P/417	SW 8263 3877
19B	THE KINGS HEAD INN, RUAN LANIHORN	P19B/P/423	SW 8942 4193
21A	QUAYSIDE FISH CENTRE,PORTHLEVEN	P21A/P/401	SW 6277 2574
21A	BREAGESIDE QUAY,PORTHLEVEN	P21A/P/402	SW 6283 2567
21A	THE CASTLE, ST. MICHAELS MOUNT	P21A/P/407	SW 5150 2980
21A	DRY DOCK PREMISES,WHARF ROAD,PENZANCE	P21A/P/408	SW 4753 3011
21A	BATHING POOL, PROMENADE, PENZANCE	P21A/P/409	SW 4767 2986
21A	PUBLIC CONVENIENCES,SOUTH PIER,P.ZANCE	P21A/P/410	SW 4781 2996
21A	BUCCANEER SHELL SHOP, WHARF RD,P.ZANCE	P21A/P/411	SW 4764 3012
21A	DOCKERS REST, WHARF RD., PENZANCE	P21A/P/412	SW 4762 3011
21A	TOILETS SERVING COMMERCIAL PREMISES	P21A/P/413	SW 4776 3032
21A	TOLCARNE INN, TOLCARNE PLACE ,NEWLYN	P21A/P/414	SW 4630 2890
21A	FISH MARKET,THE STRAND,NEWLYN	P21A/P/415	SW 4630 2880
21A	NORTH PIER,NEWLYN HARBOUR	P21A/P/416	SW 4650 2890
21A	SOUTH PIER,NEWLYN HARBOUR	P21A/P/417	SW 4660 2840
21A	BOAT REPAIR SLIP,SOUTH PIER,NEWLYN	P21A/P/418	SW 4650 2840
21A	SOUTH PIER TOILETS,NEWLYN HARBOUR	P21A/P/419	SW 4672 2849
21A	NORTH PIER TOILETS	P21A/P/420	SW 4651 2877

S084 SANITARY
S085 SANITARY, COD
S087 SANITARY, COD, METALS
S352 FREE CHLORINE, SOLIDS, TEMP

REQUIRED No. by ARG			
S084	S085	S087	S352
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	NAME OF DISCHARGE	U.R.N.	N.G.R. OF DISCHARGE	REQUIRED No. by ARG			
				S084	S085	S087	S352
21A	HARBOUR OFFICE, NEWLYN, PENZANCE	P21A/P/421	SW 4634 2893	3			
21A	35, FORE STREET, NEWLYN	P21A/P/422	SW 4642 2848	3			
21A	37, FORE STREET, NEWLYN	P21A/P/423	SW 4643 2847	3			
21A	39, FORE STREET, NEWLYN	P21A/P/424	SW 4644 2847	3			
21A	(TOILETS) PENLEE QUARRY, NEWLYN,	P21A/P/425	SW 4700 2795	3			
21A	PENLEE QUARRY, NEWLYN	P21A/P/426	SW 4700 2795	3			
21A	PUBLIC CONVENIENCES,LAMORNA COVE	P21A/P/427	SW 4502 2411	3			
21A	THE MINACK THEATRE, PORTHCURNO,	P21A/P/432	SW 3874 2202	3			
22A	PENDOWER COTTAGE,PORTHGWARRA	P22A/P/401	SW 3718 2170	3			
22A	FIRST & LAST HOUSE, LANDS END	P22A/P/402	SW 3418 2525	3			
22A	DR. JOHNSONS HEAD, LANDS END	P22A/P/403	SW 3417 2507		3		
22A	NORTH OF GREEB ZAWN, LANDS END	P22A/P/404	SW 3424 2490	3			
22A	SMEATONS PIER	P22A/P/408	SW 5210 4070	3			
22A	THE PEDN-OLVA HOTEL, PORTHMINSTER	P22A/P/412	SW 5199 4034	3			
22A	GRIGGS QUAY, HAYLE	P22A/P/413	SW 5452 3640	3			
22A	OLD QUAY HOUSE INN, GRIGGS QUAY,HAYLE	P22A/P/415	SW 5456 3639	3			
25A	SURFSIDE BEACH SHOP, POLZEATH	P25A/P/407	SW 9370 7900	3			
25A	LITTLE DINHAM WOODLAND CARAVAN PK	P25A/P/409	SW 9695 7465	3			
25A	TREVILLING DEPOT,TREVILLING RD,W.BRIDGE	P25A/P/410	SX 9892 7240	3			
25A	COUNTY HALL, TRURO	P25A/P/411	SX 9915 7263	3			
25A	MARTYNS YARD, WADEBRIDGE	P25A/P/412	SW 9900 7260	3			
25A	MARTINS YARD, WADEBRIDGE	P25A/P/413	SW 9905 7255	3			
25A	BRIDGEND, WADEBRIDGE	P25A/P/414	SW 9920 7240	3			
25A	RUMBLETUMS, 12 EGLOSHAYLE RD, W.BRIDGE	P25A/P/417	SW 9927 7237		3		
25A	THE WORKSHOPS, BROOKDALE RD, WADEBRIDGE	P25A/P/418	SW 9885 7210	3			
25A	BROOKLYN GARAGE, WADEBRIDGE	P25A/P/419	SW 9890 7218	3			
25A	BROOKLYN GARAGE, WADEBRIDGE	P25A/P/420	SW 9887 7215	3			
25A	TREGWIDDEN, TREVOSE HEAD, PADSTOW	P25A/P/428	SW 8680 7640	3			
26A	DAIRY CREST FOODS DAVIDSTOW CAMELFORD (DETERMIND CONSENT - FOLIO No 315)	P26A/P/25	SX 1051 9183	3			
29A	BIDNA YARD, APPLEDORE	P29A/P/401	SS 4654 2973	3			
29A	NOMAR BC LTD (ELECTRO PLATING) BIDEFORDN	P29A/P/418	SS 4538 2612			3	
30A	FREMINGTON TRAINING CAMP,FREMINGTON	P30A/P/404	SS 5085 3350	3			
30A	ROYAL AIRFORCE CHIVENOR, WRAFTON	P30A/P/406	SS 4984 3385	3			
30A	MANOR FARM YELLAND LTD,FREMINGTON	P30A/P/409	SS 4919 3251		3		
	TOTALS			603	57	3	6
	TOTAL SITES -		223				

S084 SANITARY
S085 SANITARY, COD
S087 SANITARY, COD, METALS
S352 FREE CHLORINE, SOLIDS, TEMP

10. ESTUARY QUALITY SURVEY

10.1 ESTUARY QUALITY SURVEY PROGRAMME - CHEMISTRY

10.1.1 DESCRIPTION

Twenty-two estuary systems in the region are sampled up to four times per year at 115 sites to measure levels of nutrients, bacteria, dissolved oxygen, temperature, salinity, biochemical oxygen demand, chlorophyll A, turbidity and suspended solids. At each site, samples are collected at three depths (surface, mid depth and near bottom), four times during a tidal cycle (high water, mid ebb, low water and mid flood). In addition, water samples are collected for metals analysis at six sites in the Fal system. On one occasion during the year, samples of biota are collected for analysis of metals and pesticides.

Surveys are carried out on a seasonal basis. Three surveys per estuary will be carried out during 1992.

10.1.2 REASON FOR MONITORING

A system of Statutory Water Quality Objectives (SWQOs) (originally proposed in the 1989 Water Act) are to be introduced to all controlled waters (surface and ground) by the Secretary of State for the Environment. The proposed system will include a general classification of estuary quality. Estuaries will be classified in terms of chemical, biological and aesthetic quality. The system will provide an absolute measure of estuary quality. Each estuary will have an objective (ie target) classification set and a timetable in which to achieve it. In order to monitor improvement, the NRA must have a sufficient baseline of information of the current quality of each estuary against which improvements can be measured.

The EC Urban Wastewater Treatment Directive was issued in May 1991. Part of the requirements of this Directive are that the NRA must designate areas of surface fresh and tidal waters which are believed to be sensitive to eutrophication (nutrient enrichment) which may be improved by controlling inputs from large sewage treatment works. In order to be able to do this the NRA requires information on the levels of nutrients currently found in estuaries which may be controllable.

10.1.3 PROGRAMME INFORMATION

Numbers of sampling points	:		115
Numbers of samples	:		4206
Frequency of use of Analysis Requirement Groups (ARGs) and total numbers of determinands, in brackets	:	S101	1260 (25200)
		S383	2880 (48960)
		S457	30 (840)
		S172	36 (792)

Details of the composition of each ARG may be found in the NRA South West Region's ARG Dictionary.

10.1.4 EXPLANATION OF SCHEDULE CONTENTS

The following table details the sampling and analysis requirements for this programme. The User Reference Number (URN) is the unique identification code for the site. It allows sample results for the site to be retrieved from the Water Quality Archive (sample database). The National Grid Reference (NGR) defines the location of the site on a map. The Material Code details the type of sample collected, for example 2J is sea water, 2F is freshwater, 2I is estuarine water. It forms part of the information about each particular sample held on the Water Quality Archive. The Purpose Code details the reason why a particular sample has been collected. For example, SQMB relates to EC Directive monitoring - bathing waters. SMRE relates to routine monitoring analysis (for EC Directives), SQMR relates to routine monitoring (in general). This code allows samples collected for particular reasons (from one or several sites) to be retrieved from the Water Quality Archive..

10.1.5 ENDORSEMENT

The contents of this programme have been agreed by the Water Quality Planner, Field Controller and Laboratory Controller.

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02A	AXE	UPPER ESTUARY	1	E02A3	SY 2565 9205	1.4	Surfnce	SQMR	S101	2I	3	4	12
			1				Mid Depth	SQMR	S101	2I	3	4	12
			1				Near bottom	SQMR	S101	2I	3	4	12
		MID CHANNEL	2	E02A4	SY 2535 9075	2.2	Surfnce	SQMR	S101	2I	3	4	12
			2				Mid Depth	SQMR	S101	2I	3	4	12
			2				Near Bottom	SQMR	S101	2I	3	4	12
								SQMR	S457	9C	1	1	1
04A	OTTER	MID ESTUARY	1	E04A1	SY 0750 8300	2.5	Surfnce	SQMR	S101	2I	3	4	12
			1				Mid Depth	SQMR	S101	2I	3	4	12
			1				Near Bottom	SQMR	S101	2I	3	4	12
								SQMR	S457	9C	1	1	1
05A	EXE	LOWER WEAR	1	E05A17	SX 9490 8910	3.5	Surfnce	SQMR	S101	2I	3	4	12
			1				Mid Depth	SQMR	S101	2I	3	4	12
			1				Near Bottom	SQMR	S101	2I	3	4	12
			2	E05A7	SX 9680 8610	3.0	Surfnce	SQMR	S101	2I	3	4	12
			2				Mid Depth	SQMR	S101	2I	3	4	12
			2				Near Bottom	SQMR	S101	2I	3	4	12
		MID ESTUARY	3	E05A11	SX 9800 8475	3.5	Surfnce	SQMR	S101	2I	3	4	12
			3				Mid Depth	SQMR	S101	2I	3	4	12
			3				Near Bottom	SQMR	S101	2I	3	4	12
		COCKWOOD	4	E05A16	SX 9820 8080	4.5	Surfnce	SQMR	S101	2I	3	4	12
			4				Mid Depth	SQMR	S101	2I	3	4	12
			4				Near Bottom	SQMR	S101	2I	3	4	12
								SQMR	S457	9C	1	1	1
06A	TEIGN	UPPER ESTUARY	1	E06A3	SX 8665 7190	2.0	Surfnce	SQMR	S101	2I	3	4	12
			1				Mid Depth	SQMR	S101	2I	3	4	12
			1				Near Bottom	SQMR	S101	2I	3	4	12
		NETHERTON	2	E06A2	SX 8920 7230	3.5	Surfnce	SQMR	S101	2I	3	4	12

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		HOUSE											
			2				Mid Depth	SQMR	S101	2I	3	4	12
			2				Near Bottom	SQMR	S101	2I	3	4	12
		LOWER ESTUARY	3	E06A4	SX 9250 7260	4.0	Surface	SQMR	S101	2I	3	4	12
			3				Mid Depth	SQMR	S101	2I	3	4	12
			3				Near Bottom	SQMR	S101	2I	3	4	12
								SQMR	S457	9C	1	1	1
07A	DART	UPPER ESTUARY	1	E07A15	SX 8100 5950	4.1	Surface	SQMR	S101	2I	3	4	12
			1				Mid Depth	SQMR	S101	2I	3	4	12
			1				Near Bottom	SQMR	S101	2I	3	4	12
		SHARPHAM HOUSE	2	E07A16	SX 8320 5775	2.5	Surface	SQMR	S101	2I	3	4	12
			2				Mid Depth	SQMR	S101	2I	3	4	12
			2				Near Bottom	SQMR	S101	2I	3	4	12
		WHITE ROCK	3	E07A17	SX 8425 5650	2.5	Surface	SQMR	S101	2I	3	4	12
			3				Mid Depth	SQMR	S101	2I	3	4	12
			3				Near Bottom	SQMR	S101	2I	3	4	12
		LOWER GURROW POINT	4	E07A18	SX 8700 5595	3.0	Surface	SQMR	S101	2I	3	4	12
			4				Mid Depth	SQMR	S101	2I	3	4	12
			4				Near Bottom	SQMR	S101	2I	3	4	12
		HIGHER MOSS POINT	5	E07A19	SX 8775 5330	2.5	Surface	SQMR	S101	2I	3	4	12
			5				Mid Depth	SQMR	S101	2I	3	4	12
			5				Near Bottom	SQMR	S101	2I	3	4	12
		ONE GUN POINT	6	E07A20	SX 8870 5050	3.5	Surface	SQMR	S101	2I	3	4	12
			6				Mid Depth	SQMR	S101	2I	3	4	12
			6				Near Bottom	SQMR	S101	2I	3	4	12
								SQMR	S457	9C	1	1	1
08A	KINGSBRIDGE	PARK FARM	1	E08A2	SX 7385 4295	1.25	Surface	SQMR	S101	2I	3	4	12
			1				Mid Depth	SQMR	S101	2I	3	4	12

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			1				Near Bottom	SQMR	S101	2I	3	4	12
		OFF GERSTON POINT	2	E08A1	SX 7425 4130	1.75	Surface	SQMR	S101	2I	3	4	12
			2				Mid Depth	SQMR	S101	2I	3	4	12
			2				Near Bottom	SQMR	S101	2I	3	4	12
		MID ESTUARY	3	E08A3	SX 7470 3950	2.5	Surface	SQMR	S101	2I	3	4	12
			3				Mid Depth	SQMR	S101	2I	3	4	12
			3				Near Bottom	SQMR	S101	2I	3	4	12
		HILL BAY	4	E08A4	SX 7400 3855	1.0	Surface	SQMR	S101	2I	3	4	12
			4				Mid Depth	SQMR	S101	2I	3	4	12
			4				Near Bottom	SQMR	S101	2I	3	4	12
		OFF SOUTH SANDS	5	E08A5	SX 7360 3785	1.0	Surface	SQMR	S101	2I	3	4	12
			5				Mid Depth	SQMR	S101	2I	3	4	12
			5				Near Bottom	SQMR	S101	2I	3	4	12
		OFF BOLT HEAD	6	E08A6	SX 7335 3565	1.5	Surface	SQMR	S101	2I	3	4	12
			6				Mid Depth	SQMR	S101	2I	3	4	12
			6				Near Bottom	SQMR	S101	2I	3	4	12
								SQMR	S457	9C	1	1	1
08A	AVON	UPPER ESTUARY	1	E08A7	SX 6850 4682	3.0	Surface	SQMR	S101	2I	3	4	12
			1				Mid Depth	SQMR	S101	2I	3	4	12
			1				Near Bottom	SQMR	S101	2I	3	4	12
		LOWER ESTUARY	2	E08A8	SX 6700 4425	3.5	Surface	SQMR	S101	2I	3	4	12
			2				Mid Depth	SQMR	S101	2I	3	4	12
			2				Near Bottom	SQMR	S101	2I	3	4	12
								SQMR	S457	9C	1	1	1
09A	ERME	UPPER ESTUARY	1	E09A1	SX 6300 5075	2.0	Surface	SQMR	S101	2I	3	4	12
			1				Mid Depth	SQMR	S101	2I	3	4	12
			1				Near Bottom	SQMR	S101	2I	3	4	12

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		OFF PAMPLETE HOUSE	2	E09A2	SX 6198 4818	4.0	Surface	SQMR	S101	2I	3	4	12
			2				Mid Depth	SQMR	S101	2I	3	4	12
			2				Near Bottom	SQMR	S101	2I	3	4	12
								SQMR	S457	9C	1	1	1
10A	YEALM	UPPER ESTUARY	1	E10A7	SX 5600 5090	1.5	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
		OFF WARREN POINT	2	E10A6	SX 5520 5030	0.75	Surface	SQMR	S383	2I	3	4	12
			2				Mid Depth	SQMR	S383	2I	3	4	12
			2				Near Bottom	SQMR	S383	2I	3	4	12
		WEMBURY HOUSE	3	E10A5	SX 5435 4925	1.75	Surface	SQMR	S383	2I	3	4	12
			3				Mid Depth	SQMR	S383	2I	3	4	12
			3				Near Bottom	SQMR	S383	2I	3	4	12
		LOWER ESTUARY	4	E10A4	SX 5390 4770	2.25	Surface	SQMR	S383	2I	3	4	12
			4				Mid Depth	SQMR	S383	2I	3	4	12
			4				Near Bottom	SQMR	S383	2I	3	4	12
								SQMR	S457	9C	1	1	1
		COPPLETE CREEK	1	E10A3	SX 5405 5045	2.25	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
		NEWTON CREEK	1	E10A2	SX 5480 4785	1.75	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
11A	PLYM	BY SALTRAM HOUSE	1	E11A3	SX 5135 5560	2.0	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
		LAIRA	2	E11A2	SX 5015 5436	2.0	Surface	SQMR	S383	2I	3	4	12

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		BRIDGE											
			2				Mid Depth	SQMR	S383	2I	3	4	12
			2				Near Bottom	SQMR	S383	2I	3	4	12
		CATTEWATER	3	E11A1	SX 4900 5340	1.25	Surface	SQMR	S383	2I	3	4	12
			3				Mid Depth	SQMR	S383	2I	3	4	12
			3				Near Bottom	SQMR	S383	2I	3	4	12
								SQMR	S457	9C	1	1	1
12A	TAMAR	AT MORWELLHAM	1	E12B5	SX 4470 6970	5.5	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
		BY CALSTOCK	2	E12B4	SX 4295 6880	5.0	Surface	SQMR	S383	2I	3	4	12
			2				Mid Depth	SQMR	S383	2I	3	4	12
			2				Near Bottom	SQMR	S383	2I	3	4	12
		OFF PENTILLIE CASTLE	3	E12B8	SX 4120 6460	5.0	Surface	SQMR	S383	2I	3	4	12
			3				Mid Depth	SQMR	S383	2I	3	4	12
			3				Near Bottom	SQMR	S383	2I	3	4	12
		MID ESTUARY	4	E12B3	SX 4340 6395	2.75	Surface	SQMR	S383	2I	3	4	12
			4				Mid Depth	SQMR	S383	2I	3	4	12
			4				Near Bottom	SQMR	S383	2I	3	4	12
		OFF WARLEIGH POINT	5	E12B6	SX 4405 6130	2.0	Surface	SQMR	S383	2I	3	4	12
			5				Mid Depth	SQMR	S383	2I	3	4	12
			5				Near Bottom	SQMR	S383	2I	3	4	12
		TAMAR BRIDGE	6	E12B2	SX 4350 5905	1.7	Surface	SQMR	S383	2I	3	4	12
			6				Mid Depth	SQMR	S383	2I	3	4	12
			6				Near Bottom	SQMR	S383	2I	3	4	12
		OFF WILCOVE	7	E12A7	SX 4325 5730	1.5	Surface	SQMR	S383	2I	3	4	12
			7				Mid Depth	SQMR	S383	2I	3	4	12

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			7				Near Bottom	SQMR	S383	2I	3	4	12
		DOCKYARD	8	E12A6	SX 4425 5580	1.5	Surface	SQMR	S383	2I	3	4	12
			8				Mid Depth	SQMR	S383	2I	3	4	12
			8				Near Bottom	SQMR	S383	2I	3	4	12
		LOWER ESTUARY	9	E12A5	SX 4450 5400	2.0	Surface	SQMR	S383	2I	3	4	12
			9				Mid Depth	SQMR	S383	2I	3	4	12
			9				Near Bottom	SQMR	S383	2I	3	4	12
								SQMR	S457	9C	1	1	1
		MILLBROOK LAKE	1	E12A9	SX 4360 5240	3.0	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
		ST. JOHNS LAKE	1	E12A10	SX 4255 5425	3.0	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
12B	TAVY	NEAR BERE FERRERS	1	E12B7	SX 4615 6330	4.75	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
12A	LYNHER	OFF TREVOLLARD	1	E12A14	SX 3800 5830	4.25	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
		BY SHEVIOCK WOOD	2	E12A13	SX 3745 5625	2.5	Surface	SQMR	S383	2I	3	4	12
			2				Mid Depth	SQMR	S383	2I	3	4	12
			2				Near Bottom	SQMR	S383	2I	3	4	12
		MID ESTUARY	3	E12A12	SX 4000 5600	3.0	Surface	SQMR	S383	2I	3	4	12
			3				Mid Depth	SQMR	S383	2I	3	4	12
			3				Near Bottom	SQMR	S383	2I	3	4	12
		BY ANTONY	4	E12A11	SX 4220 5735	1.25	Surface	SQMR	S383	2I	3	4	12

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		PASSAGE											
			4				Mid Depth	SQMR	S383	2I	3	4	12
			4				Near Bottom	SQMR	S383	2I	3	4	12
								SQMR	S457	9C	1	1	1
		TIDDY	1	EI2A16	SX 3625 5850	4.25	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
		POLBATHICK	1	EI2A15	SX 3570 5700	2.0	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
12A	PLYMOUTH SOUND	BY THE BRIDGE	1	EI2A4	SX 4650 5215	3.0	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
		JENNYCLIFF BAY	2	EI2A8	SX 4830 5215	3.0	Surface	SQMR	S383	2I	3	4	12
			2				Mid Depth	SQMR	S383	2I	3	4	12
			2				Near Bottom	SQMR	S383	2I	3	4	12
			3	EI2A3	SX 4682 4950	1.5	Surface	SQMR	S383	2I	3	4	12
			3				Mid Depth	SQMR	S383	2I	3	4	12
			3				Near Bottom	SQMR	S383	2I	3	4	12
								SQMR	S457	9C	1	1	1
14A	LOOE - COMBINED		1	EI4A1	SX 2540 5367	1.3	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
								SQMR	S457	9C	1	1	1
	LOOE - EAST	UPPER ESTUARY	1	EI4A3	SX 2495 5655	2.0	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
		ST. MARTIN	2	EI4A2	SX 2515 5520	1.5	Surface	SQMR	S383	2I	3	4	12

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			2				Mid Depth	SQMR	S383	2I	3	4	12
			2				Near Bottom	SQMR	S383	2I	3	4	12
	LOOE - WEST	UPPER ESTUARY	1	E14A5	SX 2370 5450	2.0	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
		BY TRENANT WOOD	2	E14A4	SX 2475 5390	1.0	Surface	SQMR	S383	2I	3	4	12
			2				Mid Depth	SQMR	S383	2I	3	4	12
			2				Near Bottom	SQMR	S383	2I	3	4	12
15A	FOWEY	AT LOSTWITHIEL	1	E15A5	SX 1050 5970	1.0	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near bottom	SQMR	S383	2I	3	4	12
		AT NEWHAM	2	E15A4	SX 1085 5795	2.75	Surface	SQMR	S383	2I	3	4	12
			2				Mid Depth	SQMR	S383	2I	3	4	12
			2				Near bottom	SQMR	S383	2I	3	4	12
		OFF PENQUITE	3	E15A3	SX 1240 5595	2.3	Surface	SQMR	S383	2I	3	4	12
			3				Mid Depth	SQMR	S383	2I	3	4	12
			3				Near bottom	SQMR	S383	2I	3	4	12
		OFF GOLANT	4	E15A1	SX 1245 5425	1.5	Surface	SQMR	S383	2I	3	4	12
			4				Mid Depth	SQMR	S383	2I	3	4	12
			4				Near Bottom	SQMR	S383	2I	3	4	12
		BY CLIFF	5	E15A2	SX 1270 5525	3.3	Surface	SQMR	S383	2I	3	4	12
			5				Mid Depth	SQMR	S383	2I	3	4	12
			5				Near Bottom	SQMR	S383	2I	3	4	12
								SQMR	S457	9C	1	1	1
		OFF READYMONEY	6	E15A10	SX 1215 5100		Surface	SQMR	S383	2I	3	4	12
			6				Mid Depth	SQMR	S383	2I	3	4	12
			6				Near Bottom	SQMR	S383	2I	3	4	12

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PROGRAMME LAST UPDATED :- 24-OCT-1991

	ESTUARY	SITE DESCRIPTION	SITE NO.	U.R.N.	SAMPLE POINT N.G.R.	CLASSIFIED LENGTH (KM)	LOCATION OF MONITORING POINT	PURPOSE CODE	ANALYSIS GROUPS	MAT. CODE	SURVEY FREQUENCY PER ANNUM	SAMPLES PER SURVEY	MAXIMUM NO. OF SAMPLES
								SQMR	S457	9C	1	1	1
		PONT PILL	1	E15A6	SX 1380 5164	1.75	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near bottom	SQMR	S383	2I	3	4	12
		PENPOLL CREEK	1	E15A7	SX 1370 5435	2.25	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near bottom	SQMR	S383	2I	3	4	12
		LERRYN	1	E15A8	SX 1315 5675	2.3	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near bottom	SQMR	S383	2I	3	4	12
19A	PENRYN	TREVISSOME HOUSE	1	E19A11	SW 7950 3412	1.5	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
		FALMOUTH PIER	2	E19A10	SW 8110 3320	2.8	Surface	SQMR	S383	2I	3	4	12
			2				Mid Depth	SQMR	S383	2I	3	4	12
			2				Near Bottom	SQMR	S383	2I	3	4	12
								SQMR	S457	9C	1	1	1
19B	RESTRONGUET CREEK	CARCLEW	1A	E19A13	SW 7955 3870	1.5	Surface	SQMR	S383	2I	3	4	12
									S172	2I	3	2	6
			1A				Mid Depth	SQMR	S383	2I	3	4	12
			1A				Near Bottom	SQMR	S383	2I	3	4	12
		DEVORAN	1B	E19A14	SW 7956 3885	1.5	Surface	SQMR	S383	2I	3	4	12
									S172	2I	3	2	6
			1B				Mid Depth	SQMR	S383	2I	3	4	12
			1B				Near Bottom	SQMR	S383	2I	3	4	12
		BY HARCOURT	2	E19A12	SW 8113 3795	2.4	Surface	SQMR	S383	2I	3	4	12
									S172	2I	3	2	6
			2				Mid Depth	SQMR	S383	2I	3	4	12

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			2				Near Bottom	SQMR	S383	2I	3	4	12
								SQMR	S457	9C	1	1	1
19B	TRESILLIAN RIVER	BY TREFFRY	1	E19B12	SW 8622 4588	1.8	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
		BY ST. CLEMENT	2	E19B11	SW 8535 4380	3.0	Surface	SQMR	S383	2I	3	4	12
			2				Mid Depth	SQMR	S383	2I	3	4	12
			2				Near Bottom	SQMR	S383	2I	3	4	12
								SQMR	S457	9C	1	1	1
19B	TRURO RIVER	TRURO	1	E19B10	SW 8295 4425	1.25	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
		AT MALPAS	2	E19B9	SW 8372 4320	1.25	Surface	SQMR	S383	2I	3	4	12
			2				Mid Depth	SQMR	S383	2I	3	4	12
			2				Near Bottom	SQMR	S383	2I	3	4	12
		TREGONIAN	3A	E19B8	SW 8500 4255	1.75	Surface	SQMR	S383	2I	3	4	12
			3A				Mid Depth	SQMR	S383	2I	3	4	12
			3A				Near Bottom	SQMR	S383	2I	3	4	12
		WOODBURY	3B	E19B7	SW 8495 4242	1.75	Surface	SQMR	S383	2I	3	4	12
			3B				Mid Depth	SQMR	S383	2I	3	4	12
			3B				Near Bottom	SQMR	S383	2I	3	4	12
		OLD KEA	4	E19B3	SW 8483 4142	1.6	Surface	SQMR	S383	2I	3	4	12
									S172	2I	3	2	6
			4				Mid Depth	SQMR	S383	2I	3	4	12
			4				Near Bottom	SQMR	S383	2I	3	4	12
								SQMR	S457	9C	1	1	1
19B	FAL	RUAN RIVER	1	E19B6	SW 8870 4162	1.25	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12

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			1				Near Bottom	SQMR	S383	2I	3	4	12
		MID ESTUARY	2	E19B5	SW 8725 4058	4.25	Surface	SQMR	S383	2I	3	4	12
			2				Mid Depth	SQMR	S383	2I	3	4	12
			2				Near Bottom	SQMR	S383	2I	3	4	12
								SQMR	S457	9C	1	1	1
		BY POLGERRAN WOOD	3	E19B4	SW 8465 4035	1.25	Surface	SQMR	S383	2I	3	4	12
			3				Mid Depth	SQMR	S383	2I	3	4	12
			3				Near Bottom	SQMR	S383	2I	3	4	12
		KING HARRY FERRY	4	E19B2	SW 8418 3900	2.4	Surface	SQMR	S383	2I	3	4	12
									S172	2I	3	2	6
			4				Mid Depth	SQMR	S383	2I	3	4	12
			4				Near Bottom	SQMR	S383	2I	3	4	12
								SQMR	S457	9C	1	1	1
19A	PERCUIL RIVER	MID ESTUARY	1	E19A9	SW 8622 3468	2.5	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
		LOWER ESTUARY	2	E19A8	SW 8565 3300	3.5	Surface	SQMR	S383	2I	3	4	12
			2				Mid Depth	SQMR	S383	2I	3	4	12
			2				Near Bottom	SQMR	S383	2I	3	4	12
								SQMR	S457	9C	1	1	1
19A	CARRICK ROADS	MID CHANNEL	1	E19A6	SW 8300 3633	3.0	Surface	SQMR	S383	2I	3	4	12
									S172	2I	3	2	6
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
								SQMR	S457	9C	1	1	1
		OFF ST. MAWES	2	E19A7	SW 8300 3363	3.5	Surface	SQMR	S383	2I	3	4	12
			2				Mid Depth	SQMR	S383	2I	3	4	12
			2				Near Bottom	SQMR	S383	2I	3	4	12
								SQMR	S457	9C	1	1	1
19A	HELFORD	BONALLACK	1	E19A17	SW 7145 2590	2.0	Surface	SQMR	S383	2I	3	4	12

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		BARTON											
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
		BY GROYNE POINT	2	E19A16	SW 7400 2618	3.25	Surface	SQMR	S383	2I	3	4	12
			2				Mid Depth	SQMR	S383	2I	3	4	12
			2				Near Bottom	SQMR	S383	2I	3	4	12
		MOUTH OF ESTUARY	3	E19A15	SW 7752 2668	4.25	Surface	SQMR	S383	2I	3	4	12
			3				Mid Depth	SQMR	S383	2I	3	4	12
			3				Near Bottom	SQMR	S383	2I	3	4	12
								SQMR	S457	9C	1	1	1
		POLMHEVERAL CREEK	1	E19A19	SW 7390 2730	2.5	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
		PORTHRAVAS CREEK	1	E19A18	SW 7558 2765	1.5	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
22A	HAYLE	BY ST. ERTH	1	E22A3	SW 5500 3570	1.25	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
		ESTUARY MOUTH	2	E22A2	SW 5498 3800	2.5	Surface	SQMR	S383	2I	3	4	12
			2				Mid Depth	SQMR	S383	2I	3	4	12
			2				Near Bottom	SQMR	S383	2I	3	4	12
								SQMR	S457	9C	1	1	1
24A	GANNEL	UPPER ESTUARY	1	E24A2	SW 8080 6060	1.0	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
		LOWER ESTUARY	2	E24A1	SW 7930 6120	3.0	Surface	SQMR	S383	2I	3	4	12
			2				Mid Depth	SQMR	S383	2I	3	4	12

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			2				Near Bottom	SQMR	S383	2I	3	4	12
								SQMR	S457	9C	1	1	1
25A	CAMEL	BY PENDAVEY	1	E25A5	SX 0040 7110	4.0	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near Bottom	SQMR	S383	2I	3	4	12
		WADEBRIDGE	2	E25A4	SW 9849 7318	2.0	Surface	SQMR	S383	2I	3	4	12
			2				Mid Depth	SQMR	S383	2I	3	4	12
			2				Near Bottom	SQMR	S383	2I	3	4	12
		MID ESTUARY	3	E25A3	SW 9608 7410	3.4	Surface	SQMR	S383	2I	3	4	12
			3				Mid Depth	SQMR	S383	2I	3	4	12
			3				Near Bottom	SQMR	S383	2I	3	4	12
		BY PORTHILLY COVE	4A	E25A2	SW 9300 7555	3.75	Surface	SQMR	S383	2I	3	4	12
			4A				Mid Depth	SQMR	S383	2I	3	4	12
			4A				Near Bottom	SQMR	S383	2I	3	4	12
		BY PADSTOW	4B	E25A6	SW 9215 7560	2.75	Surface	SQMR	S383	2I	3	4	12
			4B				Mid Depth	SQMR	S383	2I	3	4	12
			4B				Near Bottom	SQMR	S383	2I	3	4	12
		THE DOOM BAR	5	E25A1	SW 9208 7775	2.5	Surface	SQMR	S383	2I	3	4	12
			5				Mid Depth	SQMR	S383	2I	3	4	12
			5				Near Bottom	SQMR	S383	2I	3	4	12
								SQMR	S457	9C	1	1	1
		LITTLE PETHERICK CREEK	1	E25A7	SW 9180 7350	2.4	Surface	SQMR	S383	2I	3	4	12
			1				Mid Depth	SQMR	S383	2I	3	4	12
			1				Near bottom	SQMR	S383	2I	3	4	12
29A	TAW/TORRIDGE	(TORRIDGE)	1	E29F0	SS 4623 2293	3.0	Surface	SQMR	S101	2I	3	4	12
			1				Mid Depth	SQMR	S101	2I	3	4	12
			1				Near Bottom	SQMR	S101	2I	3	4	12

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PROGRAMME LAST UPDATED :- 24-OCT-1991

	ESTUARY	SITE DESCRIPTION	SITE NO.	U.R.N.	SAMPLE POINT N.G.R.	CLASSIFIED LENGTH (KM)	LOCATION OF MONITORING POINT	PURPOSE CODE	ANALYSIS GROUPS	MAT. CODE	SURVEY FREQUENCY PER ANNUM	SAMPLES PER SURVEY	MAXIMUM NO. OF SAMPLES
		BY PILLMOUTH (TORRIDGE)	2	E29A7	SS 4615 2470	3.75	Surface	SQMR	S101	2I	3	4	12
			2				Mid Depth	SQMR	S101	2I	3	4	12
			2				Near Bottom	SQMR	S101	2I	3	4	12
30A		(TAW)	3	E30A5	SS 5610 3059	3.5	Surface	SQMR	S101	2I	3	4	12
			3				Mid Depth	SQMR	S101	2I	3	4	12
			3				Near Bottom	SQMR	S101	2I	3	4	12
		BARNSTAPLE (TAW)	4	E30A6	SS 5562 3310	1.75	Surface	SQMR	S101	2I	3	4	12
			4				Mid Depth	SQMR	S101	2I	3	4	12
			4				Near Bottom	SQMR	S101	2I	3	4	12
29A		AT BIDEFORD (TORRIDGE)	5	E29A8	SS 4580 2730	3.4	Surface	SQMR	S101	2I	3	4	12
			5				Mid Depth	SQMR	S101	2I	3	4	12
			5				Near Bottom	SQMR	S101	2I	3	4	12
		KNAPP HOUSE , NORTHAM (TORRIDGE)	6	E29A9	SS 4673 2938	2.5	Surface	SQMR	S101	2I	3	4	12
			6				Mid Depth	SQMR	S101	2I	3	4	12
			6				Near Bottom	SQMR	S101	2I	3	4	12
30A		OFF ASHFORD S.T.W. (TAW)	7	E30A7	SS 5310 3393	3.5	Surface	SQMR	S101	2I	3	4	12
			7				Mid Depth	SQMR	S101	2I	3	4	12
			7				Near Bottom	SQMR	S101	2I	3	4	12
		RAF CHIVENOR (TAW)	8	E30A8	SS 4885 3372	6.5	Surface	SQMR	S101	2I	3	4	12
			8				Mid Depth	SQMR	S101	2I	3	4	12
			8				Near Bottom	SQMR	S101	2I	3	4	12
		AIRY POINT (COMBINED)	9	E30A9	SS 4460 3280 (SS 4570 3160)	6.0	Surface	SQMR	S101	2I	3	4	12
			9				Mid Depth	SQMR	S101	2I	3	4	12
			9				Near Bottom	SQMR	S101	2I	3	4	12
								SQMR	S457	9C	1	1	1

TOTAL LENGTH = 292.3

MAXIMUM SAMPLES = 4206

10.2 ESTUARY QUALITY SURVEY PROGRAMME - BIOLOGY

10.2.1 DESCRIPTION OF PROGRAMME

Each estuary system in the region is being sampled both subtidally and intertidally to assess the composition of the biological communities within the sediments.

Samples are collected from specific sites in each estuary for analysis of benthic macroinvertebrates (the larger animals living in the sediments). At the same time samples are also collected for sediment grain size analysis, sediment organic carbon and nitrogen content and salinity. Sampling methods for intertidal surveys involve taking a series of cores at mid tide level; subtidal methods require the use of a boat and grab sampler to take the samples. The animals present are all identified to species level (where possible). Sampling occurs from early summer to autumn each year.

10.2.2 REASONS FOR MONITORING

As with the chemistry side of the estuary classification programme, this work is driven by the proposed system of Statutory Water Quality Objectives. Biological data provides a good indication of the overall "health" of an estuary. It is essential that a baseline of biological information exists for each estuary against which changes in community structure (caused by changes in water quality) can be assessed.

10.2.3 PROGRAMME INFORMATION

Numbers of sampling points	:	68
Numbers of samples	:	340

10.2.4 ENDORSEMENT

The contents of this programme have been agreed by the Water Quality Planner.

11. COASTAL MONITORING SURVEY PROGRAMME

11.1 DESCRIPTION OF PROGRAMME

Six areas around the region's coastline are being sampled at 30 sites up to five times per year to measure levels of nutrients, bacteria, dissolved oxygen, biochemical oxygen demand, temperature, salinity, turbidity, suspended solids, chlorophyll A and algal identification.

In each area, five sample points are located at approximately 1km intervals along a line drawn perpendicular from the coast. The line runs from 150m offshore (the first sampling point) out to the statutory water quality limit for the NRA. Samples are taken from the surface and approximately mid depth position.

11.2 REASON FOR MONITORING

As with the estuary classification programme, this work is driven by the proposed system of Statutory Water Quality Objectives. The proposed system will include a general classification of coastal water quality. Coastal waters will be classified in terms of chemical, microbiological and aesthetic quality. In order to be able to monitor change in water quality the NRA must have a baseline of information on the current quality against which changes can be measured. Where quality does not meet the proposed target classification a programme of improvements can be put into action.

11.3 PROGRAMME INFORMATION

Numbers of sampling points :		30
Numbers of samples :		220
Frequency of use of Analysis		
Requirement Groups (ARGs) and total	S101	100 (2000)
numbers of determinands, in brackets :	S383	120 (2040)

Details of the composition of each ARG may be found in the NRA South West Region's ARG Dictionary.

11.4 EXPLANATION OF SCHEDULE CONTENTS

The following table details the sampling and analysis requirements for this programme. The User Reference Number (URN) is the unique identification code for the site. It allows sample results for the site to be retrieved from the Water Quality Archive (sample database). The National Grid Reference (NGR) defines the location of the site on a map. The Material Code details the type of sample collected, for example 2J is sea water, 2F is freshwater, 2I is estuarine water. It forms part of the information about each particular sample held on the Water Quality Archive. The Purpose Code details the reason why a particular sample has been collected. For example, SQMB relates to EC Directive monitoring - bathing waters. SMRE relates to routine monitoring analysis (for EC Directives), SQMR relates to routine monitoring (in general). This code allows samples collected for particular reasons (from one or several sites) to be retrieved from the Water Quality Archive.

11.5 ENDORSEMENT

The contents of this programme have been agreed by the Water Quality Planner, Field Controller and Laboratory Controller.

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION
COASTAL MONITORING PROPOSALS (COASTAL CLASSIFICATION) - 1992 MONITORING PROGRAMME
PROGRAMME LAST UPDATED : 23-OCT-1991

SAMPLING LOCATION	SAMPLE POINT LOCATION (DISTANCE FROM MLWS), km	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	SAMPLING FREQUENCY (PER ANNUM)	NUMBER OF SAMPLES	TOTAL NUMBERS OF SAMPLES	ANALYSIS
EAST DEVON - OFF SIDMOUTH	0.15 (150m)	E03A1	SY 1280 8710	5	2	10	S101, ALGAL SAMPLE
	1.0	E03A2	SY 1300 8630	5	2	10	S101
	2.0	E03A3	SY 1320 8530	5	2	10	S101
	3.0	E03A4	SY 1340 8430	5	2	10	S101
	4.0	E03A5	SY 1360 8330	5	2	10	S101
SOUTH DEVON - OFF DAWLISH	0.15 (150m)	E05A20	SX 9675 7675	5	2	10	S101, ALGAL SAMPLE
	1.0	E05A21	SX 9735 7625	5	2	10	S101
	2.0	E05A22	SX 9820 7565	5	2	10	S101
	3.0	E05A23	SX 9900 7505	5	2	10	S101
	4.0	E05A24	SX 9980 7450	5	2	10	S101
SOUTH CORNWALL - OFF PAR BEACH	0.15 (150m)	E17A1	SX 0830 5310	3	2	6	S383, ALGAL SAMPLE
	1.0	E17A2	SX 0830 5220	3	2	8	S383
	2.0	E17A3	SX 0830 5120	3	2	6	S383
	3.0	E17A4	SX 0840 5020	3	2	6	S383
	4.0	E17A5	SX 0840 4920	3	2	6	S383
SOUTH CORNWALL - OFF MULLION	0.15 (150m)	E19A32	SW 6650 1780	3	2	6	S383, ALGAL SAMPLE
	1.0	E19A33	SW 6560 1780	3	2	6	S383
	2.0	E19A34	SW 6460 1780	3	2	6	S383
	3.0	E19A35	SW 6360 1780	3	2	6	S383
	4.0	E19A36	SW 6260 1780	3	2	6	S383
LANDS END - OFF SENNEN	0.15 (150m)	E22A5	SW 3460 2640	3	2	6	S383, ALGAL SAMPLE
	1.0	E22A6	SW 3400 2690	3	2	6	S383
	2.0	E22A7	SW 3320 2760	3	2	6	S383
	3.0	E22A8	SW 3250 2830	3	2	6	S383
	4.0	E22A9	SW 3170 2890	3	2	6	S383
NORTH CORNWALL - OFF NEWQUAY	0.15 (150m)	E25A16	SW 8160 6210	3	2	6	S383, ALGAL SAMPLE
	1.0	E25A17	SW 8110 6280	3	2	6	S383
	2.0	E25A18	SW 8040 6350	3	2	6	S383
	3.0	E25A19	SW 7980 6430	3	2	6	S383
	4.0	E25A20	SW 7920 6510	3	2	6	S383
					TOTAL :	220	

ANALYSIS REQUIRED :

TOTAL COLIFORMS (per 100ml)
FAECAL COLIFORMS (per 100ml)
FAECAL STREPTOCOCCI (per 100ml)

ORTHOPHOSPHATE
T.O.N.
SILICATE
CHLOROPHYLL A

TEMPERATURE (oC) - IN SITU
pH - IN SITU
ALGAL SAMPLE - SURFACE ONLY (FIXED AS APPROPRIATE)

12. BIOACCUMULATION SURVEY PROGRAMME

12.1 DESCRIPTION OF PROGRAMME

Samples of biota and seaweed are collected once a year, from 31 sites in the region over a 2 year rolling programme (21 sites in the first year, 10 sites in the second year). The samples are analysed for metals and pesticides identified in the relevant EC Dangerous Substances Directives.

12.2 REASON FOR MONITORING

Biota and seaweed are used to look at the long term accumulation and persistence of particular chemicals (those listed under the EC Dangerous Substances Directives) in the environment. It is easier to measure a substance that has accumulated in an organism because it will be at a higher concentration than in the surrounding water (so that analytical technique does not need to be so sensitive). Sites are chosen towards the months of estuaries, with known inputs (via discharges) of dangerous substances, away from the immediate area around a discharge. Sites are also chosen which are remote from any known point sources of any substance to find out whether there are any problems from, as yet, unknown sources. Biota and seawood are both used because different types of organism can accumulate different types of chemicals.

12.2 PROGRAMME INFORMATION (TOTAL PROGRAMME)

Numbers of sampling points	:		31 (10 sites in
Numbers of samples	:		31 1992)
Frequency of use of Analysis			
Requirement Groups (ARGs) and total		S109	31 (837)
numbers of determinands, in brackets	:	S110	31 (1054)
		TBT	2

Details of the composition of each ARG may be found in the NRA South West Region's ARG Dictionary.

12.4 EXPLANATION OF SCHEDULE CONTENTS

The following table details the sampling and analysis requirements for this programme. The User Reference Number (URN) is the unique identification code for the site. It allows sample results for the site to be retrieved from the Water Quality Archive (sample database). The National Grid Reference (NGR) defines the location of the site on a map. The Material Code details the type of sample collected, for example 2J is sea water, 2F is freshwater, 2I is estuarine water. It forms part of the information about each particular sample held on the Water Quality Archive. The Purpose Code details the reason why a particular sample has been collected. For example, SQMB relates to EC Directive monitoring - bathing waters. SMRE relates to routine monitoring analysis (for EC Directives), SQMR relates to routine monitoring (in general). This code allows samples collected for particular reasons (from one or several sites) to be retrieved from the Water Quality Archive.

12.5 ENDORSEMENT

The contents of this programme have been agreed by the Water Quality Planner, Field Controller and Laboratory Controller.

NATIONAL RIVERS AUTHORITY - SOUTH WEST REGION
MONITORING PROGRAMME FOR BIOACCUMULATION STUDIES - 1991 & 1992
PROGRAMME LAST UPDATED :- 23-OCT-92

OC: ORGANOCHLORINE PESTICIDES PCB: POLYCHLORINATED BIPHENYLS
MP: MOTH PROOFERS

LOCATION	MONITORING POINT	USER REF. NUMBER	NATIONAL GRID REFERENCE	SAMPLE FREQ.	MONTH & YEAR OF SAMPLING	PURPOSE CODE	LAB	MAT. CODE	ANALYSIS GROUPS (ARGs)	ANALYSIS REQUIRED: FUCOID SPECIES	ANALYSIS REQUIRED: MYTILUS EDULIS /CERASTOD.EDULE
AXE ESTUARY	D/S OF SEATON STW	ED2A1	SY 253 899	1	FEB 1991	SQMS	E	9C	S109 S110	MEDALS	OC MP PCB MEDALS
EXE ESTUARY	COCKLE SANDS	ED5A1	SX 990 819	1	FEB 1991	SQMS	E	9C	S109 S110	MEDALS	OC MP PCB MEDALS
TEIGN ESTUARY	NEWTON POINT	ED6A2	SX 893 724	1	FEB 1991	SQMS	E	9C	S109 S110	MEDALS	OC MP PCB MEDALS
DART ESTUARY	SUGARY COVE	SF015	SX 886 501	1	FEB 1991	SQMS	E	9C	S109 S110	MEDALS	OC MP PCB MEDALS
KINGSBRIDGE ESTUARY	GERSTON POINT	ED8A1	SX 740 414	1	FEB 1991	SQMS	E	9C	S109 S110	MEDALS	OC MP PCB MEDALS
AVON ESTUARY	COCKLEBRIDGE	SF016	SX 669 438	1	FEB 1992	SQMS	E	9C	S109 S110	MEDALS	OC MP PCB MEDALS
ERME ESTUARY	BUGLE HOLE	SF017	SX 605 469	1	FEB 1992	SQMS	E	9C	S109 S110	MEDALS	OC MP PCB MEDALS
YEALM ESTUARY	WARREN POINT	SF018	SX 537 476	1	FEB 1991	SQMS	E	9C	S109 S110	MEDALS	OC MP PCB MEDALS
PLYM ESTUARY	CATTEWATER AREA	SF019	SX 495 535	1	FEB 1991	SQMS	E	9C	S109 S110	MEDALS	OC MP PCB MEDALS
TAMAR ESTUARY	TAMAR BRIDGE	SF020	SX 450 615	1	FEB 1991	SQMS	E	9C	S109 S110	MEDALS	OC MP PCB MEDALS
TAMAR ESTUARY	HALTON QUAY	SF021	SX 413 655	1	FEB 1991	SQMS	E	9C	S109 S110	MEDALS	OC MP PCB MEDALS
TAMAR ESTUARY	WARREN POINT	SF022	SX 441 606	1	FEB 1991	SQMS	E	9C	S109 S110	MEDALS	OC MP PCB MEDALS
TAMAR ESTUARY	AMPHAZE	SF023	SX 441 560	1	FEB 1992	SQMS	E	9C	S109 S110	MEDALS	OC MP PCB MEDALS
LEHER ESTUARY	SHILLINGHAM	SF005	SX 4080 5690	1	FEB 1992	SQMS	E	9C	S109 S110	MEDALS	OC MP PCB MEDALS
LEHER ESTUARY	LAKE	SF006	SX 4180 5730	1	FEB 1992	SQMS	E	9C	S109 S110	MEDALS	OC MP PCB MEDALS
POLT WRINKLE	BEACH	SF002	SX 3530 5390	1	FEB 1992	SQMS	E	9C	S109 S110	MEDALS	OC MP PCB MEDALS
SEATON	BEACH	SF003	SX 3030 5430	1	FEB 1992	SQMS	E	9C	S109 S110	MEDALS	OC MP PCB MEDALS
LOOE ESTUARY AREA	PIER	SF024	SX 256 530	1	FEB 1991	SQMS	E	9C	S109 S110	MEDALS	OC MP PCB MEDALS
FOWEY	RENDOMONT COVE	SF025	SX 123 509	1	FEB 1991	SQMS	E	9C	S109 S110	MEDALS	OC MP PCB MEDALS
PERCUIL	ESTUARY	ES9B	SW 857 338	1	FEB 1991	SQMS	E	9C	S109 S110 TBT ISOMERS	MEDALS	OC MP PCB MEDALS TBT ISOMERS
TURNAGAIN	ESTUARY	ES9B	SW 834 383	1	FEB 1991	SQMP	E	9C	S109 S110 TBT ISOMERS	MEDALS	OC MP PCB MEDALS TBT ISOMERS
SHARPCOL	GELLINGAGE	SF007	SW 8100 3170	1	FEB 1992	SQMP	E	9C	S109 S110	MEDALS	OC MP PCB MEDALS
HELFORD	ESTUARY	ES9A	SW 7460 2640	1	FEB 1992	SQMP	E	9C	S109 S110	MEDALS	OC MP PCB MEDALS
MOUSEHOLE BAY AREA	LONG ROCK	SF026	SW 499 310	1	FEB 1991	SQMP	E	9C	S109 S110	MEDALS	OC MP PCB MEDALS

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LOCATION	MONITORING POINT	USER REF. NUMBER	NATIONAL GRID REFERENCE	SAMPLE FREQ.	MONTH & YEAR OF SAMPLING	PURPOSE CODE	LAB	MAT. CODE	ANALYSIS GROUPS (ARGs)	ANALYSIS REQUIRED: FUCOID SPECIES	ANALYSIS REQUIRED: MYTILUS EDULIS /CERASTOD.EDULE
MOUSEHOLE	MOUSEHOLE	SF010	SW 4700 2620	1	FEB 1992	SQMF	E	9C	S109 S110	METALS	OC MP PCB METALS
HAYLE ESTUARY	LELANT SALTINGS	SF027	SW 550 378	1	FEB 1991	SQMF	E	9C	S109 S110	METALS	OC MP PCB METALS
CHAPEL PORTH	CHAPEL PORTH	SF013	SW 6960 4960	1	FEB 1992	SQMF	E	9C	S109 S110	METALS	OC MP PCB METALS
CAMEL ESTUARY	DRAPER BAY AREA	SF028	SW 925 780	1	FEB 1991	SQMF	E	9C	S109 S110	METALS	OC MP PCB METALS
TORRIDGE ESTUARY	BANK END	E29C0	SS 457 273	1	FEB 1991	SQMS	E	9C	S109 S110	METALS	OC MP PCB METALS
TAW ESTUARY	YELLAND	E30A2	SS 482 387	1	FEB 1991	SQMS	E	9C	S109 S110	METALS	OC MP PCB METALS
NORTH DEVON	LYNMOUTH/LYNTON			1	FEB 1991	SQMS	E	9C	S109 S110	METALS	OC MP PCB METALS
	TOTAL NUMBER OF SAMPLES =			31							

13. AESTHETIC QUALITY SURVEY

13.1 DESCRIPTION OF PROGRAMME

A two year survey of the aesthetic impact of crude sewage discharges on beach quality around the region was completed 1991. The principal objective of the survey was to assess the aesthetic impact of crude sewage discharges on popular beaches in the South West. A standard method of assessment was used to record the type and quantity of visual debris found on the beaches. Records were kept of the weather conditions prevailing at the time of the surveys. 202 sites were each surveyed five times between July and September 1991 during the main survey. Report number TWP/92/002, Two Year Aesthetic Survey of Beaches in the South West (1990 and 1991) gives the detail of the survey.

It is proposed for the 1992 survey to target certain crude sewage discharges (approximately 12-believed to be the major causes of beaches falling into the worst two categories in the 1991 survey) which are not part of South West Water's current Capital Improvement Programme. Simulated sewage debris will be tracked from each point of discharge (in the sea) and records kept of which beach the "debris" ends up on, and how long it takes the "debris" to reach land. Weather and tidal conditions will also be recorded. Experiments will be carried out beforehand to find a suitable material which mimics the behaviour of sewage debris in the water. The survey work is planned to be carried out between July and September this year.

13.2 REASON FOR MONITORING

The aesthetic survey complements the statutory sampling of bathing waters (which takes place as a separate exercise). The results of the survey are used to review sewage discharges going into tidal waters and (by use of the NRA's consenting powers) to ensure that the most polluted beaches, not already covered by improvement schemes, are brought up to an acceptable standard on a priority basis.

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