Environmental Protection
Internal Report

MONITORING OF TIDAL WATERS FOR EC DANGEROUS SUBSTANCES LIST I AND II, 1990

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MONITORING OF TIDAL WATERS FOR EC DANGEROUS SUBSTANCES LIST I AND LIST II, 1990
INTERNAL REPORT NO. TWU/92/04

SUMMARY

The 1990 survey of Dangerous Substances has been completed.

List I standards were generally complied with except for mercury at Teignmouth; HCH at Marsh Mills, Buckland, Countess Wear, Totnes, Radford, Torpoint - Trevol, Looe, Hayle and Braunton; and DDT and total 'drins' from Looe.

J Driver
Tidal Waters Scientist

March 1992

CONTENTS

MONITORING OF TIDAL WATERS FOR EC DANGEROUS SUBSTANCES LIST I AND LIST II, 1990

1. INTRODUCTION

Each year monitoring is carried out in the region at selected discharges and associated receiving water sites in accordance with the requirements of the EC Dangerous Substances Directive.

Discharges included in the programme are those where previous work has shown them to contain significant concentrations of the substance in question. A significant discharge (for List I Substances) has been defined as one where measurable levels occur in the discharge which are equal to or greater than the Environmental Quality Standard (EQS) which is set for the receiving water.

Compliance with the Directive is assessed on an annual basis against standards laid down for the receiving waters (waters affected by the discharge).

The 1990 data has recently been reported to the DoE.

2. 1990 SURVEY

During 1990, 60 discharges to tidal waters were monitored for 1 or more Dangerous Substances. The data is summarised in Appendix A.

List I Substances

Mercury - results are shown in Table 1

Results from the surface boil site (i.e. the point of greatest concentration at the surface of the receiving water) of Teignmouth Outfall did exceed the EQS for mercury. This is acceptable in terms of compliance with the Directive in that a "zone of exceedance" of the parameter with its EQS is allowed around each discharge. Compliance at a further site (the surface boil of Camborne Outfall) was undetermined as only total mercury was measured. The EQS is for dissolved mercury. Monitoring has been increased during 1991 to include more sites (at distances 100m and 250m away from the discharge) to determine compliance with the EQS away from the surface boil at both sites.

Cadmium - results are shown in Tables 2 and 3. Compliance with the EQS was satisfactory at all sites.

Gamma hexachlorocyclohexane (HCH) - results are shown in Tables 4 and 5.

Data for this parameter are presumptive as the analytical method used by our contract laboratory cannot distinguish between HCH and tecnazine. Non compliance with the EQS for HCH was recorded in the receiving waters of the following discharges: Marsh Mills (100m downstream), Buckland (100m downstream), Countess Wear (100m and 250m downstream), Totnes (surface boil), Radford (surface boil), Torpoint - Trevol (surface boil), Looe (surface boil, 100m and 250m downstream), Hayle (surface boil, 100m and 250m downstream), and Braunton (surface boil, 100m and 250m downstream).

Further investigation is required using an analytical method which confirms the presence of HCH to establish the significance of these results. The method of analysis for 1992 and beyond will be able to confirm the presence of HCH.

Other List I Substances - Results are shown in Table 6.

Non compliance with the EQSs for DDT and total 'drins' (aldrin, endrin, dieldrin and isodrin) were recorded in the receiving waters from Looe STW. However, limits of detection of the analytical technique used for this analysis exceeded the EQS at times. This makes it difficult to say whether the non-compliance is real or not. Further investigation using improved limits of detection of the analytical technique is required.

List II Metals - Results are shown in Table 7.

The EQSs for copper and zinc have again been exceeded in the Hayle estuary sites. This is in contrast to the 1989 data which showed an improvement in the levels of copper and zinc compared to previous years. Levels were higher in the estuary sites than the surface boil (from Hayle STW) which indicates that the problem comes from the freshwater rather than Hayle STW itself, as has been previously identified. The EQS for arsenic was also exceeded in the Hayle Estuary, 250m downstream of Hayle. Results for copper also exceed the EQS in the Plym estuary near to Marsh Mills STW (surface boil, 100m upstream and 250m downstream). Again, the problem appears to be coming from freshwater rather than the discharge itself. The EQS for zinc was also exceeded in the Truro estuary upstream of Newham STW.

The following surface boil sites recorded levels of copper, greater than the EQS: Sidmouth, International Paints, Par, East-the-Water, Velator and Ashford. Totnes, Bude and East-the-Water surface boil sites exceeded the EQS for zinc. The discharge from East-the-Water (Bideford) no longer exists. All the effluent is now diverted to the new Bideford fine screening plant for discharge. Sampling of this new discharge will continue, to monitor the levels of list II metals.

RECOMMENDATIONS AND ACTIONS

Work is required to identify the sources of copper and zinc in the river Hayle, copper in the River Plym and zinc in the Truro river.

Action: Freshwater Officer

The cause of EQS exceedence for arsenic in the Hayle estuary requires investigation.

Action: Assistant Scientist (Tidal Waters)

Monitoring effort should be increased for copper at the following discharges: Sidmouth, International Paints, Par, Velator and Ashford.

Action: Assistant Scientist (Tidal Waters)

Monitoring effort should be increased for zinc at Totnes STW and Bude outfall.

Action: Assistant Scientist (Tidal Waters)

APPENDIX A

Dangerous Substances Monitoring Results 1990

[EP.WQ]JD_210192_JLM_WMG_10FEB92.WP

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Dangerous Substances Monitoring Results 1990

[EP.WQ]JD_210192_JLM_WMG_10FEB92.WP

TABLE 1 : LIST I - MERCURY IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

EQS = Environmental Quality Standard (For Dissolved Mercury)
All units are µg/l

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	DISS. OR TOT.	RELEVENT EQS	NO. OF SAMPLES	NO. OF < SAMPLES	LOW MEAN	HIGH MEAN
Dawlish (Sea Lawns) Outfall	Sea at surface of plume from Dawlish Outfall	OUT6524C	SX 9695 7685	T	0.3	2	0	0.300	0.300
Teignmouth Outfall	Sea at surface of plume from Teignmouth Outfall	OUT6486C	SX 9385 7215	D	0.3	2	0	0.570	0.570
Geevor Tin Mine Outfall	Sea at surface of plume from Geevor Tin Mine Outfall	OUT0514C	SW 3710 3500		0.3	ND (1)			
	Sea - 100 M from surface boil	OUT0514D	SW 3700 3505		0.3	ND			
	Sea - 250 M from surface boil	OUT0514B	SW 3680 3460		0.3	ND			
	Network site -	OUT0514E	SW 3690 3480		0.3	ND			
Camborne (North Cliffs) Outfall	Sea at surface of plume from Camborne Outfall	OUT0508C	SW 6218 4331	T	0.3	2	1	0.085	0.585

NOTES : (1) ND = No Data for 1990

TABLE 2 : LIST I - CADMIUM IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

EQS = Environmental Quality Standard (For Dissolved Cadmium)
All units are µg/l

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	RELEVENT EQS	NO. OF SAMPLES	NO. OF < SAMPLES	LOW MEAN	HIGH MEAN
Budleigh Salterton Outfall	Sea at surface of plume from Budleigh Salterton Outfall	OUT8030C	SY 0790 8160	2.5	3	1	0.244	0.286
	Sea - 100 M from Surface Boil	OUT8030A	SY 0810 8180	2.5	2	0	0.233	0.233
	Sea - 250 M from Surface Boil	OUT8030B	SY 0820 8170	2.5	2	2	0.000	0.125
Exmouth S.T.W.	Sea at surface of plume from Exmouth S.T.W.	OUT7600C	SY 0365 7940	2.5	3	1	0.104	0.146
	Sea - 100 M from Surface Boil	OUT7600A	SY 0320 7920	2.5	3	3	0.000	0.125
	Sea - 250 M from Surface Boil	OUT7600B	SY 0400 7800	2.5	3	2	0.050	0.134
Countess Wear (Exeter) S.T.W.	Surface of plume from Exeter Countess Wear S.T.W.	WSTW7594C	SX 9500 8905	2.5	6	5	0.032	0.137
	Exe Estuary 100 M U/S of STW	E05A3	SX 9430 8940	2.5	6	6	0.000	0.125
	Exe Estuary 100 M D/S of STW	E05A19	SX 9505 8895	2.5	6	5	0.162	0.266
	Exe Estuary 250 M D/S of STW	E05A18	SX 9520 8890	2.5	6	5	0.100	0.204
	Network Site - Estuary Mouth	E05A12	SX 9900 8050	2.5	ND (1)			
Newton Abbot (Buckland) S.T.W.	Surface of plume from Newton Abbot (Buckland) S.T.W.	WSTW6250C	SX 8835 7215	2.5	5	2	0.189	0.239
	Teign Estuary 100 M U/S of STW	E06A1	SX 8820 7220	2.5	4	0	0.278	0.278
	Teign Estuary 100 M D/S of STW	E06A5	SX 8845 7215	2.5	5	2	0.098	0.148
	Teign Estuary 250 M D/S of STW	E06A6	SX 8865 7215	2.5	5	3	0.054	0.129
	Network Site - Estuary Mouth	E06A7	SX 9370 7280	2.5	1	1	0.000	0.125
Torquay (Hopes Nose) Outfall	Sea at surface of plume from Hopes Nose Outfall	OUT6588C	SX 9500 6365	2.5	4	2	0.098	0.161
	Sea - 100 M from Surface Boil	OUT6588A	SX 9510 6370	2.5	4	4	0.000	0.125
	Sea - 250 M from Surface Boil	OUT6588B	SX 9580 6310	2.5	4	4	0.000	0.125
	Network Site - 100 M from plume	OUT6588F	SX 9492 6452	2.5	1	1	0.000	0.125

TABLE 2 : LIST I - CADMIUM IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

EQS = Environmental Quality Standard (For Dissolved Cadmium)
All units are µg/l

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	RELEVENT EQS	NO. OF SAMPLES	NO. OF < SAMPLES	LOW MEAN	HIGH MEAN
Plymouth (Marsh Mills) S.T.W.	Surface of plume from Plymouth (Marsh Mills) S.T.W.	WSTW4728C	SX 5200 5625	2.5	6	4	0.065	0.148
	Plym Estuary 100 M U/S of STW	R11A021	SX 5190 5640	2.5	6	4	0.109	0.192
	Plym Estuary 100 M D/S of STW	R11A023	SX 5190 5615	2.5	6	3	0.173	0.236
	Plym Estuary 250 M D/S of STW	R11A022	SX 5010 5420	2.5	6	4	0.181	0.264
	Network Site - Estuary Mouth	E11A1	SX 4900 5340	2.5	1	1	0.000	0.125
West Hoe Outfall	Sea at surface of plume from West Hoe Outfall	OUT4978C	SX 4730 5340	2.5	3	2	0.061	0.145
Plymouth (Eastern Kings) Outfall	Surface of plume from Plymouth (Eastern Kings) Outfall	OUT4940C	SX 4675 5340	2.5	6	6	0.000	0.125
	Plymouth Sound 100 M U/S of Outfall	R12A006	SX 4640 5320	2.5	6	6	0.000	0.125
	Plymouth Sound 100 M D/S of Outfall	R12A007	SX 4680 5330	2.5	6	6	0.000	0.125
	Plymouth Sound 250 M D/S of Outfall	R12A018	SX 4700 5320	2.5	6	6	0.000	0.125
	Network Site - Estuary Mouth	R12A014	SX 4750 5180	2.5	1	1	0.000	0.125
	Network Site - Hamoaze Ferry Crossing	R12A012	SX 4450 5510	2.5	1	1	0.000	0.125
Wheal Jane Mine Outfall (Lighterage Quay)	Surface of plume from Wheal Jane Tin Mine Outfall	P19B/P/403C	-	2.5	ND			
Penzance (Chyandour) Outfall	Sea at surface of plume from Chyandour Outfall	OUT0554C	SW 4810 3070	2.5	4	2	0.102	0.164
	Network Site - Ryeman	OUT0554D	SW 4950 3050	2.5	2	0	0.552	0.552
Penzance (Albert Pier) Outfall	Sea at surface of plume from Albert Pier Outfall	OUT0550C	SW 4790 3040	2.5	4	0	0.790	0.790
Penzance (Wherry Town) Outfall	Sea at surface of plume from Wherry Town Outfall	OUT0558C	SW 4690 2920	2.5	4	1	0.140	0.172
Newlyn (River) Outfall	Sea at surface of plume from Newlyn (River) Outfall	OUT0543C	SW 4650 2890	2.5	4	2	0.350	0.413
	Network Site - Off Skilly	OUT0543D	SW 4300 2770	2.5	2	0	0.207	0.207

TABLE 2 : LIST I - CADMIUM IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

EQS = Environmental Quality Standard (For Dissolved Cadmium)
All units are µg/l

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	RELEVENT EQS	NO. OF SAMPLES	NO. OF < SAMPLES	LOW MEAN	HIGH MEAN
Geevor Tin Mine Outfall	Sea at surface of plume from Geevor Tin Mine Outfall	OUT0514C	SW 3710 3500	2.5	ND			
	Sea - 100 M from Surface Boil	OUT0514D	SW 3700 3505	2.5	ND			
	Sea - 250 M from Surface Boil	OUT0514B	SW 3680 3460	2.5	ND			
	Network Site - 100 M from plume	OUT0514E	SW 3690 3480	2.5	ND			
Hayle S.T.W.	Surface of plume from Hayle S.T.W.	WSTW0084C	SW 5462 3645	2.5	3	0	0.305	0.305
	Hayle Estuary 100 M U/S of STW	WSTW0084A	SW 5480 3640	2.5	3	0	1.327	1.327
	Hayle Estuary 100 M D/S of STW	WSTW0084D	SW 5475 3655	2.5	3	0	0.650	0.650
	Hayle Estuary 250 M D/S of STW	WSTW0084E	SW 5480 3667	2.5	3	0	0.771	0.771
Camborne (North Cliffs) Outfall	Sea at surface of plume from Camborne (North Cliffs) Outfall	OUT0508C	SW 6218 4331	2.5	3	1	0.125	0.166
Newquay (Towan Head) Outfall	Sea at surface of plume from Newquay (Towan Head) Outfall	OUT2046C	SW 8010 6300	2.5	3	1	0.129	0.171
Barnstaple (Ashford) S.T.W.	Surface of plume from Barnstaple (Ashford) S.T.W.	WSTW3013C	SS 5295 3420	2.5	3	1	0.145	0.187
	Taw Estuary 100 M U/S of STW	E30A7	SS 5310 3393	2.5	3	2	0.050	0.133
	Taw Estuary 100 M D/S of STW	E30A11	SS 5310 3420	2.5	3	2	0.046	0.130
	Taw Estuary 250 M D/S of STW	E30A10	SS 5285 3430	2.5	5	5	0.000	0.125
	Network Site - Estuary Mouth	E30A2	SS 4820 3270	2.5	ND			

NOTES : (1) ND = No Data for 1990

TABLE 3 : LIST I - CADMIUM IN SEDIMENTS AND SHELLFISH

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

All units are mg/kg

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	PREVIOUS RESULT (1)	SED OR BIOTA	NO. OF SAMPLES	NO. OF < SAMPLES	LOW MEAN	HIGH MEAN
Seaton S.T.W.	Axe Estuary 250M D/S of S.T.W.	E02A1	SY 2530 8990		SED	1	1	0.000	0.700
Countess Wear (Exeter) S.T.W.	Exe Estuary 250M D/S of S.T.W.	E05A18	SX 9520 8890		SED	1	0	1.000	1.000
					BIOTA	1	0	0.150	0.150
Newton Abbot (Buckland) S.T.W.	Teign Estuary 250M D/S of S.T.W.	E06A6	SX 8865 7215		SED	1	0	1.000	1.000
					BIOTA	1	0	0.150	0.150
Torquay (Hopes Nose) Outfall	Sea - 100 M from Surface Boil	OUT6588A	SX 9510 6370			ND (2)			
Plymouth (Marsh Mills) S.T.W.	Plym Estuary 250M D/S of S.T.W.	R11A022	SX 5010 5420			ND			
Plymouth (Eastern Kings) Outfall	Plymouth Sound 250 M D/S Outfall	R12A018	SX 4700 5320		SED	1	0	1.380	1.380
					BIOTA	1	0	0.293	0.293
Truro (Newham) S.T.W.	Truro River 250M D/S of S.T.W.	WSTW0240F	SW 8366 4320		SED	1	0	5.000	5.000
Falmouth (Middle Pt.) Outfall	Carrick Rds. 250M from Surface Boil	OUT0420B	SW 8260 3220		SED	1	1	0.000	5.000
Geevor Tin Mine Outfall	Sea - 250 M from Surface Boil	OUT0514B	SW 3680 3460			ND			
Hayle S.T.W.	Hayle Estuary 250M D/S of S.T.W.	WSTW0084E	SW 5480 3667		SED	1	1	0.000	5.000
Barnstaple (Ashford) S.T.W.	Taw Estuary 250M D/S of S.T.W.	E30A10	SS 5285 3430		SED	2	0	1.300	1.300
					BIOTA	2	0	0.222	0.222

NOTES : (1) No "Previous Results" due to complete revisal of monitoring locations
(2) ND = No Data for 1990

TABLE 4 : LIST I - GAMMA HCH IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

EQS = Environmental Quality Standard
All units are µg/l

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	RELEVENT EQS	NO. OF SAMPLES	NO. OF < SAMPLES	LOW MEAN	HIGH MEAN
Lyme Regis Outfall	Sea at surface of plume from Lyme Regis Outfall	OUT8050D	SY 3470 9195	0.020	3	0	0.005	0.005
	Sea - 100 M from surface boil	OUT8050A	SY 3475 9190	0.020	3	2	0.000	0.001
	Sea - 250 M from surface boil	OUT8050B	SY 3485 9180	0.020	3	3	0.000	0.001
Seaton S.T.W.	Surface of plume from Seaton S.T.W.	WSTW7756C	SY 2540 9070	0.020	6	0	0.149	0.149
	Axe Estuary 100 M U/S of S.T.W.	E02C1	SY 2540 9110	0.020	6	0	0.003	0.003
	Axe Estuary 100 M D/S of S.T.W.	E02B1	SY 2540 9050	0.020	6	0	0.003	0.003
	Axe Estuary 250 M D/S of S.T.W.	E02A1	SY 2530 8990	0.020	6	0	0.004	0.004
	Network Site - Estuary Mouth	E02A5	SY 2530 8970	0.020	ND (1)			
Beer Head Outfall	Sea at surface of plume from Beer Head Outfall	OUT8020C	SY 2260 8740	0.020	ND			
	Sea - 100 M from surface boil	OUT8020A	SY 2290 8780	0.020	ND			
	Sea - 250 M from surface boil	OUT8020B	SY 2295 8770	0.020	ND			
Sidmouth Outfall	Sea at surface of plume from Sidmouth Outfall	OUT8080C	SY 1290 8690	0.020	3	0	0.012	0.012
Budleigh Salterton Outfall	Sea at surface of plume from Budleigh Salterton	OUT8030C	SY 0790 8160	0.020	3	2	0.026	0.027
	Sea - 100 M from surface boil	OUT8030A	SY 0810 8180	0.020	2	2	0.000	0.001
	Sea - 250 M from surface boil	OUT8030B	SY 0820 8170	0.020	2	2	0.000	0.001
Countess Wear (Exeter) S.T.W.	Surface of plume from Countess Wear S.T.W.	WSTW7594C	SX 9500 8905	0.020	5	0	0.030	0.030
	Exe Estuary 100 M U/S of S.T.W.	E05A3	SX 9430 8940	0.020	6	2	0.014	0.015
	Exe Estuary 100 M D/S of S.T.W.	E05A19	SX 9505 8895	0.020	6	1	0.030	0.031
	Exe Estuary 250 M D/S of S.T.W.	E05A18	SX 9520 8890	0.020	5	0	0.050	0.050
	Network Site - Estuary Mouth	E05A12	SX 9900 8050	0.020	ND			

TABLE 4 : LIST I - GAMMA HCH IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

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DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	RELEVENT EQS	NO. OF SAMPLES	NO. OF < SAMPLES	LOW MEAN	HIGH MEAN
Dawlish (Sea Lawns) Outfall	Sea at surface of plume from Dawlish (Sea Lawns) Outfall	OUT6524C	SX 9695 7685	0.020	3	3	0.000	0.001
Teignmouth Outfall	Sea at surface of plume from Teignmouth Outfall	OUT6486C	SX 9385 7215	0.020	3	0	0.005	0.005
Newton Abbot (Buckland) S.T.W.	Surface of plume from Buckland S.T.W.	WSTW6250C	SX 8835 7215	0.020	11	0	0.091	0.091
	Teign Estuary 100 M U/S of S.T.W.	E06A1	SX 8820 7220	0.020	11	1	0.005	0.005
	Teign Estuary 100 M D/S of S.T.W.	E06A5	SX 8845 7215	0.020	11	1	0.025	0.025
	Teign Estuary 250 M D/S of S.T.W.	E06A6	SX 8865 7215	0.020	11	1	0.017	0.017
	Network Site - Estuary Mouth	E06A7	SX 9370 7280	0.020	1	1	0.000	0.001
Shaldon Outfall	Sea at surface of plume from Shaldon Outfall	OUT6470C	SX 9300 7280	0.020	2	0	0.008	0.008
Torquay (Hopes Nose) Outfall	Sea at surface of plume from Hopes Nose Outfall	OUT6588C	SX 9500 6365	0.020	4	0	0.021	0.021
	Sea - 100 M from surface boil	OUT6588A	SX 9510 6370	0.020	4	2	0.002	0.002
	Sea - 250 M from surface boil	OUT6588B	SX 9580 6310	0.020	4	2	0.001	0.001
	Network Site - 100 M from plume	OUT6588F	SX 9492 6452	0.020	1	1	0.000	0.001
Brixham (Sharkham) Outfall	Sea at surface of plume from Sharkham Outfall	OUT6516C	SX 9380 5465	0.020	2	0	0.004	0.004
	Sea - 100 M from surface boil	OUT6516A	SX 9390 5450	0.020	3	2	0.000	0.001
	Sea - 250 M from surface boil	OUT6516B	SX 9450 5470	0.020	3	3	0.000	0.001
Totnes S.T.W.	Surface of plume from Totnes S.T.W.	WSTW6321C	SX 8075 6100	0.020	3	0	0.054	0.054
Kingsbridge S.T.W.	Kingsbridge Est 100 M U/S of S.T.W.	WSTW6194A	SX 7410 4290	0.020	5	0	0.005	0.005
	Kingsbridge Est 100 M d/S of S.T.W.	WSTW6194B	SX 7400 4220	0.020	5	1	0.006	0.006
	Kingsbridge Est 250 M d/S of S.T.W.	E08A9	SX 7420 4200	0.020	5	2	0.008	0.008
	Network Site - Estuary Mouth	E08A5	SX 7360 3785	0.020	ND			

TABLE 4 : LIST I - GAMMA HCH IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

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All units are µg/l

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	RELEVENT EQS	NO. OF SAMPLES	NO. OF < SAMPLES	LOW MEAN	HIGH MEAN
Plymouth (Marsh Mills) S.T.W.	Surface of plume from Marsh Mills S.T.W.	WSTW4728C	SX 5200 5625	0.020	3	0	0.102	0.102
	Plym Estuary 100 M U/S of S.T.W.	R11A021	SX 5190 5640	0.020	2	0	0.004	0.004
	Plym Estuary 100 M D/S of S.T.W.	R11A023	SX 5190 5615	0.020	2	0	0.025	0.025
	Plym Estuary 250 M D/S of S.T.W.	R11A022	SX 5010 5420	0.020	2	0	0.014	0.014
	Network Site - Estuary Mouth	E11A1	SX 4900 5340	0.020	1	0	0.002	0.002
Plymouth (Billacombe) S.T.W.	Surface of plume from Billacombe S.T.W.	WSTW4720C	SX 5005 5390	0.020	ND			
Plymouth (Radford) S.T.W.	Surface of plume from Radford S.T.W	WSTW4726C	SX 5010 5285	0.020	3	0	0.264	0.264
West Hoe Outfall	Surface of plume from West Hoe Outfall	OUT4978C	SX 4730 5340	0.020	3	0	0.002	0.002
Millbrook Outfall	Surface of plume from Millbrook Outfall	OUT4920C	SX 4340 5220	0.020	3	0	0.016	0.016
Torpoint Trevol S.T.W.	Surface of plume from Torpoint Trevol S.T.W.	WSTW4786C	SX 4165 5410	0.020	3	0	0.200	0.200
Marlborough ST Outfall	Surface of plume from Marlborough Street Outfall	OUT4952C	SX 4470 5500	0.020	ND			
Albert Road Outfall	Surface of plume from Albert Road Outfall	OUT4922C	SX 4460 5540	0.020	3	0	0.003	0.003
Devonport Dockyard No.5	Surface of plume from Devonport Dockyard No.5 Outfall	OUT4937C	SX 4440 5620	0.020	ND			
Plymouth (Camels Head) S.T.W.	Surface of plume from Camels Head S.T.W.	WSTW4722C	SX 4530 5720	0.020	ND			
Plymouth (Ernesettle) S.T.W.	Surface of plume from Ernesettle S.T.W.	WSTW4724C	SX 4390 6045	0.020	2	0	0.029	0.029
	Plymouth Sound 100 M U/S of S.T.W.	R12A008	SX 4410 6070	0.020	2	0	0.003	0.003
	Plymouth Sound 100 M D/S of S.T.W.	R12A017	SX 4385 6020	0.020	2	0	0.011	0.011
	Plymouth Sound 250 M D/S of S.T.W.	R12A016	SX 4330 6000	0.020	2	0		

TABLE 4 : LIST I - GAMMA HCH IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

EQS = Environmental Quality Standard
All units are µg/l

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	RELEVENT EQS	NO. OF SAMPLES	NO. OF < SAMPLES	LOW MEAN	HIGH MEAN
Looe S.T.W.	Surface of plume from Looe S.T.W.	WSTW4660C	SX 2485 5380	0.020	2	0	0.380	0.380
	West Looe R. 100 M U/S of S.T.W.	WSTW4660A	SX 2432 5352	0.020	2	1	0.001	0.002
	West Looe R. 100 M D/S of S.T.W.	WSTW4660B	SX 2446 5360	0.020	2	0	0.355	0.355
	West Looe R. 250 M D/S of S.T.W.	WSTW4660D	SX 2450 5361	0.020	2	0	0.390	0.390
Par S.T.W.	Sea at surface of plume from Par S.T.W.	OUT2058C	SX 0731 5220	0.020	2	0	0.016	0.016
	ST Austell Bay - 100 M from S.B.	OUT2058A	SX 0732 5224	0.020	2	0	0.006	0.006
	ST Austell Bay - 250 M from S.B.	OUT2058B	SX 0732 5224	0.020	2	0	0.003	0.003
Truro (Newham) S.T.W.	Surface of plume from Newham S.T.W.	WSTW0240C	SW 8340 4325	0.020	3	0	0.046	0.046
	Truro River 100 M U/S of S.T.W.	WSTW0240D	SW 8332 4345	0.020	1	0	0.005	0.005
	Truro River 100 M D/S of S.T.W.	WSTW0240E	SW 8350 4325	0.020	1	0	0.008	0.008
	Truro River 250 M D/S of S.T.W.	WSTW0240F	SW 8366 4320	0.020	1	0	0.007	0.007
Falmouth (Middle Point) Outfall	Sea at surface of plume from Middle Point Outfall	OUT0420C	SW 8270 3200	0.020	3	0	0.042	0.042
	Carrick Roads - 100 M from S.B.	OUT0420A	SW 8260 3210	0.020	1	0	0.006	0.006
	Carrick Roads - 250 M from S.B.	OUT0420B	SW 8260 3220	0.020	1	0	0.001	0.001
Falmouth (Pennance Pt.) Outfall	Sea at surface of plume from Pennance Pt. Outfall	OUT0421C	SW 8050 3045	0.020	3	0	0.029	0.029
	Sea - 100 M from surface boil	OUT0421B	SW 8063 3035	0.020	1	0	0.004	0.004
	Sea - 250 M from surface boil	OUT0421D	SW 8076 3026	0.020	1	0	0.002	0.002
Penzance (Chyandour) Outfall	Sea at surface of plume from Chyandour Outfall	OUT0554C	SW 4810 3070	0.020	3	0	0.016	0.016
	Netwok Site - Ryeman	OUT0554D	SW 4950 3050	0.020	1	1	0.000	0.001
Penzance (Albert Pier) Outfall	Sea at surface of plume from Albert Pier Outfall	OUT0550C	SW 4790 3040	0.020	3	0	0.091	0.091

TABLE 4 : LIST I - GAMMA HCH IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

EQS = Environmental Quality Standard
All units are $\mu g/l$

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	RELEVENT EQS	NO. OF SAMPLES	NO. OF < SAMPLES	LOW MEAN	HIGH MEAN
Penzance (Wherry Town) Outfall	Sea at surface of plume from Wherry Town Outfall	OUT0558C	SW 4690 2920	0.020	3	0	0.022	0.022
Newlyn (River) Outfall	Sea at surface of plume from Newlyn (River) Outfall	OUT0543C	SW 4650 2890	0.020	3	0	0.139	0.139
	Network Site - Off Skilly	OUT0543D	SW 4800 2770	0.020	2	1	0.001	0.001
Hayle S.T.W.	Surface of plume from Hayle S.T.W.	WSTW0084C	SW 5462 3645	0.020	3	0	0.065	0.065
	Hayle Estuary 100 M U/S of S.T.W.	WSTW0084A	SW 5480 3640	0.020	2	2	0.000	0.001
	Hayle Estuary 100 M D/S of S.T.W.	WSTW0084D	SW 5475 3655	0.020	2	0	0.059	0.059
	Hayle Estuary 250 M D/S of S.T.W.	WSTW0084E	SW 5480 3667	0.020	2	0	0.036	0.036
Camborne (North Cliffs) Outfall	Sea at surface of plume from North Cliffs Outfall	OUT0508C	SW 6218 4331	0.020	3	0	0.014	0.014
Redruth (Portreath) Outfall	Sea at surface of plume from Portreath Outfall	OUT0579C	SW 6610 4620	0.020	3	1	0.004	0.004
Perranporth (Cligga) Outfall	Sea at surface of plume from Cligga Head Outfall	OUT0560C	SW 7450 5400	0.020	3	0	0.003	0.003
Newquay (Towan Head) Outfall	Sea at surface of plume from Towan Head Outfall	OUT2046C	SW 8010 6300	0.020	3	1	0.002	0.002
Bude (Compass Point) Outfall	Sea at surface of plume from Compass Point Outfall	OUT3510C	SS 1970 0630	0.020	5	0	0.057	0.057
	Sea - 100 M from surface boil	OUT3510B	SS 1960 0634	0.020	3	0	0.003	0.003
	Sea - 250 M from surface boil	OUT3510D	SS 1945 0635	0.020	3	1	0.002	0.002
East the Water Outfall	Surface of plume from East the Water Outfall	OUT3422C	SS 4550 2660	0.020	2	0	0.029	0.029
	Torridge Est 100 M U/S of Outfall	E29C7	SS 4560 2660	0.020	2	1	0.002	0.002
	Torridge Est 100 M D/S of Outfall	E29A10	SS 4550 2670	0.020	2	1	0.002	0.002
	Torridge Est 250 M D/S of Outfall	E29C0	SS 4570 2730	0.020	1	0	0.003	0.003
Bideford (Victoria Pk.) Outfall	Surface of plume from Victoria Pk Outfall	OUT3426C	SS 4580 2730	0.020	1	0	0.007	0.007

TABLE 4 : LIST I - GAMMA HCH IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

EQS = Environmental Quality Standard
All units are µg/l

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	RELEVENT EQS	NO. OF SAMPLES	NO. OF < SAMPLES	LOW MEAN	HIGH MEAN
Bideford (Bridgeland ST) Outfall	Surface of plume from Bridgeland ST Outfall	OUT3420C	SS 4555 2680	0.020	3	2	0.024	0.031
Braunton (Velator) S.T.W.	Surface of plume from Velator S.T.W.	WSTW3038C	SS 4850 3545	0.020	3	1	0.113	0.114
	River Caen 100 M U/S of S.T.W.	E30B3	SS 4853 3565	0.020	3	0	0.005	0.005
	River Caen 100 M D/S of S.T.W.	E30A13	SS 4850 3540	0.020	3	0	0.081	0.081
	River Caen 250 M D/S of S.T.W.	E30A12	SS 4840 3520	0.020	3	0	0.059	0.059
Kendall U.K. Outfall (Veratec Ltd)	Surface of plume from Veratec Outfall	P30A/P/25C	SS 4845 3525	0.020	ND			
Barnstaple (Ashford) S.T.W.	Surface of plume from Ashford S.T.W	WSTW3013C	SS 5295 3420	0.020	6	0	0.065	0.065
	Taw Estuary 100 M U/S of S.T.W.	E30A7	SS 5310 3393	0.020	6	1	0.005	0.005
	Taw Estuary 100 M D/S of S.T.W.	E30A11	SS 5310 3420	0.020	6	0	0.017	0.017
	Taw Estuary 250 M D/S of S.T.W.	E30A10	SS 5285 3430	0.020	5	0	0.022	0.022
	Network Site - Estuary Mouth	E30A2	SS 4820 3270	0.020	ND			
Croyde / Georgeham Outfall	Sea at surface of plume from Croyde / Georgeham Outfall	OUT3514C	SS 4210 4030	0.020	2	0	0.020	0.020
Ilfracombe (Cheyne) Outfall	Sea at surface of plume from Ilfracombe (Cheyne) Outfall	OUT3530C	SS 5220 4810	0.020	1	1	0.000	0.001
Combe Martin Outfall	Sea at surface of plume from Combe Martin Outfall	OUT3512C	SS 5750 4775	0.020	2	1	0.001	0.002

NOTES : (1) ND = No Data for 1990

TABLE 5 : LIST I - GAMMA HCH IN SEDIMENTS AND SHELLFISH

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

All units are µg/kg

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	PREVIOUS RESULT (1)	SED OR BIOTA	NO. OF SAMPLES	NO. OF < SAMPLES	LOW MEAN	HIGH MEAN
Seaton S.T.W.	Axe Estuary 250M D/S of S.T.W.	E02A1	SY 2530 8990		SED	1	1	0.000	1.000
Countess Wear (Exeter) S.T.W.	Exe Estuary 250M D/S of S.T.W.	E05A18	SX 9520 8890		BIOTA	1	1	0.000	1.000
Newton Abbot (Buckland) S.T.W.	Teign Estuary 250M D/S of S.T.W.	E06A6	SX 8865 7215		BIOTA	1	1	0.000	1.000
Torquay (Hopes Nose) Outfall	Sea - 100 M from Surface Boil	OUT6588A	SX 9510 6370			ND (2)			
Kingsbridge S.T.W.	Kingsbridge Est. 250M D/S of S.T.W.	E08A9	SX 7420 4200			ND			
Plymouth (Eastern Kings) Outfall	Plymouth Sound 250 M D/S Outfall	R12A018	SX 4700 5320		BIOTA	1	1	0.000	1.000
Truro (Newham) S.T.W.	Truro River 250M D/S of S.T.W.	WSTW0240F	SW 8366 4320		SED	1	0	3.000	3.000
Falmouth (Middle Pt.) Outfall	Carrick Rds. 250M from Surface Boil	OUT0420B	SW 8260 3220		SED	1	1	0.000	1.000
Hayle S.T.W.	Hayle Estuary 250M D/S of S.T.W.	WSTW0084E	SW 5480 3667		SED	2	1	1.000	1.500
Barnstaple (Ashford) S.T.W.	Taw Estuary 250M D/S of S.T.W.	E30A10	SS 5285 3430		BIOTA	2	2	0.000	1.000

NOTES : (1) No "Previous Results" due to complete revisal of monitoring locations
(2) ND = No Data for 1990

TABLE 6 : OTHER LIST I SUBSTANCES IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

EQS = Environmental Quality Standard
All units are µg/l

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	DDT (PP')					TOTAL DDT					TOTAL DRINS'				
				EQS	NO.	NO.<	LOW MEAN	HIGH MEAN	EQS	NO.	NO.<	LOW MEAN	HIGH MEAN	EQS	NO.	NO.<	LOW MEAN	HIGH MEAN
Lyme Regis Outfall	Sea at surface of plume from Lyme Regis Outfall	OUT8050D	SY 3470 9195	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
	Sea - 100 M from surface boil	OUT8050A	SY 3475 9190	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
	Sea - 250 M from surface boil	OUT8050B	SY 3485 9180	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
Seaton S.T.W.	Surface of plume from Seaton S.T.W.	WSTW7756C	SY 2540 9070	0.010	6	6	0.000	0.005	0.025	6	6	0.000	0.023	0.030	6	6	0.002	0.010
	Axe Estuary 100 M U/S of S.T.W.	E02C1	SY 2540 9110	0.010	6	6	0.000	0.005	0.025	6	6	0.000	0.023	0.030	6	6	0.000	0.008
	Axe Estuary 100 M D/S of S.T.W.	E02B1	SY 2540 9050	0.010	6	6	0.000	0.005	0.025	6	6	0.000	0.023	0.030	6	6	0.000	0.008
	Axe Estuary 250 M D/S of S.T.W.	E02A1	SY 2530 8990	0.010	6	6	0.000	0.005	0.025	6	6	0.000	0.023	0.030	6	6	0.000	0.008
	Network Site - Estuary Mouth	E02A5	SY 2530 8970	0.010	ND (1)				0.025	ND				0.030	ND			
Beer Head Outfall	Sea at surface of plume from Beer Head Outfall	OUT8020C	SY 2260 8740	0.010	ND				0.025	ND				0.030	ND			
	Sea - 100 M from surface boil	OUT8020A	SY 2290 8780	0.010	ND				0.025	ND				0.030	ND			
	Sea - 250 M from surface boil	OUT8020B	SY 2295 8770	0.010	ND				0.025	ND				0.030	ND			
Sidmouth Outfall	Sea at surface of plume from Sidmouth Outfall	OUT8080C	SY 1290 8690	0.010	2	2	0.000	0.005	0.025	3	3	0.000	0.020	0.030	3	3	0.002	0.013
Budleigh Salterton Outfall	Sea at surface of plume from Budleigh Salterton	OUT8030C	SY 0790 8160	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
	Sea - 100 M from surface boil	OUT8030A	SY 0810 8180	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008
	Sea - 250 M from surface boil	OUT8030B	SY 0820 8170	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008
Countess Wear (Exeter) S.T.W.	Surface of plume from Countess Wear S.T.W.	WSTW7594C	SX 9500 8905	0.010	5	5	0.000	0.005	0.025	5	5	0.000	0.023	0.030	5	5	0.000	0.010
	Exe Estuary 100 M U/S of S.T.W.	E05A3	SX 9430 8940	0.010	6	6	0.000	0.005	0.025	6	6	0.000	0.023	0.030	6	6	0.000	0.010
	Exe Estuary 100 M D/S of S.T.W.	E05A19	SX 9505 8895	0.010	6	6	0.000	0.005	0.025	6	6	0.000	0.023	0.030	6	6	0.001	0.011
	Exe Estuary 250 M D/S of S.T.W.	E05A18	SX 9520 8890	0.010	5	5	0.000	0.005	0.025	5	5	0.000	0.023	0.030	5	5	0.000	0.010
	Network Site - Estuary Mouth	E05A12	SX 9900 3050	0.010	ND				0.025	ND				0.030	ND			

TABLE 6 : OTHER LIST I SUBSTANCES IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

EQS = Environmental Quality Standard
All units are µg/l

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	DDT (PP')					TOTAL DDT					TOTAL DRINS'				
				EQS	NO.	NO.<	LOW MEAN	HIGH MEAN	EQS	NO.	NO.<	LOW MEAN	HIGH MEAN	EQS	NO.	NO.<	LOW MEAN	HIGH MEAN
Dawlish (Sea Lawns) Outfall	Sea at surface of plume from Dawlish (Sea Lawns) Outfall	OUT6524C	SX 9695 7685	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
Teignmouth Outfall	Sea at surface of plume from Teignmouth Outfall	OUT6486C	SX 9385 7215	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
Newton Abbot (Buckland) S.T.W.	Surface of plume from Buckland S.T.W.	WSTW6250C	SX 8835 7215	0.010	11	11	0.000	0.009	0.025	11	11	0.000	0.042	0.030	11	11	0.000	0.015
	Teign Estuary 100 M U/S of S.T.W.	ED6A1	SX 8820 7220	0.010	11	11	0.000	0.005	0.025	11	11	0.000	0.023	0.030	11	11	0.000	0.008
	Teign Estuary 100 M D/S of S.T.W.	ED6A5	SX 8845 7215	0.010	11	11	0.000	0.005	0.025	11	11	0.000	0.023	0.030	11	11	0.000	0.008
	Teign Estuary 250 M D/S of S.T.W.	ED6A6	SX 8865 7215	0.010	11	11	0.000	0.005	0.025	11	11	0.000	0.023	0.030	11	11	0.000	0.008
	Network Site - Estuary Mouth	ED6A7	SX 9370 7280	0.010	1	1	0.000	0.005	0.025	1	1	0.000	0.023	0.030	1	1	0.000	0.008
Shaldon Outfall	Sea at surface of plume from Shaldon Outfall	OUT6470C	SX 9300 7280	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008
Torquay (Hopes Nose) Outfall	Sea at surface of plume from Hopes Nose Outfall	OUT6588C	SX 9500 6365	0.010	4	4	0.000	0.016	0.025	4	4	0.000	0.075	0.030	4	4	0.000	0.026
	Sea - 100 M from surface boil	OUT6588A	SX 9510 6370	0.010	4	4	0.000	0.005	0.025	4	4	0.000	0.023	0.030	4	4	0.000	0.080
	Sea - 250 M from surface boil	OUT6588B	SX 9580 6310	0.010	4	4	0.000	0.005	0.025	4	4	0.000	0.023	0.030	4	4	0.000	0.080
	Network Site - 100 M from plume	OUT6588F	SX 9492 6452	0.010	1	1	0.000	0.005	0.025	1	1	0.000	0.023	0.030	1	1	0.000	0.080
Brixham (Sharkham) Outfall	Sea at surface of plume from Sharkham Outfall	OUT6516C	SX 9380 5465	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008
	Sea - 100 M from surface boil	OUT6516A	SX 9390 5450	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
	Sea - 250 M from surface boil	OUT6516B	SX 9450 5470	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
Totnes S.T.W.	Surface of plume from Totnes S.T.W.	WSTW6321C	SX 8075 6100	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.004	0.010
Kingsbridge S.T.W.	Kingsbridge Est 100 M U/S of S.T.W.	WSTW6194A	SX 7410 4290	0.010	5	5	0.000	0.005	0.025	5	5	0.000	0.023	0.030	5	5	0.000	0.008
	Kingsbridge Est 100 M d/S of S.T.W.	WSTW6194B	SX 7400 4220	0.010	5	5	0.000	0.005	0.025	5	5	0.000	0.023	0.030	5	5	0.000	0.008
	Kingsbridge Est 250 M d/S of S.T.W.	ED8A9	SX 7420 4200	0.010	5	5	0.000	0.005	0.025	5	5	0.000	0.023	0.030	5	5	0.000	0.008
	Network Site - Estuary Mouth	ED8A5	SX 7360 3785	0.010	ND				0.025	ND				0.030	ND			

TABLE 6 : OTHER LIST I SUBSTANCES IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

EQS = Environmental Quality Standard
All units are $\mu g/l$

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	DDT (PP')					TOTAL DDT					TOTAL DRINS'				
				EQS	NO.	NO.<	LOW MEAN	HIGH MEAN	EQS	NO.	NO.<	LOW MEAN	HIGH MEAN	EQS	NO.	NO.<	LOW MEAN	HIGH MEAN
Plymouth (Marsh Mills) S.T.W.	Surface of plume from Marsh Mills S.T.W.	WSTW4728C	SX 5200 5625	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.002	0.009
	Plym Estuary 100 M U/S of S.T.W.	R11A021	SX 5190 5640	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008
	Plym Estuary 100 M D/S of S.T.W.	R11A023	SX 5190 5615	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008
	Plym Estuary 250 M D/S of S.T.W.	R11A022	SX 5010 5420	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008
	Network Site - Estuary Mouth	E11A1	SX 4900 5340	0.010	1	1	0.000	0.005	0.025	1	1	0.000	0.023	0.030	1	1	0.000	0.008
Plymouth (Billacombe) S.T.W.	Surface of plume from Billacombe S.T.W.	WSTW4720C	SX 5005 5390	0.010	ND				0.025	ND				0.030	ND			
Plymouth (Radford) S.T.W.	Surface of plume from Radford S.T.W	WSTW4726C	SX 5010 5285	0.010	3	3	0.000	0.020	0.025	3	3	0.000	0.092	0.030	3	3	0.000	0.032
West Hoe Outfall	Surface of plume from West Hoe Outfall	OUT4978C	SX 4730 5340	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
Millbrook Outfall	Surface of plume from Millbrook Outfall	OUT4920C	SX 4340 5220	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
Torpoint Trevol S.T.W.	Surface of plume from Torpoint Trevol S.T.W.	WSTW4786C	SX 4165 5410	0.010	3	3	0.000	0.020	0.025	3	3	0.000	0.092	0.030	3	3	0.002	0.033
Marlborough ST Outfall	Surface of plume from Marlborough Street Outfall	OUT4952C	SX 4470 5500	0.010	ND				0.025	ND				0.030	ND			
Albert Road Outfall	Surface of plume from Albert Road Outfall	OUT4922C	SX 4460 5540	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
Devonport Dockyard No.5	Surface of plume from Devonport Dockyard No.5 Outfall	OUT4937C	SX 4440 5620	0.010	ND				0.025	ND				0.030	ND			
Plymouth (Camels Head) S.T.W.	Surface of plume from Camels Head S.T.W.	WSTW4722C	SX 4530 5720	0.010	ND				0.025	ND				0.030	ND			
Plymouth (Ernesettle) S.T.W.	Surface of plume from Ernesettle S.T.W.	WSTW4724C	SX 4390 6045	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008
	Plymouth Sound 100 M U/S of S.T.W.	R12A008	SX 4410 6070	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008
	Plymouth Sound 100 M D/S of S.T.W.	R12A017	SX 4385 6020	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008
	Plymouth Sound 250 M D/S of S.T.W.	R12A016	SX 4380 6000	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008

TABLE 6 : OTHER LIST I SUBSTANCES IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

EQS = Environmental Quality Standard
All units are µg/l

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	DDT (PP')					TOTAL DDT					TOTAL DRINS'				
				EQS	NO.	NO.<	LOW MEAN	HIGH MEAN	EQS	NO.	NO.<	LOW MEAN	HIGH MEAN	EQS	NO.	NO.<	LOW MEAN	HIGH MEAN
Looe S.T.W.	Surface of plume from Looe S.T.W.	WSTW1660C	SX 2485 5380	0.010	2	2	0.000	0.028	0.025	2	2	0.000	0.127	0.030	2	2	0.000	0.044
	West Looe R. 100 M U/S of S.T.W.	WSTW1660A	SX 2432 5352	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008
	West Looe R. 100 M D/S of S.T.W.	WSTW1660B	SX 2446 5360	0.010	2	2	0.000	0.028	0.025	2	2	0.000	0.127	0.030	2	2	0.000	0.044
	West Looe R. 250 M D/S of S.T.W.	WSTW1660D	SX 2450 5361	0.010	2	2	0.000	0.028	0.025	2	2	0.000	0.127	0.030	2	2	0.002	0.045
Par S.T.W.	Sea at surface of plume from Par S.T.W.	OUT2058C	SX 0731 5220	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008
	St Austell Bay - 100 M from S.B.	OUT2058A	SX 0732 5224	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008
	St Austell Bay - 250 M from S.B.	OUT2058B	SX 0732 5224	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008
Truro (Newham) S.T.W.	Surface of plume from Newham S.T.W.	WSTW0240C	SW 8340 4325	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
	Truro River 100 M U/S of S.T.W.	WSTW0240D	SW 8332 4345	0.010	1	1	0.000	0.005	0.025	1	1	0.000	0.023	0.030	1	1	0.000	0.008
	Truro River 100 M D/S of S.T.W.	WSTW0240E	SW 8350 4325	0.010	1	1	0.000	0.005	0.025	1	1	0.000	0.023	0.030	1	1	0.000	0.008
	Truro River 250 M D/S of S.T.W.	WSTW0240F	SW 8366 4320	0.010	1	1	0.000	0.005	0.025	1	1	0.000	0.023	0.030	1	1	0.000	0.008
Falmouth (Middle Point) Outfall	Sea at surface of plume from Middle Point Outfall	OUT0420C	SW 8270 3200	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
	Carrick Roads - 100 M from S.B.	OUT0420A	SW 8260 3210	0.010	1	1	0.000	0.005	0.025	1	1	0.000	0.023	0.030	1	1	0.000	0.008
	Carrick Roads - 250 M from S.B.	OUT0420B	SW 8260 3220	0.010	1	1	0.000	0.005	0.025	1	1	0.000	0.023	0.030	1	1	0.000	0.008
Falmouth (Pennance Pt.) Outfall	Sea at surface of plume from Pennance Pt. Outfall	OUT0421C	SW 8050 3045	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
	Sea - 100 M from surface boil	OUT0421B	SW 8063 3035	0.010	1	1	0.000	0.005	0.025	1	1	0.000	0.023	0.030	1	1	0.000	0.008
	Sea - 250 M from surface boil	OUT0421D	SW 8076 3026	0.010	1	1	0.000	0.005	0.025	1	1	0.000	0.023	0.030	1	1	0.000	0.008
Penzance (Chyandour) Outfall	Sea at surface of plume from Chyandour Outfall	OUT0554C	SW 4810 3070	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
	Network Site - Ryemin	OUT0554D	SW 4950 3050	0.010	1	1	0.000	0.005	0.025	1	1	0.000	0.023	0.030	1	1	0.000	0.008
Penzance (Albert Pier) Outfall	Sea at surface of plume from Albert Pier Outfall	OUT0550C	SW 4790 3040	0.010	3	3	0.000	0.020	0.025	3	3	0.000	0.092	0.030	3	3	0.000	0.032

TABLE 6 : OTHER LIST I SUBSTANCES IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

EQS = Environmental Quality Standard
All units are µg/l

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	DDT (PP')					TOTAL DDT					TOTAL DRINS'				
				EQS	NO.	NO.<	LOW MEAN	HIGH MEAN	EQS	NO.	NO.<	LOW MEAN	HIGH MEAN	EQS	NO.	NO.<	LOW MEAN	HIGH MEAN
Penzance (Wherry Town) Outfall	Sea at surface of plume from Wherry Town Outfall	OUT0558C	SW 4690 2920	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
Newlyn (River) Outfall	Sea at surface of plume from Newlyn (River) Outfall	OUT0543C	SW 4650 2890	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
	Network Site - Off Skilly	OUT0543D	SW 4800 2770	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008
Hayle S.T.W.	Surface of plume from Hayle S.T.W.	WSTW0084C	SW 5462 3645	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
	Hayle Estuary 100 M U/S of S.T.W.	WSTW0084A	SW 5480 3640	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008
	Hayle Estuary 100 M D/S of S.T.W.	WSTW0084D	SW 5475 3655	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008
	Hayle Estuary 250 M D/S of S.T.W.	WSTW0084E	SW 5480 3667	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008
Camborne (North Cliffs) Outfall	Sea at surface of plume from North Cliffs Outfall	OUT0508C	SW 6218 4331	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
Redruth (Portreath) Outfall	Sea at surface of plume from Portreath Outfall	OUT0579C	SW 6610 4620	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
Perranporth (Cligga) Outfall	Sea at surface of plume from Cligga Head Outfall	OUT0560C	SW 7450 5400	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
Newquay (Town Head) Outfall	Sea at surface of plume from Town Head Outfall	OUT2046C	SW 8010 6300	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
Bude (Compass Point) Outfall	Sea at surface of plume from Compass Point Outfall	OUT3510C	SS 1970 0630	0.010	5	5	0.000	0.014	0.025	5	5	0.000	0.066	0.030	5	5	0.003	0.024
	Sea - 100 M from surface boil	OUT3510B	SS 1960 0634	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
	Sea - 250 M from surface boil	OUT3510D	SS 1945 0635	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
East the Water Outfall	Surface of plume from East the Water Outfall	OUT3422C	SS 4550 2660	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008
	Torridge Est 100 M U/S of Outfall	E29C7	SS 4560 2660	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008
	Torridge Est 100 M D/S of Outfall	E29A10	SS 4550 2670	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008
	Torridge Est 250 M D/S of Outfall	E29CD	SS 4570 2730	0.010	1	1	0.000	0.005	0.025	1	1	0.000	0.023	0.030	1	1	0.000	0.008
Bideford (Victoria Pk.) Outfall	Surface of plume from Victoria Pk Outfall	OUT3426C	SS 4580 2730	0.010	1	1	0.000	0.005	0.025	1	1	0.000	0.023	0.030	1	1	0.000	0.008

TABLE 6 : OTHER LIST I SUBSTANCES IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

EQS = Environmental Quality Standard
All units are µg/l

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	DDT (PP')					TOTAL DDT					TOTAL DRINS'				
				EQS	NO.	NO.<	LOW MEAN	HIGH MEAN	EQS	NO.	NO.<	LOW MEAN	HIGH MEAN	EQS	NO.	NO.<	LOW MEAN	HIGH MEAN
Ilfracombe (Cheyne) Outfall	Sea at surface of plume from Ilfracombe (Cheyne) Outfall	OUT3530C	SS 5220 4810	0.010	1	1	0.000	0.005	0.025	1	1	0.000	0.023	0.030	1	1	0.000	0.008
Combe Martin Outfall	Sea at surface of plume from Combe Martin Outfall	OUT3512C	SS 5750 4775	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.000	0.008
Croyde / Georgeham Outfall	Sea at surface of plume from Croyde / Georgeham Outfall	OUT3514C	SS 4210 4030	0.010	2	2	0.000	0.005	0.025	2	2	0.000	0.023	0.030	2	2	0.001	0.009
Kendall U.K. Outfall (Veratec Ltd)	Surface of plume from Veratec Outfall	P30A/P/25C	SS 4845 3525	0.010	ND				0.025	ND				0.030	ND			
Barnstaple (Ashford) S.T.W.	Surface of plume from Ashford S.T.W	WSTW3013C	SS 5295 3420	0.010	6	6	0.000	0.005	0.025	6	6	0.000	0.023	0.030	6	6	0.009	0.015
	Taw Estuary 100 M U/S of S.T.W.	E30A7	SS 5310 3393	0.010	6	6	0.000	0.005	0.025	6	6	0.000	0.023	0.030	6	6	0.000	0.008
	Taw Estuary 100 M D/S of S.T.W.	E30A11	SS 5310 3420	0.010	6	6	0.000	0.005	0.025	6	6	0.000	0.023	0.030	6	6	0.000	0.008
	Taw Estuary 250 M D/S of S.T.W.	E30A10	SS 5285 3430	0.010	5	5	0.000	0.005	0.025	5	5	0.000	0.023	0.030	5	5	0.000	0.008
	Network Site - Estuary Mouth	E30A2	SS 4820 3270	0.010	ND				0.025	ND				0.030	ND			
Braunton (Velator) S.T.W.	Surface of plume from Velator S.T.W.	WSTW3038C	SS 4850 3545	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.004	0.011
	River Caen 100 M U/S of S.T.W.	E30B3	SS 4853 3565	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.000	0.008
	River Caen 100 M D/S of S.T.W.	E30A13	SS 4850 3540	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.003	0.010
	River Caen 250 M D/S of S.T.W.	E30A12	SS 4840 3520	0.010	3	3	0.000	0.005	0.025	3	3	0.000	0.023	0.030	3	3	0.007	0.014
Bideford (Bridgeland ST) Outfall	Surface of plume from Bridgeland ST Outfall	OUT3420C	SS 4555 2680	0.010	3	3	0.000	0.035	0.025	3	3	0.000	0.161	0.030	3	3	0.000	0.056

NOTES : (1) ND = No Data for 1990

TABLE 6 : OTHER LIST I SUBSTANCES IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

EQS = Environmental Quality Standard
All units are µg/l

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	P.C.P.					C.T.C.				
				EQS	NO.	NO.<	LOW MEAN	HIGH MEAN	EQS	NO.	NO.<	LOW MEAN	HIGH MEAN
Sidmouth Outfall	Sea at surface of plume from Sidmouth Outfall	OUT8080C	SY 1290 8690	2.00	1	1	0.000	0.005	12.00	1	1	0.000	1.000
Bideford (Bridgeland ST) Outfall	Surface of plume from Bridgeland ST Outfall	OUT3420C	SS 4555 2680	2.00	2	2	0.000	0.100	12.00	2	2	0.000	0.100
Barnstaple (Ashford) S.T.W.	Surface of plume from Ashford S.T.W	WSTW3013C	SS 5295 3420	2.00	1	1	0.000	0.100	12.00	1	0	0.100	0.100
	Taw Estuary 100 M U/S of S.T.W.	E30A7	SS 5310 3393	2.00	1	1	0.000	0.100	12.00	1	1	0.000	0.100
	Taw Estuary 100 M D/S of S.T.W.	E30A11	SS 5310 3420	2.00	1	0	0.200	0.200	12.00	1	1	0.000	0.100

TABLE 7 : LIST II – METALS IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

All units are µg/l

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	COPPER					ZINC					LEAD					ENVIRONMENTAL QUALITY STANDARD			BASS OR FAIL
				DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	Cu	Zn	Pb	
Seaton S.T.W.	Surface of plume from Seaton S.T.W.	WSTW7756C	SY 254 907	D	4	0	2.62	2.62	D	4	0	17.78	17.78	D	4	4	0.00	2.50	5	40	25	P
	Axe Estuary 100m U/S of S.T.W.	E02C1	SY 254 911	D	4	0	1.20	1.20	D	4	2	7.80	9.80	D	4	4	0.00	2.50	5	40	25	P
	Axe Estuary 100m D/S of S.T.W.	E02B1	SY 254 905	D	4	0	1.44	1.44	D	4	1	6.53	7.53	D	4	4	0.00	2.50	5	40	25	P
	Axe Estuary 250m D/S of S.T.W.	E02A1	SY 253 899	D	4	0	1.53	1.53	D	4	1	6.48	7.48	D	4	4	0.00	2.50	5	40	25	P
Sidmouth Outfall	Sea at surface of plume from Sidmouth Outfall	OUT8080C	SY 129 869	D	3	0	6.15	6.15	D	3	1	10.00	11.33	D	3	2	2.07	3.73	5	40	25	F
Exmouth S.T.W.	Sea at surface of plume from Exmouth S.T.W.	OUT7600C	SY 037 794	D	3	0	3.75	3.75	D	3	1	7.57	8.90	D	3	3	0.00	2.50	5	40	25	P
	Sea – 100m from Surface Boil	OUT7600A	SX 032 792	D	3	1	0.39	0.55	D	3	0	7.33	7.33	D	3	3	0.00	2.50	5	40	25	P
	Sea – 250m from Surface Boil	OUT7600B	SX 040 780	D	3	1	0.18	0.52	D	3	0	9.73	9.73	D	3	3	0.00	2.50	5	40	25	P
Countess Wear (Exeter) S.T.W.	Surface of plume from (Exeter) Countess Wear S.T.W.	WSTW7594C	SX 950 891	D	6	0	1.17	1.17	D	6	1	13.62	14.28	D	6	6	0.00	2.50	5	40	25	P
	Exe Estuary 100m U/S of S.T.W.	E05A3	SX 943 894	D	6	1	1.12	1.21	D	6	2	6.25	7.58	D	6	6	0.00	2.50	5	40	25	P
	Exe Estuary 100m D/S of S.T.W.	E05A19	SX 951 890	D	6	0	2.00	2.00	D	6	0	26.05	26.05	D	6	6	0.00	2.50	5	40	25	P
	Exe Estuary 250m D/S of S.T.W.	E05A18	SX 952 889	D	6	0	1.80	1.80	D	6	0	19.57	19.57	D	6	6	0.00	2.50	5	40	25	P
Newton Abbot (Buckland) S.T.W.	Surface of plume from Newton Abbot (Buckland) S.T.W.	WSTW6250C	SX 884 722	D	5	0	2.13	2.13	D	5	0	26.86	26.86	D	5	2	5.17	6.17	5	40	25	P
	Teign Estuary 100m U/S of S.T.W.	E06A1	SX 882 722	D	4	0	1.18	1.18	D	4	0	17.63	17.63	D	4	4	0.00	2.50	5	40	25	P
	Teign Estuary 100m D/S of S.T.W.	E06A5	SX 885 722	D	5	0	1.57	1.57	D	5	0	16.44	16.44	D	5	5	0.00	2.50	5	40	25	P
	Teign Estuary 250m D/S of S.T.W.	E06A6	SX 887 722	D	5	0	1.37	1.37	D	5	0	12.98	12.98	D	5	5	0.00	2.50	5	40	25	P
Brixham (Sharkham Point) outfall	Sea at surface of plume from Sharkham Point outfall	OUT6516C	SX 938 547	D	2	0	0.97	0.97	D	2	1	8.50	10.50	D	2	2	0.00	2.50	5	40	25	P
	Sea – 100m from Surface Boil	OUT6516A	SX 939 545	D	3	1	0.47	0.64	D	3	2	6.07	8.73	D	3	3	0.00	2.50	5	40	25	P
	Sea – 250m from Surface Boil	OUT6516B	SX 945 547	D	3	2	1.27	1.60	D	3	1	7.33	8.67	D	3	3	0.00	2.50	5	40	25	P

TABLE 7 : LIST II - METALS IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

All units are µg/l

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	COPPER					ZINC					LEAD					ENVIRONMENTAL QUALITY STANDARD			PASS OR FAIL
				DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	O_2	Zn	Pb	
Torquay (Hopes Nose) outfall	Sea at surface of plume from Hopes Nose outfall	OUT6588C	SX 950 637	D	4	0	2.17	2.17	D	4	0	17.83	17.83	D	4	2	1.78	3.03	5	40	25	P
	Sea - 100m from Surface Boil	OUT6588A	SX 951 637	D	4	0	1.30	1.30	D	4	0	12.43	12.43	D	4	4	0.00	2.50	5	40	25	P
	Sea - 250m from Surface Boil	OUT6588B	SX 958 631	D	4	0	0.65	0.65	D	4	1	6.50	7.50	D	4	4	0.00	2.50	5	40	25	P
Totnes S.T.W.	Surface of plume from Totnes S.T.W.	WSTW6321C	SX 808 610	D	2	0	2.73	2.73	D	2	0	42.10	42.10	D	2	0	14.16	14.16	5	40	25	F
International Paints	Surface of plume from Trade Effluent NO. 1	P10A/P/20C	SX		ND (1)					ND					ND				5	40	25	P
	Surface of plume from Trade Effluent NO. 2	P10A/P/26C	SX 541 479	D	2	0	7.04	7.04	D	2	0	12.70	12.70	D	2	2	0.00	2.50	5	40	25	F
Plymouth (Marsh Mills) S.T.W.	Surface of plume from Plymouth (Marsh Mills) S.T.W.	WSTW4728C	SX 520 563	D	6	0	5.32	5.32	D	6	0	26.88	26.88	D	6	4	1.35	3.01	5	40	25	F
	Plym Estuary 100m U/S of S.T.W.	R11A021	SX 519 564	D	6	0	6.08	6.08	D	6	0	18.73	18.73	D	6	6	0.00	2.50	5	40	25	F
	Plym Estuary 100m D/S of S.T.W.	R11A023	SX 519 562	D	6	0	4.36	4.36	D	6	0	18.48	18.48	D	6	6	0.00	2.50	5	40	25	P
	Plym Estuary 250m D/S of S.T.W.	R11A022	SX 501 542	D	6	0	5.76	5.76	D	6	0	24.42	24.42	D	6	5	1.09	3.18	5	40	25	F
West Hoe Outfall	Surface of plume from West Hoe Outfall	OUT4978C	SX 473 534	D	3	1	0.55	0.71	D	3	0	12.87	12.87	D.	3	3	0.00	2.50	5	40	25	P
Plymouth (Eastern Kings) outfall	Surface of plume from Plymouth (Eastern Kings) Outfall	OUT4940C	SX 468 534	D	6	0	1.04	1.04	D	6	2	10.28	11.62	D	6	6	0.00	2.50	5	40	25	P
	Plymouth Sound 100m U/S of Outfall	R12A006	SX 464 532	D	6	1	0.91	0.99	D	6	1	11.13	11.80	D	6	6	0.00	2.50	5	40	25	P
	Plymouth Sound 100m D/S of Outfall	R12A007	SX 468 533	D	6	1	0.80	0.88	D	6	1	9.53	10.20	D	6	6	0.00	2.50	5	40	25	P
	Plymouth Sound 250m D/S of Outfall	R12A018	SX 470 532	D	6	0	0.94	0.94	D	6	2	6.70	8.03	D	6	6	0.00	2.50	5	40	25	P
Millbrook Outfall	Surface of plume from Millbrook Outfall	OUT4920C	SX 434 522	D	3	0	1.38	1.38	D	3	0	11.27	11.27	D	3	3	0.00	2.50	5	40	25	P
Edinburgh Street Outfall	Surface of plume from Edinburgh Street Outfall	OUT4942C	SX 446 542		ND					ND					ND				5	40	25	P
Torpoint-Trevol Outfall	Surface of plume from Torpoint-Trevol Outfall	WSTW4786C	SX 417 541	D	3	0	1.43	1.43	D	3	0	26.23	26.23	D	3	3	0.00	2.50	5	40	25	P

TABLE 7 : LIST II – METALS IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

All units are $\mu g/l$

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	COPPER					ZINC					LEAD					ENVIRONMENTAL QUALITY STANDARD			BASS OR FAIL
				DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	Cu	Zn	Pb	
Marlborough Street Outfall	Surface of plume from Marlborough Street Outfall	OUT4952C	SX 447 550		ND					ND					ND				5	40	25	P
Albert Road Outfall	Surface of plume from Albert Road Outfall	OUT4922C	SX 446 554	D	3	0	1.68	1.68	D	3	0	16.03	16.03	D	3	3	0.00	2.50	5	40	25	P
ST Levan Road Outfall	Surface of plume from ST Levan Rd Outfall	OUT4972C	SX 445 559		ND					ND					ND				5	40	25	P
Devonport Dockyard No 5	Surface of plume from Devonport Dockyard No 5 Outfall	OUT4937C	SX 440 562		ND					ND					ND				5	40	25	P
Devonport Dockyard No 2	Surface of plume from Devonport Dockyard No 2 Outfall	OUT4939C	SX 448 570		ND					ND					ND				5	40	25	P
Plymouth (Camel's Head) S.T.W.	Surface of plume from Camel's Head S.T.W.	WSTW4722C	SX 453 572		ND					ND					ND				5	40	25	P
Plymouth (Ernesettle) S.T.W.	Surface of plume from Ernesettle S.T.W.	WSTW4724C	SX 439 605	D	3	0	3.08	3.08	D	3	0	17.93	17.93	D	3	3	0.00	2.50	5	40	25	P
	Tamar Estuary 100m U/S of S.T.W.	R12A008	SX 441 607	D	3	0	2.84	2.84	D	3	0	12.20	12.20	D	3	3	0.00	2.50	5	40	25	P
	Tamar Estuary 100m D/S of S.T.W.	R12A017	SX 439 603	D	2	0	2.04	2.04	D	2	0	9.55	9.55	D	2	2	0.00	2.50	5	40	25	P
	Tamar Estuary 250m D/S of S.T.W.	R12A016	SX 438 600	D	3	0	1.96	1.96	D	3	0	14.17	14.17	D	3	3	0.00	2.50	5	40	25	P
Saltash (Coombe) S.T.W.	Surface of plume from Saltash (Coombe) S.T.W.	WSTW4763C	SX 431 582	D	3	0	1.56	1.56	D	3	0	8.03	8.03	D	3	3	0.00	2.50	5	40	25	P
	Tamar Estuary 100m U/S of S.T.W.	R12A010	SX 432 584	D	3	0	1.50	1.50	D	3	1	8.83	10.17	D	3	3	0.00	2.50	5	40	25	P
	Tamar Estuary 100m D/S of S.T.W.	R12A015	SX 430 581	D	3	0	1.63	1.63	D	3	0	10.00	10.00	D	3	3	0.00	2.50	5	40	25	P
	Tamar Estuary 250m D/S of S.T.W.	R12A011	SX 430 578	D	3	0	1.25	1.25	D	3	1	9.00	10.33	D	3	3	0.00	2.50	5	40	25	P
Par S.T.W.	See at surface of plume from Par S.T.W.	OUT2058C	SX 073 523	D	2	0	5.78	5.78	D	2	0	38.65	38.65	D	2	2	0.00	2.50	5	40	25	F
	ST Austell Bay – 100m from Surface Boil	OUT2058A	SX 073 522	D	2	0	2.40	2.40	D	2	1	9.20	11.20	D	2	2	0.00	2.50	5	40	25	P
	ST Austell Bay – 250m from Surface Boil	OUT2058B	SX 073 522	D	2	0	0.75	0.75	D	2	0	6.55	6.55	D	2	2	0.00	2.50	5	40	25	P

TABLE 7 : LIST II - METALS IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

All units are $\mu g/l$

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	COPPER					ZINC					LEAD					ENVIRONMENTAL QUALITY STANDARD			BASS OR FAIL
				DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	Cu	Zn	Pb	
Charlestown outfall	Sea at surface of plume from Charlestown outfall	CUT2016C	SX 039 512	D	2	0	2.24	2.24	D	2	0	19.50	19.50	D	2	2	0.00	2.50	5	40	25	P
Wheal Jane Mine Outfall (Lighterage Quay)	Surface of plume from Wheal Jane Mine Outfall	P19B/P/403C	SW 833 433		ND					ND					ND				5	40	25	P
Truro (Newham) S.T.W.	Surface of plume from Truro (Newham) S.T.W.	WSTW0240C	SW 834 433	D	3	0	2.55	2.55	D	3	0	38.70	38.70	D	3	2	0.91	2.58	5	40	25	P
	Truro River 100m U/S of S.T.W.	WSTW0240D	SW 833 435	D	3	0	3.34	3.34	D	3	0	222.67	222.67	D	3	3	0.00	2.50	5	40	25	F
	Truro River 100m D/S of S.T.W.	WSTW0240E	SW 835 433	D	3	0	2.33	2.33	D	3	0	34.00	34.00	D	3	3	0.00	2.50	5	40	25	P
	Truro River 250m D/S of S.T.W.	WSTW0240F	SW 837 432	D	3	0	2.44	2.44	D	3	0	21.30	21.30	D	3	3	0.00	2.50	5	40	25	P
Falmouth (Middle Point) Outfall	Surface of plume from Middle Point Outfall	CUT0420C	SW 827 320	D	2	0	1.29	1.29	D	2	0	31.30	31.30	D	2	2	0.00	2.50	5	40	25	P
	Carrick Roads - 100m from Surface Boil	CUT0420A	SW 826 321	D	3	0	1.42	1.42	D	3	1	10.70	12.03	D	3	3	0.00	2.50	5	40	25	P
	Carrick Roads - 250m from Surface Boil	CUT0420B	SW 826 322	D	3	0	1.35	1.35	D	3	0	10.20	10.20	D	3	3	0.00	2.50	5	40	25	P
Falmouth (Pennance Point Outfall	Sea at surface of plume from Pennance Point Outfall	CUT0421C	SW 805 305	D	2	0	1.49	1.49	D	2	0	20.30	20.30	D	2	2	0.00	2.50	5	40	25	P
	Sea - 100m from Surface Boil	CUT0421B	SW 806 304	D	3	0	1.09	1.09	D	3	1	7.43	8.77	D	3	3	0.00	2.50	5	40	25	P
	Sea - 250m from Surface Boil	CUT0421D	SW 808 303	D	3	0	1.43	1.43	D	3	0	12.83	12.83	D	3	3	0.00	2.50	5	40	25	P
Mullion Outfall	Sea at surface of plume from Mullion Outfall	CUT0538C	SW 664 190	D	3	0	1.60	1.60	D	3	0	26.37	26.37	D	3	3	0.00	2.50	5	40	25	P
Penzance (Wherrytown) Outfall	Sea at surface of plume from Wherrytown Outfall	CUT0558C	SW 469 292	D	5	0	2.64	2.64	D	5	0	18.84	18.84	D	5	5	0.00	2.50	5	40	25	P
Geevor Tin Mine Outfall	Sea at Surface of plume from Geevor Tin Mine Outfall	CUT0514C	SW 371 350		ND					ND					ND				5	40	25	P
	Sea - 100m from Surface Boil	CUT0514D	SW 370 351		ND					ND					ND				5	40	25	P
	Sea - 250m from Surface Boil	CUT0514B	SW 372 352		ND					ND					ND				5	40	25	P

TABLE 7 : LIST II - METALS IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

All units are $\mu g/l$

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	COPPER					ZINC					LEAD					ENVIRONMENTAL QUALITY STANDARD			PASS OR FAIL
				DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	Cu	Zn	Pb	
Hayle S.T.W.	Surface of plume from Hayle S.T.W.	WSTW0084C	SW 546 365	D	3	0	4.57	4.57	D	3	0	203.93	203.93	D	3	3	0.00	2.50	5	40	25	P
	Hayle Estuary 100m U/S of S.T.W.	WSTW0084A	SW 548 364	D	3	0	11.79	11.79	D	3	0	470.67	470.67	D	3	3	0.00	2.50	5	40	25	P
	Hayle Estuary 100m D/S of S.T.W.	WSTW0084D	SW 548 366	D	3	0	13.44	13.44	D	3	0	230.00	230.00	D	3	3	0.00	2.50	5	40	25	P
	Hayle Estuary 250m D/S of S.T.W.	WSTW0084E	SW 548 367	D	3	0	14.48	14.48	D	3	0	285.67	285.67	D	3	3	0.00	2.50	5	40	25	P
Camborne (North Cliffs) outfall	Sea at surface of plume from Camborne (North Cliffs) Outfall	OUT0508C	SW 622 433	D	3	0	2.23	2.23	D	3	0	26.50	26.50	D	3	3	0.00	2.50	5	40	25	P
Redruth (Portreath) outfall	Sea at surface of plume from Redruth (Portreath) Outfall	OUT0579C	SW 661 462	D	3	0	4.41	4.41	D	3	0	34.27	34.27	D	3	3	0.00	2.50	5	40	25	P
Newquay (Towan Head) Outfall	Sea at surface of plume from Newquay (Towan Head) Outfall	OUT2046C	SW 801 630	D	3	0	1.91	1.91	D	3	0	12.97	12.97	D	3	3	0.00	2.50	5	40	25	P
Bude (Compass Point) Outfall	Sea at surface of plume from Bude (Compass Point) Outfall	OUT3510C	SS 197 063	D	4	0	4.70	4.70	D	4	0	41.03	41.03	D	4	3	1.54	3.41	5	40	25	F
	Sea - 100m from Surface Boil	OUT3510B	SS 196 063	D	2	0	1.04	1.04	D	2	0	9.15	9.15	D	2	2	0.00	2.50	5	40	25	P
	Sea - 250m from Surface Boil	OUT3510D	SS 195 064	D	3	0	2.66	2.66	D	3	0	9.77	9.77	D	3	3	0.00	2.50	5	40	25	P
Bideford(East-the-Water) outfall	Surface of plume from Bideford (East-the-Water) Outfall	OUT3422C	SS 455 266	D	1	0	135.00	135.00	D	1	0	55.60	55.60	D	1	1	0.00	2.50	5	40	25	P
	Torridge Estuary 100m U/S of Outfall	E29C7	SS 456 266	D	1	0	1.04	1.04	D	1	0	20.20	20.20	D	1	1	0.00	2.50	5	40	25	P
	Torridge Estuary 100m D/S of Outfall	E29A10	SS 455 267	D	1	0	1.81	1.81	D	1	0	17.70	17.70	D	1	1	0.00	2.50	5	40	25	P
	Torridge Estuary 250m D/S of Outfall	E29C0	SS 457 273	D	1	0	1.31	1.31	D	1	0	12.10	12.10	D	1	1	0.00	2.50	5	40	25	P
Braunton (Velator) S.T.W.	Surface of plume from Braunton (Velator) S.T.W.	WSTW0038C	SS 485 355	D	3	0	5.05	5.05	D	3	0	32.20	32.20	D	3	1	2.43	3.27	5	40	25	F
	River Caen 100m U/S of S.T.W.	E30B3	SS 485 357	D	3	0	1.09	1.09	D	3	3	0.00	4.00	D	3	3	0.00	2.50	5	40	25	P
	River Caen 100m D/S of S.T.W.	E30A13	SS 485 354	D	3	0	3.51	3.51	D	3	1	14.90	16.23	D	3	2	1.57	3.23	5	40	25	P
	River Caen 250m D/S of S.T.W.	E30A12	SS 482 352	D	3	0	2.60	2.60	D	3	1	15.30	16.63	D	3	2	0.90	2.57	5	40	25	P

TABLE 7 : LIST II - METALS IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

All units are $\mu g/l$

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	COPPER					ZINC					LEAD					ENVIRONMENTAL QUALITY STANDARD			PASS OR FAIL
				DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	Cu	Zn	Pb	
Kendall U.K. Outfall (Veratec ltd)	Surface of plume from Kendall U.K. Outfall	P30A/P/25C	SS 485 353		ND					ND					ND				5	40	25	P
Barnstaple (Ashford) S.T.W.	Surface of plume from Barnstaple (Ashford) S.T.W.	WSTW0013C	SS 530 342	D	3	0	6.59	6.59	D	3	0	31.43	31.43	D	3	2	4.07	5.73	5	40	25	F
	Taw Estuary 100m U/S of S.T.W.	E30A7	SS 531 339	D	3	0	1.18	1.18	D	3	2	3.23	5.90	D	3	3	0.00	2.50	5	40	25	P
	Taw Estuary 100m D/S of S.T.W.	E30A11	SS 531 342	D	3	0	2.11	2.11	D	3	2	6.77	9.43	D	3	3	0.00	2.50	5	40	25	P
	Taw Estuary 250m D/S of S.T.W.	E30A10	SS 529 343	D	5	0	1.77	1.77	D	5	0	11.74	11.74	D	5	5	0.00	2.50	5	40	25	P
Croyde/Georgsham Outfall	See at surface of plume from Croyde/Georgsham Outfall	OUT3514C	SS 421 403	D	2	0	4.14	4.14	D	2	0	12.80	12.80	D	2	2	0.00	2.50	5	40	25	P
Ilfracombe (Cheyne) Outfall	See at surface of plume from Ilfracombe (Cheyne) Outfall	OUT3530C	SS 522 481	D	1	0	0.58	0.58	D	1	1	0.00	4.00	D	1	1	0.00	2.50	5	40	25	P

NOTES : (1) ND = No Data for 1990
(2) No Chromium Data for 1990

TABLE 7 : LIST II - METALS IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

All units are $\mu g/l$

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	NICKEL					ARSENIC					ENVIRONMENTAL QUALITY STANDARD (2)			PASS OR FAIL
				DISS OR TOT	NO.	ND.<	LOW MEAN	HIGH MEAN	DISS OR TOT	NO.	ND.<	LOW MEAN	HIGH MEAN	Cr	Ni	As	
Seaton S.T.W.	Surface of plume from Seaton S.T.W.	WSTW7756C	SY 254 907	D	4	4	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
	Axe Estuary 100m U/S of S.T.W.	ED2C1	SY 254 911	D	4	4	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
	Axe Estuary 100m D/S of S.T.W.	ED2B1	SY 254 905	D	4	4	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
	Axe Estuary 250m D/S of S.T.W.	ED2A1	SY 253 899	D	4	4	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
Sidmouth Outfall	Sea at surface of plume from Sidmouth Outfall	OUT8080C	SY 129 869	D	3	3	0.00	3.00	T	3	3	0.00	8.33	15	30	25	P
Exmouth S.T.W.	Sea at surface of plume from Exmouth S.T.W.	OUT7600C	SY 037 794	D	3	1	3.36	4.36	T	2	2	0.00	10.00	15	30	25	P
	Sea - 100m from Surface Boil	OUT7600A	SX 032 792	D	3	3	0.00	3.00	T	2	2	0.00	10.00	15	30	25	P
	Sea - 250m from Surface Boil	OUT7600B	SX 040 780	D	3	1	1.42	3.42	T	2	2	0.00	10.00	15	30	25	P
Countess Wear (Exeter) S.T.W.	Surface of plume from (Exeter) Countess Wear S.T.W.	WSTW7594C	SX 950 891	D	6	5	1.88	3.44	T	5	5	0.00	9.00	15	30	25	P
	Exe Estuary 100m U/S of S.T.W.	ED5A3	SX 943 894	D	6	6	0.00	3.00	T	5	5	0.00	9.00	15	30	25	P
	Exe Estuary 100m D/S of S.T.W.	ED5A19	SX 951 890	D	6	3	2.58	4.08	T	5	5	0.00	9.00	15	30	25	P
	Exe Estuary 250m D/S of S.T.W.	ED5A18	SX 952 889	D	6	5	1.02	3.52	T	5	5	0.00	9.00	15	30	25	P
Newton Abbot (Buckland) S.T.W.	Surface of plume from Newton Abbot (Buckland) S.T.W.	WSTW6250C	SX 884 722	D	5	4	0.89	3.29	T	4	4	0.00	8.75	15	30	25	P
	Teign Estuary 100m U/S of S.T.W.	ED6A1	SX 882 722	D	4	3	2.47	4.72	T	4	4	0.00	8.75	15	30	25	P
	Teign Estuary 100m D/S of S.T.W.	ED6A5	SX 885 722	D	5	3	1.61	3.41	T	4	4	0.00	8.75	15	30	25	P
	Teign Estuary 250m D/S of S.T.W.	ED6A6	SX 887 722	D	5	5	0.00	3.00	T	4	4	0.00	8.75	15	30	25	P
Brixham (Sharkham Point) outfall	Sea at surface of plume from Sharkham Point outfall	OUT6516C	SX 938 547	D	2	2	0.00	3.00	T	1	1	0.00	10.00	15	30	25	P
	Sea - 100m from Surface Boil	OUT6516A	SX 939 545	D	3	3	0.00	3.00	T	2	2	0.00	10.00	15	30	25	P
	Sea - 250m from Surface Boil	OUT6516B	SX 945 547	D	3	2	1.12	3.12	T	2	2	0.00	10.00	15	30	25	P

TABLE 7 : LIST II - METALS IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

All units are µg/l

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	NICKEL					ARSENIC					ENVIRONMENTAL QUALITY STANDARD (2)			BASS OR FAIL
				DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	Cr	Ni	As	
Torquay (Hopes Nose) outfall	Sea at surface of plume from Hopes Nose outfall	OUT6588C	SX 950 637	D	4	3	0.93	3.18	T	5	5	0.00	9.00	15	30	25	P
	Sea - 100m from Surface Boil	OUT6588A	SX 951 637	D	4	4	0.00	3.00	T	4	4	0.00	10.00	15	30	25	P
	Sea - 250m from Surface Boil	OUT6588B	SX 958 631	D	4	4	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
Totnes S.T.W.	Surface of plume from Totnes S.T.W.	WSTW6321C	SX 808 610	D	2	2	0.00	3.00	T	2	2	0.00	7.50	15	30	25	P
International Paints	Surface of plume from Trade Effluent NO. 1	P10A/P/20C	SX		ND					ND				15	30	25	P
	Surface of plume from Trade Effluent NO. 2	P10A/P/26C	SX 541 479	D	2	2	0.00	3.00	T	1	1	0.00	10.00	15	30	25	P
Plymouth (Marsh Mills) S.T.W.	Surface of plume from Plymouth (Marsh Mills) S.T.W.	WSTW4728C	SX 520 563	D	6	1	16.79	17.29	T	6	4	5.00	11.67	15	30	25	P
	Plym Estuary 100m U/S of S.T.W.	R11A021	SX 519 564	D	6	1	4.76	5.26	T	6	3	5.00	10.00	15	30	25	P
	Plym Estuary 100m D/S of S.T.W.	R11A023	SX 519 562	D	6	1	4.93	5.43	T	6	6	0.00	10.00	15	30	25	P
	Plym Estuary 250m D/S of S.T.W.	R11A022	SX 501 542	D	6	1	6.31	6.81	T	5	3	4.00	10.00	15	30	25	P
West Hoe Outfall	Surface of plume from West Hoe Outfall	OUTM978C	SX 473 534	D	3	3	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
Plymouth (Eastern Kings) outfall	Surface of plume from Plymouth (Eastern Kings) Outfall	OUTM940C	SX 468 534	D	6	6	0.00	3.00	T	5	5	0.00	10.00	15	30	25	P
	Plymouth Sound 100m U/S of Outfall	R12A006	SX 464 532	D	6	6	0.00	3.00	T	6	6	0.00	10.00	15	30	25	P
	Plymouth Sound 100m D/S of Outfall	R12A007	SX 468 533	D	6	5	0.83	3.33	T	6	6	0.00	10.00	15	30	25	P
	Plymouth Sound 250m D/S of Outfall	R12A018	SX 470 532	D	6	6	0.00	3.00	T	6	6	0.00	10.00	15	30	25	P
Millbrook Outfall	Surface of plume from Millbrook Outfall	OUTM920C	SX 434 522	D	3	3	0.00	3.00	T	2	2	0.00	10.00	15	30	25	P
Edinburgh Street Outfall	Surface of plume from Edinburgh Street Outfall	OUTM942C	SX 446 542		ND					ND				15	30	25	P
Torpoint-Trevol Outfall	Surface of plume from Torpoint-Trevol Outfall	WSTW4786C	SX 417 541	D	3	3	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P

TABLE 7 : LIST II - METALS IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

All units are $\mu g/l$

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	NICKEL					ARSENIC					ENVIRONMENTAL QUALITY STANDARD (2)			BASS OR FAIL
				DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	Cr	Ni	As	
Marlborough Street Outfall	Surface of plume from Marlborough Street Outfall	OUT4952C	SX 447 550		ND					ND				15	30	25	P
Albert Road Outfall	Surface of plume from Albert Road Outfall	OUT4922C	SX 446 554	D	3	2	1.76	3.76	T	3	3	0.00	10.00	15	30	25	P
ST Levan Road Outfall	Surface of plume from ST Levan Rd Outfall	OUT4972C	SX 445 559		ND					ND				15	30	25	P
Devonport Dockyard No 5	Surface of plume from Devonport Dockyard No 5 Outfall	OUT4937C	SX 440 562		ND					ND				15	30	25	P
Devonport Dockyard No 2	Surface of plume from Devonport Dockyard No 2 Outfall	OUT4939C	SX 448 570		ND					ND				15	30	25	P
Plymouth (Camel's Head) S.T.W.	Surface of plume from Camel's Head S.T.W.	WSTW4722C	SX 453 572		ND					ND				15	30	25	P
Plymouth (Ernesettle) S.T.W.	Surface of plume from Ernesettle S.T.W.	WSTW4724C	SX 439 605	D	3	2	1.54	3.54	T	3	3	0.00	10.00	15	30	25	P
	Tamar Estuary 100m U/S of S.T.W.	R12A008	SX 441 607	D	3	2	1.85	3.85	T	3	3	0.00	10.00	15	30	25	P
	Tamar Estuary 100m D/S of S.T.W.	R12A017	SX 439 603	D	2	2	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
	Tamar Estuary 250m D/S of S.T.W.	R12A016	SX 438 600	D	3	3	0.00	3.00	T	2	2	0.00	10.00	15	30	25	P
Saltash (Coombe) S.T.W.	Surface of plume from Saltash (Coombe) S.T.W.	WSTW4763C	SX 431 582	D	3	3	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
	Tamar Estuary 100m U/S of S.T.W.	R12A010	SX 432 584	D	3	3	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
	Tamar Estuary 100m D/S of S.T.W.	R12A015	SX 430 581	D	3	3	0.00	3.00	T	2	2	0.00	10.00	15	30	25	P
	Tamar Estuary 250m D/S of S.T.W.	R12A011	SX 430 578	D	3	2	1.44	3.44	T	3	3	0.00	10.00	15	30	25	P
Par S.T.W.	Sea at surface of plume from Par S.T.W.	OUT2058C	SX 073 523	D	2	1	2.44	3.94	T	4	4	0.00	10.00	15	30	25	P
	ST Austell Bay - 100m from Surface Boil	OUT2058A	SX 073 522	D	2	2	0.00	3.00	T	4	4	0.00	10.00	15	30	25	P
	ST Austell Bay - 250m from Surface Boil	OUT2058B	SX 073 522	D	2	2	0.00	3.00	T	4	4	0.00	10.00	15	30	25	P

TABLE 7 : LIST II - METALS IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

All units are µg/l

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	NICKEL					ARSENIC					ENVIRONMENTAL QUALITY STANDARD (2)			PASS OR FAIL
				DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	Cr	Ni	As	
Charlestown outfall	Sea at surface of plume from Charlestown outfall	OUT2016C	SX 039 512	D	2	1	2.95	4.45	T	3	3	0.00	10.00	15	30	25	P
Wheal Jane Mine Outfall (Lighterage Quay)	Surface of plume from Wheal Jane Mine Outfall	F19B/P/403C	SW 833 433		ND					ND				15	30	25	P
Truro (Newham) S.T.W.	Surface of plume from Truro (Newham) S.T.W.	WSTW0240C	SW 834 433	D	3	3	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
	Truro River 100m U/S of S.T.W.	WSTW0240D	SW 833 435	D	3	3	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
	Truro River 100m D/S of S.T.W.	WSTW0240E	SW 835 433	D	3	3	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
	Truro River 250m D/S of S.T.W.	WSTW0240F	SW 837 432	D	3	3	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
Falmouth (Middle Point) Outfall	Surface of plume from Middle Point Outfall	OUT0420C	SW 827 320	D	2	2	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
	Carrick Roads - 100m from Surface Boil	OUT0420A	SW 826 321	D	3	3	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
	Carrick Roads - 250m from Surface Boil	OUT0420B	SW 826 322	D	3	3	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
Falmouth (Pennance Point) Outfall	Sea at surface of plume from Pennance Point Outfall	OUT0421C	SW 805 305	D	2	2	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
	Sea - 100m from Surface Boil	OUT0421B	SW 806 304	D	3	3	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
	Sea - 250m from Surface Boil	OUT0421D	SW 808 303	D	3	3	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
Mullion Outfall	Sea at surface of plume from Mullion Outfall	OUT0538C	SW 664 190	D	3	3	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
Penzance (Wherrytown) Outfall	Sea at surface of plume from Wherrytown Outfall	OUT0558C	SW 469 292	D	5	5	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
Geevor Tin Mine Outfall	Sea at Surface of plume from Geevor Tin Mine Outfall	OUT0514C	SW 371 350		ND					ND				15	30	25	P
	Sea - 100m from Surface Boil	OUT0514D	SW 370 351		ND					ND				15	30	25	P
	Sea - 250m from Surface Boil	OUT0514B	SW 372 352		ND					ND				15	30	25	P

TABLE 7 : LIST II - METALS IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

All units are $\mu g/l$

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	NICKEL					ARSENIC					ENVIRONMENTAL QUALITY STANDARD (2)			PASS OR FAIL
				DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	Cr	Ni	As	
Hayle S.T.W.	Surface of plume from Hayle S.T.W.	WSTW0084C	SW 546 365	D	3	0	5.94	5.94	T	3	1	6.67	10.00	15	30	25	P
	Hayle Estuary 100m U/S of S.T.W.	WSTW0084A	SW 548 364	D	3	0	22.73	22.73	T	3	0	16.67	16.67	15	30	25	P
	Hayle Estuary 100m D/S of S.T.W.	WSTW0084D	SW 548 366	D	3	0	12.11	12.11	T	3	0	23.33	23.33	15	30	25	P
	Hayle Estuary 250m D/S of S.T.W.	WSTW0084E	SW 548 367	D	3	0	13.67	13.67	T	3	0	26.67	26.67	15	30	25	F
Camborne (North Cliffs) outfall	Sea at surface of plume from Camborne (North Cliffs) Outfall	OUT0508C	SW 622 433	D	3	3	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
Redruth (Portreath) outfall	Sea at surface of plume from Redruth (Portreath) Outfall	OUT0579C	SW 661 462	D	3	2	1.27	3.27	T	3	3	0.00	10.00	15	30	25	P
Newquay (Towan Head) Outfall	Sea at surface of plume from Newquay (Towan Head) Outfall	OUT2046C	SW 801 630	D	3	3	0.00	3.00	T	5	5	0.00	10.00	15	30	25	P
Bude (Compass Point) Outfall	Sea at surface of plume from Bude (Compass Point) Outfall	OUT3510C	SS 197 063	D	4	4	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
	Sea - 100m from Surface Boil	OUT3510B	SS 196 063	D	2	2	0.00	3.00	T	3	3	0.00	10.00	15	30	25	P
	Sea - 250m from Surface Boil	OUT3510D	SS 195 064	D	3	2	1.59	3.59	T	3	3	0.00	10.00	15	30	25	P
Bideford(East-the-Water) outfall	Surface of plume from Bideford (East-the-Water) Outfall	OUT3422C	SS 455 266	D	1	0	5.00	5.00	T	1	1	0.00	10.00	15	30	25	P
	Torridge Estuary 100m U/S of Outfall	E29C7	SS 456 266	D	1	1	0.00	3.00	T	1	1	0.00	10.00	15	30	25	P
	Torridge Estuary 100m D/S of Outfall	E29A10	SS 455 267	D	1	0	6.28	6.28	T	1	1	0.00	10.00	15	30	25	P
	Torridge Estuary 250m D/S of Outfall	E29C0	SS 457 273	D	1	1	0.00	3.00	T	1	1	0.00	10.00	15	30	25	P
Braunton (Velator) S.T.W.	Surface of plume from Braunton (Velator) S.T.W.	WSTW3038C	SS 485 355	D	3	2	1.71	3.71	T	2	2	0.00	10.00	15	30	25	P
	River Caen 100m U/S of S.T.W.	E30B3	SS 485 357	D	3	3	0.00	3.00	T	2	2	0.00	10.00	15	30	25	P
	River Caen 100m D/S of S.T.W.	E30A13	SS 485 354	D	3	3	0.00	3.00	T	2	2	0.00	10.00	15	30	25	P
	River Caen 250m D/S of S.T.W.	E30A12	SS 482 352	D	3	3	0.00	3.00	T	2	2	0.00	10.00	15	30	25	P

TABLE 7 : LIST II - METALS IN TIDAL WATERS

EC DANGEROUS SUBSTANCES DIRECTIVE : 1990 ENVIRONMENTAL MONITORING RESULTS

All units are µg/l

DISCHARGE	DESCRIPTION OF MONITORING POINT	USER REFERENCE NUMBER	NATIONAL GRID REFERENCE	NICKEL					ARSENIC					ENVIRONMENTAL QUALITY STANDARD (2)			PASS OR FAIL
				DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	DISS OR TOT	NO.	NO.<	LOW MEAN	HIGH MEAN	Cr	Ni	As	
Kendall U.K. Outfall (Veratec ltd)	Surface of plume from Kendall U.K. Outfall	P30A/P/25C	SS 485 353		ND					ND				15	30	25	P
Barnstaple (Ashford) S.T.W.	Surface of plume from Barnstaple (Ashford) S.T.W.	WSTW3013C	SS 530 342	D	3	3	0.00	3.00	T	3	3	0.00	8.33	15	30	25	P
	Taw Estuary 100m U/S of S.T.W.	E30A7	SS 531 339	D	3	3	0.00	3.00	T	2	2	0.00	10.00	15	30	25	P
	Taw Estuary 100m D/S of S.T.W.	E30A11	SS 531 342	D	3	1	2.49	3.49	T	2	2	0.00	10.00	15	30	25	P
	Taw Estuary 250m D/S of S.T.W.	E30A10	SS 529 343	D	5	5	0.00	3.00	T	4	4	0.00	8.75	15	30	25	P
Croyde/Georgeham Outfall	See at surface of plume from Croyde/Georgeham Outfall	OUT3514C	SS 421 403	D	2	2	0.00	3.00	T	2	2	0.00	7.50	15	30	25	P
Ilfracombe (Cheyne) Outfall	See at surface of plume from Ilfracombe (Cheyne) Outfall	OUT3530C	SS 522 481	D	1	1	0.00	3.00	T	1	1	0.00	5.00	15	30	25	P

NOTES : (1) ND = No Data for 1990
(2) No Chromium Data for 1990