

# BATHING WATER QUALITY IN ENGLAND AND WALES - 1994



**Report of the  
National Rivers Authority**

**April 1995**



*National Rivers Authority*

WATER QUALITY SERIES No.22

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First Edition 1995

ISBN No. 011 8858432

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Designed and produced by  
Stotts, 14 Frederick Place, Clifton, Bristol BS8 1AS

Printed and bound by  
Pheon Press, Bristol



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# **BATHING WATER QUALITY IN ENGLAND AND WALES IN 1994**

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**LONDON: HMSO**



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## CONTENTS

### Page

|                                                                                                                |           |
|----------------------------------------------------------------------------------------------------------------|-----------|
| <b>EXECUTIVE SUMMARY</b>                                                                                       | <b>1</b>  |
| <b>1 INTRODUCTION</b>                                                                                          | <b>3</b>  |
| 1.1 The Role of the NRA                                                                                        | 3         |
| 1.2 Developments Since 1993                                                                                    | 3         |
| <b>2 THE 1994 EC IDENTIFIED BATHING WATER QUALITY SURVEY</b>                                                   | <b>4</b>  |
| 2.1 Sampling and Analysis                                                                                      | 4         |
| 2.2 Survey Results: Compliance with Directive                                                                  | 4         |
| 2.3 NRA Region by Region Analysis 1994                                                                         | 6         |
| <b>3 TRENDS AND VARIATIONS IN BATHING WATER SURVEY RESULTS</b>                                                 | <b>14</b> |
| 3.1 Trends in Compliance 1987 to 1994                                                                          | 14        |
| 3.2 Variation in Compliance                                                                                    | 14        |
| 3.3 Assessment of Bathing Water Quality Using Median Coliform Values                                           | 16        |
| <b>4 BLUE FLAG AND SEASIDE AWARD SCHEMES AND STANDARDS</b>                                                     | <b>17</b> |
| 4.1 The European Blue Flag Scheme                                                                              | 17        |
| 4.2 The Tidy Britain Group Seaside Award Scheme                                                                | 17        |
| 4.3 Comparison of Identified Bathing Waters with Blue Flag and Premier Seaside Award Microbiological Standards | 18        |
| 4.4 Comparison of Identified Bathing Waters with Directive Faecal Streptococci Standard                        | 19        |
| <b>5 OTHER ISSUES RELATING TO BATHING WATER QUALITY</b>                                                        | <b>21</b> |
| 5.1 Implementation of the Directive in EC Member States                                                        | 21        |
| 5.2 Revision of the Directive                                                                                  | 22        |

|          |                   |           |
|----------|-------------------|-----------|
| <b>6</b> | <b>REFERENCES</b> | <b>24</b> |
| <b>7</b> | <b>APPENDICES</b> | <b>25</b> |

## **EXECUTIVE SUMMARY**

This is the fifth annual report on Bathing Water Quality published by the NRA, presenting the results of the 1994 bathing water survey.

The number of bathing waters identified in England and Wales for the purposes of the Bathing Water Directive remained at 419 for the 1994 season. Lyme Regis (Church) Beach was, however, still closed due to engineering work and was therefore not monitored or included in compliance assessment. The 1994 data, as assessed by DoE in accordance with the Directive show an increase in compliance (82.5%) with the mandatory coliform standards compared with 1993 (79.4%). There were an additional 13 compliant bathing waters. The NRA expects a continued increase in compliance until the majority of capital schemes in the Water Service Companies improvement programme have been completed.

Trend data show that the percentage of bathing waters complying consistently over a three year period with the mandatory coliform standards has increased slightly to 65% and the number consistently failing has dropped to 5%. Analysis of median faecal coliform values also suggests that general water quality has improved after being relatively stable in the previous three seasons.

Details of the European Blue Flag and Tidy Britain Group Award schemes for high quality bathing beaches are given in this report, together with an analysis of bathing waters meeting the water quality requirements of those award schemes during the 1994 season.



## **1. INTRODUCTION**

### **1.1 The Role of the NRA**

The National Rivers Authority (NRA) is the competent authority in England and Wales to implement the EC Bathing Water Directive (76/160/EEC). Under the Direction and Notices given in May 1992 by the Secretary of State, the NRA is required to sample and analyse bathing waters in accordance with the requirements of the Directive and report the results annually to the Department of the Environment (DoE) and Welsh Office. The DoE uses these data to assess compliance of individual sites and transmits the results annually to the European Commission.

The NRA also has statutory duties and powers under the Water Resources Act 1991 to control discharges to controlled waters and thereby achieve relevant water quality objectives. For bathing waters, water quality objectives were set out in the Bathing Water (Classification) Regulations 1991 (SI 1597), which came into force in August 1991 (DoE, 1991).

This is the fifth NRA Report on Bathing Water Quality in England and Wales, giving the results of the 1994 bathing season and an update on information contained in the 1990 (NRA, 1991), 1991 (NRA, 1992a), 1992 (NRA, 1993) and 1993 (NRA, 1994) Reports.

### **1.2 Developments Since 1993**

In 1993 there were 419 bathing waters identified in England and Wales for the purposes of the Directive. No additional bathing waters were identified for the 1994 bathing season.



## **2. THE 1994 EC IDENTIFIED BATHING WATER QUALITY SURVEY**

### **2.1 Sampling and Analysis**

The bathing season in England and Wales runs from 15 May to 30 September and sampling commences two weeks before the start of the season. NRA policy is that 20 samples are taken at regular intervals throughout the season at each site. All samples are taken at predetermined points off the beach of the identified bathing water where the daily average density of bathers is at its highest. Samples are taken 30 cm below the surface, except in the case of samples used for testing for mineral oils, which are taken at the water's surface.

The results of the analyses of samples taken in the 1994 bathing season are given in the 1994 DoE Report to Parliament (Appendix A). Twenty samples were taken for coliform analysis at each bathing water and, wherever possible, two samples were analysed for salmonellae, and a minimum of two samples analysed for enteroviruses at any bathing water which had failed the mandatory coliform standards during the 1993 season. All coliform counts were confirmed using the methods set out in the NRA "Manual of Standard Methods for Microbiological Analysis" (NRA 1992b). Twenty samples from all identified bathing waters were also analysed for faecal streptococci for Blue Flag and Seaside Award scheme purposes (see section 4).

### **2.2 Survey Results: Compliance with Directive**

The mandatory coliform standards given in the Directive and used by the DoE to assess compliance require there to be no more than 10,000 total coliforms per 100 ml and no more than 2,000 faecal coliforms per 100 ml. In order for a bathing water to comply with the Directive, 95% of samples taken must meet these standards.

During the 1994 bathing season, 418 identified bathing waters were examined in England and Wales. Lyme Regis (Church) Beach was closed throughout the bathing season due to engineering work and was therefore not sampled or included in compliance assessment. Mounts Bay Heliport was also closed during parts of the bathing season, but this bathing water was included in compliance assessment.

The number of bathing waters complying with the Directive, as determined by the DoE on the basis of the coliform parameters, was 345; that is to say, 82.5%. This is an increase of 3.1% compared with the results of the 1993 survey.

Table 1 gives details of the numbers and percentages of bathing waters complying with the Directive in 1994 by NRA Region. The changes in the number of bathing waters complying between 1993 and 1994 are also given.

The Water Service Companies are continuing with their investment programme aimed at improving bathing water quality to the schedule agreed with the DoE. A report detailing the progress of these schemes was compiled by the Department for the European Commission in September 1994. The report shows that 30 capital schemes were completed by June 1994 and these will have affected water quality at 53 bathing waters in England and Wales. It is expected that the completion of the remaining schemes will contribute significantly to better water quality at bathing beaches in future seasons.

An update (compiled using the DoE's September 1994 report) on the information on remedial schemes contained in the 1990 and 1992 NRA reports is presented as Appendix B.

TABLE 1 - 1994 EC IDENTIFIED BATHING WATERS - COLIFORM RESULTS

| NRA Region              | Number of Bathing Waters | Complying  |             | Non-Complying |             | Number of compliant bathing waters compared with 1993 |
|-------------------------|--------------------------|------------|-------------|---------------|-------------|-------------------------------------------------------|
|                         |                          | Number     | %           | Number        | %           |                                                       |
| Anglian                 | 33                       | 27         | 81.8        | 6             | 18.2        | -1                                                    |
| Northumbria & Yorkshire | 56                       | 49         | 87.5        | 7             | 12.5        | +3                                                    |
| North West              | 33                       | 24         | 72.7        | 9             | 27.3        | +11                                                   |
| Southern                | 67                       | 53         | 79.1        | 14            | 20.9        | -5                                                    |
| South Western *         | 175                      | 151        | 86.3        | 24            | 13.7        | +9                                                    |
| Thames                  | 3                        | 2          | 66.7        | 1             | 33.3        | -1                                                    |
| Welsh                   | 51                       | 39         | 76.5        | 12            | 23.5        | -3                                                    |
| <b>TOTAL *</b>          | <b>418</b>               | <b>345</b> | <b>82.5</b> | <b>73</b>     | <b>17.5</b> | <b>+13</b>                                            |

\* excludes Lyme Regis (Church) Beach

### 2.2.1 Abnormal weather waiver

Article 5.2 of the Directive states that “deviations from the values referred to in Article 3 shall not be taken into consideration in the calculation of the percentage referred to in paragraph 1 when they are the result of floods, other natural disasters or abnormal weather conditions”. This is transcribed in paragraph 2 of Schedule 1 of the Bathing Waters (Classification) Regulations 1991 which states “for the purposes of paragraph 1 above samples shall be disregarded if they deviate from the parametric values specified in Schedule 3 as a result of abnormal weather conditions, floods or other natural disasters.”

There is no official definition of what constitutes abnormal weather, but DoE have advised that generally a “1 in 5 year storm event” can be regarded as exceptional weather. That is a storm which is statistically likely to occur only once in every five years. The amount of rainfall which equates to a 1 in 5 year event depends on the prevailing weather in a specific location.

NRA Regions were advised that if it was believed that such an event had occurred and had affected the quality of a bathing water, an application for a waiver should be made for that sample, as allowed in the Directive. However no abnormal weather events were considered to have taken place during the 1994 bathing season.

## 2.3 NRA Region by Region Analysis 1994

Maps are included for each NRA Region showing their identified bathing waters, and whether they complied ( ② ), or did not comply ( ① ), with the relevant parameters of the Directive for the 1994 bathing season.

### Anglian Region

Of the 33 bathing waters in this Region, 27 complied with the Directive's mandatory coliform standards. This is one fewer compliant bathing water than 1993, giving a percentage compliance of 81.8%. Figure 1 indicates the compliance of individual bathing waters within the Region in 1994.

All six non-compliant bathing waters have remedial capital schemes in progress by Anglian Water Ltd to be completed by 1996 or 1997.

FIGURE 1 - NRA ANGLIAN REGION AND THAMES REGION



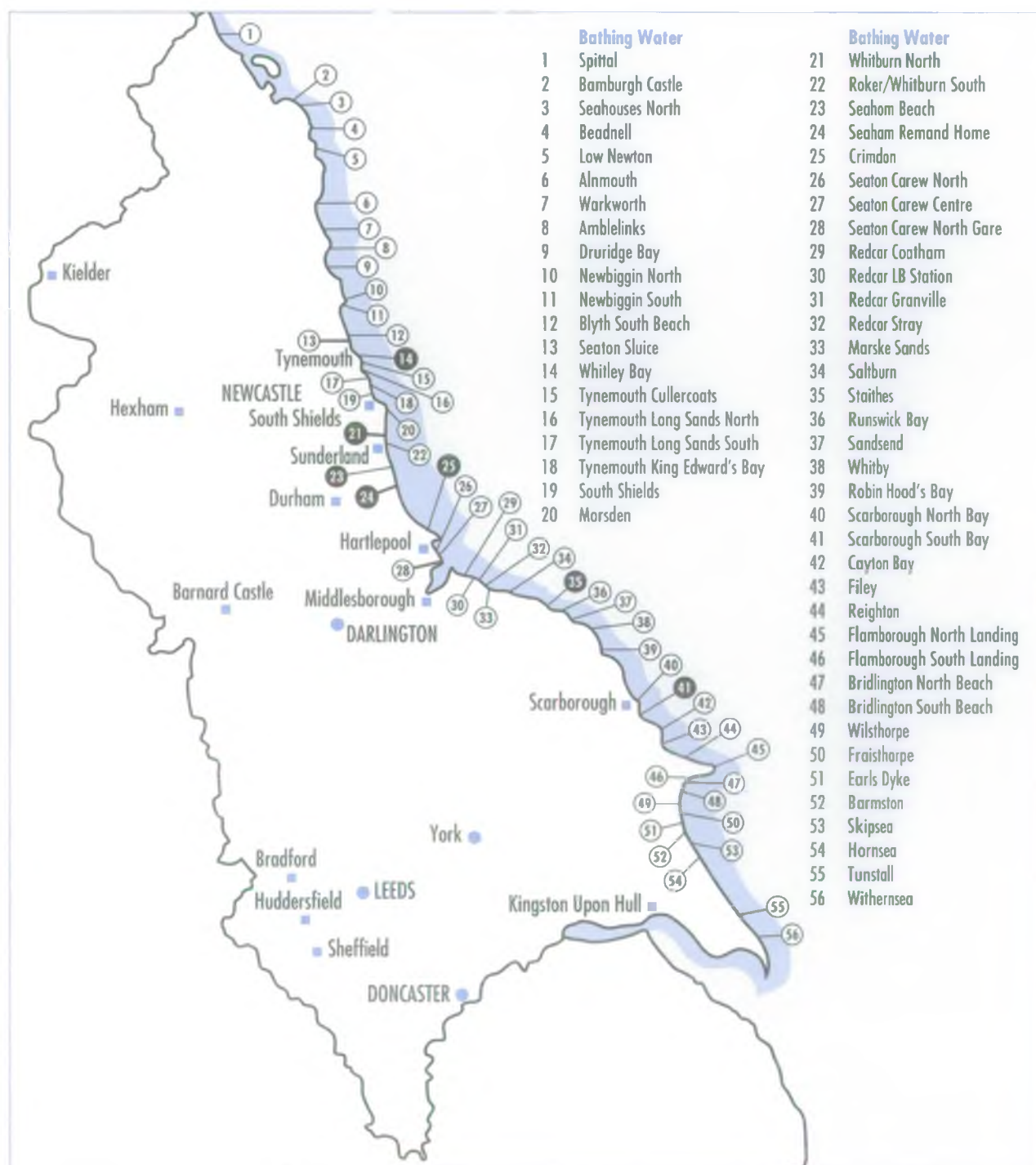


## Northumbria & Yorkshire Region

The merged Northumbria & Yorkshire Region had 56 bathing waters for the 1994 season. Of these, 49 (87.5%) complied with the Directive's mandatory coliform standards. This is three more compliant waters than NRA Northumbria & Yorkshire Region in 1993. Figure 2 shows the individual state of compliance for the identified bathing waters in the Region in 1994.

It is expected that the remedial capital schemes in hand by Northumbrian Water Ltd and Yorkshire Water Services will be completed during 1995 and 1996. Where failures have occurred at previously compliant bathing waters in the Region, detailed studies are being undertaken by the NRA in conjunction with the relevant Water Service Company to identify reasons for exceedences and to ensure appropriate remedial action is taken.

FIGURE 2 - NRA NORTHUMBRIA & YORKSHIRE REGION

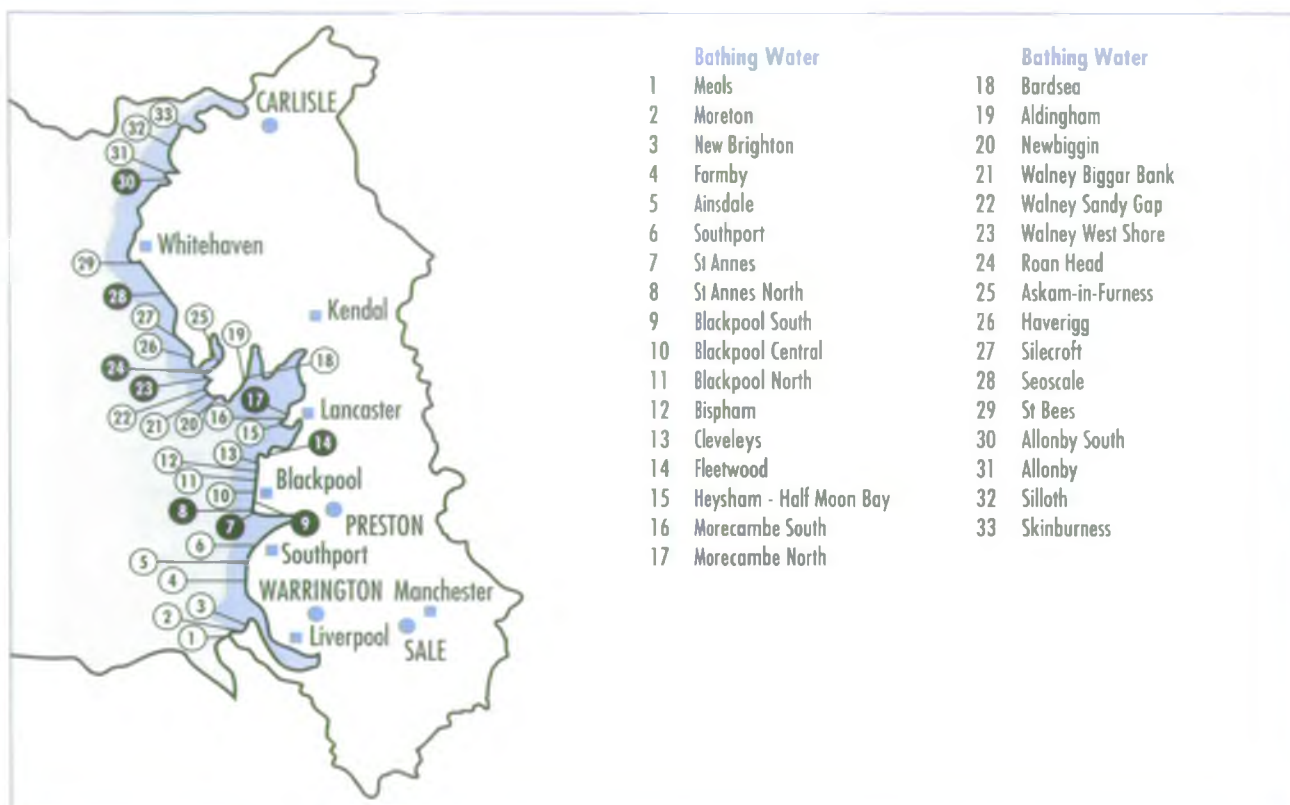


## North West Region

Of the 33 identified bathing waters in the region, 24 (72.7%) met the coliform requirements of the Directive - eleven more compliant bathing waters than in 1993. Compliance for individual bathing waters in the Region for 1994 is illustrated in Figure 3.

The large capital investment programme being undertaken by North West Water Ltd is continuing. The majority of remedial works are due to be completed before the 1996 bathing season. The remainder are due for completion by 1997.

FIGURE 3 - NRA NORTH WEST REGION



## Severn-Trent Region

Severn-Trent Region has no waters identified by the DoE as subject to the Bathing Water Directive.

FIGURE 4 - NRA SOUTHERN REGION



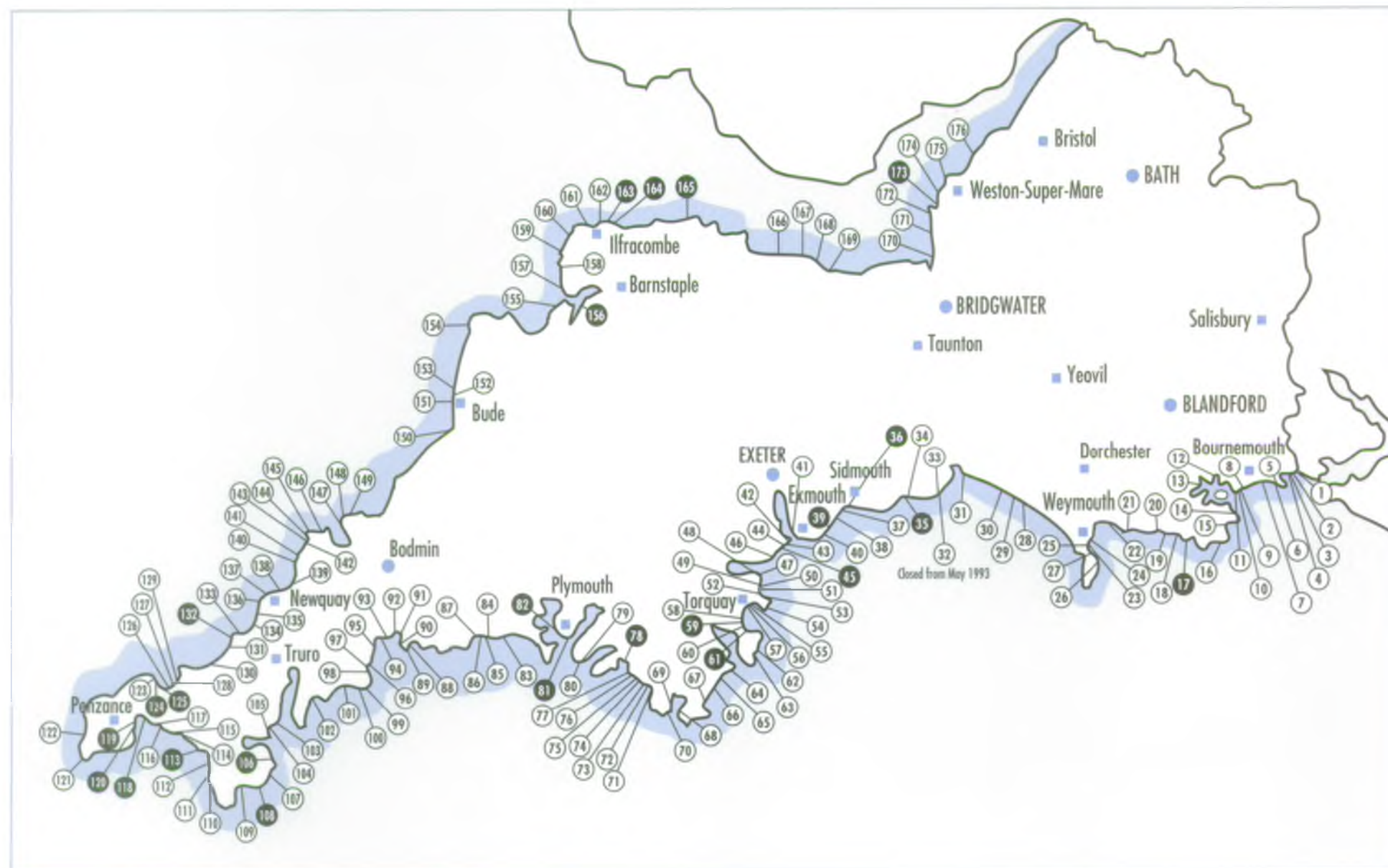
Southern Region

There are 67 identified bathing waters in Southern Region; 53 (79.1%) complied with the mandatory coliform standards of the Directive, five fewer than in 1993. Figure 4 shows the compliance of individual bathing waters in Southern Region for the 1994 bathing season.

Southern Water Services Ltd has a large number of schemes planned or in progress to ensure improvements to bathing water quality. Some of these are due for completion before the 1995 bathing season and all except Ventnor and Folkestone are due for completion by the end of 1996. Southern Region are continuing to investigate causes of exceedences where schemes have already been completed.



FIGURE 5 - NRA SOUTH WESTERN REGION





| Bathing Water |                             | Bathing Water |                         | Bathing Water |                        | Bathing Water |                        |
|---------------|-----------------------------|---------------|-------------------------|---------------|------------------------|---------------|------------------------|
| 1             | Christchurch                | 21            | Ringstead Bay           | 49            | Maidencombe            | 77            | Challaborough          |
|               | Highcliffe Castle           | 22            | Bowleaze Cove           | 50            | Watcombe               | 78            | Mothecombe             |
| 2             | Christchurch                | 23            | Church Ope Cove         | 51            | Oddicombe              | 79            | Wembury                |
|               | Friar's Cliff               | 24            | Weymouth Lodmoor        | 52            | Babbacombe             | 80            | Bovisand               |
| 3             | Christchurch                | 25            | Weymouth Central        | 53            | Redgate                | 81            | Plymouth Hoe East      |
|               | Avon Beach                  | 26            | Portland Harbour        | 54            | Meadfoot               | 82            | Plymouth Hoe West      |
| 4             | Christchurch Mudeford       |               | Sandsfoot Castle        | 55            | Beacon Cove            | 83            | Portwrinkle            |
|               | Sandbank East               | 27            | Portland Harbour        | 56            | Torre Abbey            | 84            | Downderry              |
| 5             | Bournemouth                 |               | Castle Cove             | 57            | Hollicombe             | 85            | Seaton (Cornwall)      |
|               | Hengistbury East            | 28            | West Bay (West)         | 58            | Paignton               | 86            | Millendreath           |
| 6             | Bournemouth                 | 29            | Eypemouth               |               | Preston Sands          | 87            | East Looe              |
|               | Fisherman's Walk            | 30            | Seatown                 | 59            | Paignton Sands         | 88            | Readymoney             |
| 7             | Bournemouth                 | 31            | Charmouth West          | 60            | Goodrington            | 89            | Palkerris              |
|               | Boscombe Pier               | 32            | Lyme Regis Church Beach | 61            | Broadsands             | 90            | Par                    |
| 8             | Bournemouth Pier            | 33            | Lyme Regis Cobb         | 62            | Shoakstone             | 91            | Crinnis Golf Links     |
| 9             | Bournemouth                 | 34            | Seaton (Devon)          | 63            | St Mary's Bay          | 92            | Crinnis Leisure Centre |
|               | Durley Chine                | 35            | Beer                    | 64            | Dartmouth Castle       | 93            | Charlestown            |
| 10            | Poole Shore                 | 36            | Sidmouth Town           |               | and Sugary Cove        | 94            | Duporth                |
|               | Rd Sandbanks                | 37            | Sidmouth Jacob's Ladder | 65            | Blackpool Sands        | 95            | Porthpean              |
| 11            | Poole Harbour Sandbanks     | 38            | Ladram Bay              | 66            | Slapton Sands Monument | 96            | Pentewan               |
| 12            | Poole Harbour Lake          | 39            | Budleigh Salterton      | 67            | Slapton Sands Torcross | 97            | Polstreath             |
| 13            | Poole Harbour Rockley Sands | 40            | Sandy Bay               | 68            | Mill Bay               | 98            | Port Mellon            |
|               |                             | 41            | Exmouth                 | 69            | Salcombe North Sands   | 99            | Gorran Haven           |
| 14            | Shell Bay North             | 42            | Dawlish Warren          | 70            | Salcombe South Sands   |               | Little Perhaver        |
| 15            | Studland Knoll House        | 43            | Dawlish Town            | 71            | Hope Cove              | 100           | Gorran Haven (Vault)   |
| 16            | Swanage Central             | 44            | Dawlish Coryton Cove    | 72            | Thurlestone South      | 101           | Porthluney             |
| 17            | Kimmeridge Bay              | 45            | Teignmouth Holcombe     | 73            | Thurlestone North      | 102           | Pendower               |
| 18            | Lulworth Cove               | 46            | Teignmouth Town         | 74            | Bantham                | 103           | Gyllynqvase            |
| 19            | Durdle Door East            | 47            | Shaldon                 | 75            | Bigbury-on-Sea South   | 104           | Swanpool               |
| 20            | Durdle Door West            | 48            | Ness Cove               | 76            | Bigbury-on-Sea North   | 105           | Maen Porth             |

**Bathing Water**

- 106 Porthallow
- 107 Porthoustock
- 108 Coverack
- 109 Kennack Sands
- 110 Pollurian Cove
- 111 Poldhu Cove
- 112 Gunwalloe Cove
- 113 Porthleven West
- 114 Praa Sands East
- 115 Praa Sands West
- 116 Perran Sands
- 117 Mounts Bay  
Little Holgus
- 118 Mounts Bay Heliport
- 119 Mounts Bay Penzance
- 120 Mounts Bay  
Wherry Town
- 121 Porthcurno
- 122 Sennen
- 123 Porthmear
- 124 Porth Gwidden
- 125 Porthminster
- 126 Carbis Bay  
Station Beach
- 127 Carbis Beach Porth  
Kidney Sands
- 128 The Towans (Hayle)
- 129 The Towans (Godrevy)
- 130 Portreath
- 131 Porthtowan

**Bathing Water**

- 132 Trevaunance Cove
- 133 Perranporth  
Village End
- 134 Perranporth  
Penhale Sands
- 135 Holywell Bay
- 136 Crantock
- 137 Fistral
- 138 Towan
- 139 Watergate
- 140 Mawgan Porth
- 141 Porthcothan
- 142 Treyarnon Bay
- 143 Constantine Bay
- 144 Mother Ivey's Bay
- 145 Hartlyn Bay
- 146 Trevone Bay
- 147 Rock
- 148 Daymer Bay
- 149 Polzeath
- 150 Widemouth Sand
- 151 Bude Summerleaze
- 152 Bude Crooklets
- 153 Bude Sandy Mouth
- 154 Hartland Quay
- 155 Westward Ho!
- 156 Instow
- 157 Saunton Sands
- 158 Croyde Bay
- 159 Woolacombe Putsborough

**Bathing Water**

- 160 Woolacombe Village
- 161 Ilfracombe  
Tunnels Beach
- 162 Ilfracombe Capstone
- 163 Ilfracombe Mele
- 164 Combe Martin
- 165 Lynmouth
- 166 Porlock Weir
- 167 Minehead Terminus
- 168 Dunster North West
- 169 Blue Anchor West
- 170 Burnham Jetty
- 171 Berrow North  
of Unity Farm
- 172 Brean
- 173 Weston-super-Mare Uphill  
Slipway
- 174 Weston-super-Mare Main
- 175 Weston-super-Mare  
Sand Bay
- 176 Clevedon Beach

## **South Western Region**

South Western Region has over two fifths of the identified bathing waters in England and Wales, the total being 176. As Lyme Regis (Church) Beach was closed throughout the bathing season due to engineering work, the number of monitored bathing waters for the 1994 season was 175. Of these, 151 (86.3%) complied with the mandatory coliform standards, nine more compliant bathing waters than in 1993. The individual compliance results for NRA South Western bathing waters in 1994 are shown in Figure 5.

Most of the non-compliant bathing waters in this Region are being addressed by remedial schemes which, once completed, will improve local bathing water quality. A number of these schemes are due for completion before the 1996 bathing season. A few schemes however have longer timescales, including Plymouth and Instow. The Plymouth scheme is due for completion in 1998 and the Instow scheme in 1997.

In the few cases where previously compliant bathing waters have failed and no scheme is planned, the NRA is planning detailed investigations to identify possible sources of faecal pollution. In South Western Region streams running across bathing beaches are often sources of bacterial loading. Wherever possible, remedial action will be taken to ensure future compliance.

## **Thames Region**

Thames Region has only three identified bathing waters, two of which met the mandatory coliform standards of the Directive. Thames bathing waters are shown in Figure 1 (along with those of Anglian Region).

The Anglian Water Services capital scheme under way at Southend, from which Thorpe Bay will benefit, is due to be fully completed by 1998.

## Welsh Region (Rhanbarth Cymru)

Welsh Region has 51 identified bathing waters (including West Kirby which is on the English coastline). A total of 39 (76.5%) complied with the mandatory coliform standards of the Directive in 1994. This is three fewer compliant waters than in 1993. The compliance and location of the Region's bathing waters is shown in Figure 6.

The Dwr Cymru (Welsh Water) investment programme should ensure that the majority of schemes are completed by the 1996 bathing season. Further improvements - the Lavernock Point (formerly Jacksons Bay) and Swansea Bay schemes will be completed in 1997, and the Saundersfoot scheme in 1998, in accordance with agreements with Welsh Office. These will result in improvements to a range of identified bathing waters in the Barry and Swansea areas and at Saundersfoot. Investigations by the NRA are underway at the few failing waters which have previously been compliant, to assess likely causes of failure and requirements for action.

FIGURE 6 - NRA WELSH REGION



### **3. TRENDS AND VARIATIONS IN BATHING WATER SURVEY RESULTS**

#### **3.1 Trends in Compliance 1987 to 1994**

The percentage compliance for 1994 shows an improvement of 3.1% over 1993. This continues the steady improvement generally experienced since 1987. There is still a tendency for bathing waters to move in and out of compliance from year to year and compliance levels within Regions continue to show a small variation. From a national perspective, however, bathing water quality is improving.

The NRA expects compliance to continue to rise until the majority of remedial schemes are completed. Many of these schemes are due for completion before the end of 1995 and it is expected that this will result in a good increase in compliance for the 1996 bathing season.

#### **3.2 Variation in Compliance**

A significant number of bathing waters are on the borderline between compliance and non-compliance. These bathing waters pass the Directive's standards one year and fail the next (or vice versa). This volatility is caused by a combination of the inherent variability of the data collected over the bathing season and the way in which compliance within the Directive is assessed on a "pass/fail" basis. Changes in compliance can therefore be caused simply for no other reason than the laws of chance. Weather conditions can also play a part in the overall compliance level experienced during a bathing season.

It is interesting, therefore, to examine the consistency of compliance by looking at the number of bathing waters that have failed the Directive in three, two, one or none of the previous three bathing seasons. Figure 7 illustrates this for the period 1992-1994. The percentage of bathing waters failing none of the last three years is 64%, whilst the percentage failing all three years is 5%. However, 30% of bathing waters fail for one or two of the three years; in other words, switch between compliance and non-compliance. It is not possible to determine whether these bathing waters fail as a result of changed water quality or because of the volatility of the assessment methods used in the Directive.

As more remedial schemes are completed in areas where the water quality is close to the standards in the Directive, the number of these 'borderline' bathing waters should decrease and the true picture of the quality of bathing waters will become clearer, subject only to the limitations of the monitoring regime required under the Directive.

Previous Bathing Water Quality reports contain similar pie charts illustrating the consistency of compliance for the periods 1988-1990, 1989-1991, 1990-1992 and 1991-1993. A summary of these assessments together with that for the 1992-1994 period is shown in Table 2. From this, the changes in consistent compliance which have occurred in recent years can clearly be seen.

The percentage of waters consistently failing is continuing to decrease and the percentage consistently passing is increasing further as more remedial schemes are completed. This trend is expected to continue in future years.

FIGURE 7 - COMPARISON OF BATHING WATER FAILURES 1992-1994

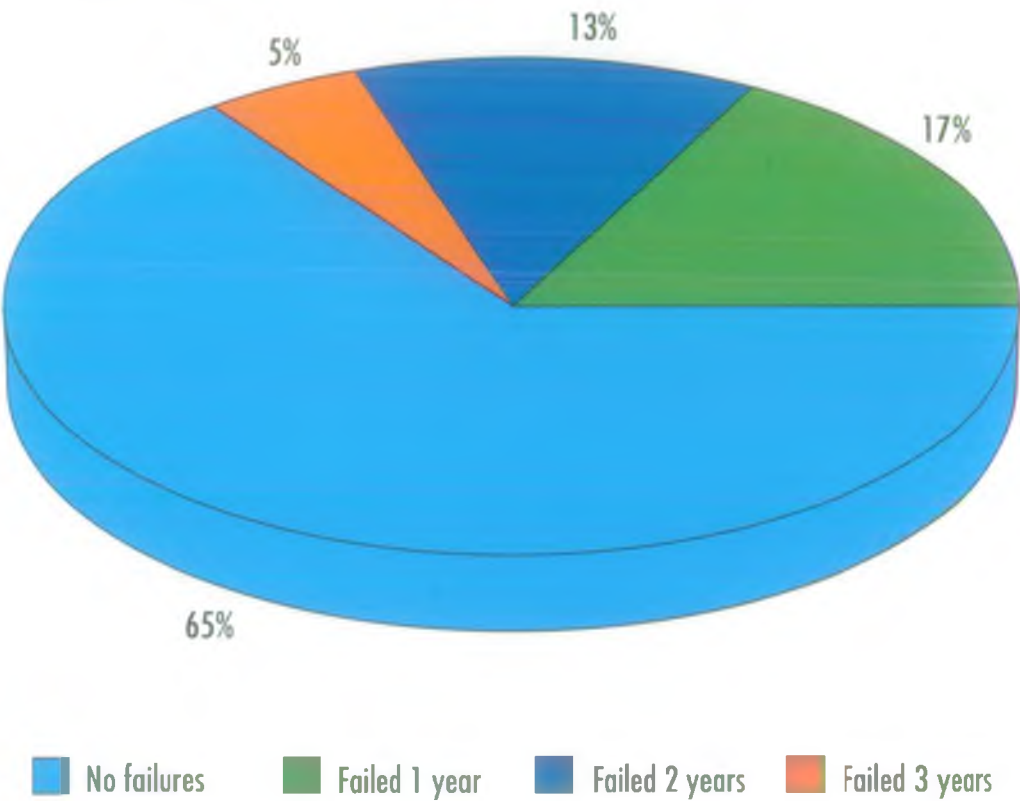


FIGURE 8 - GRAPH DEMONSTRATING REDUCTION IN HIGHEST MEDIAN FAECAL COLIFORM VALUES SINCE 1987

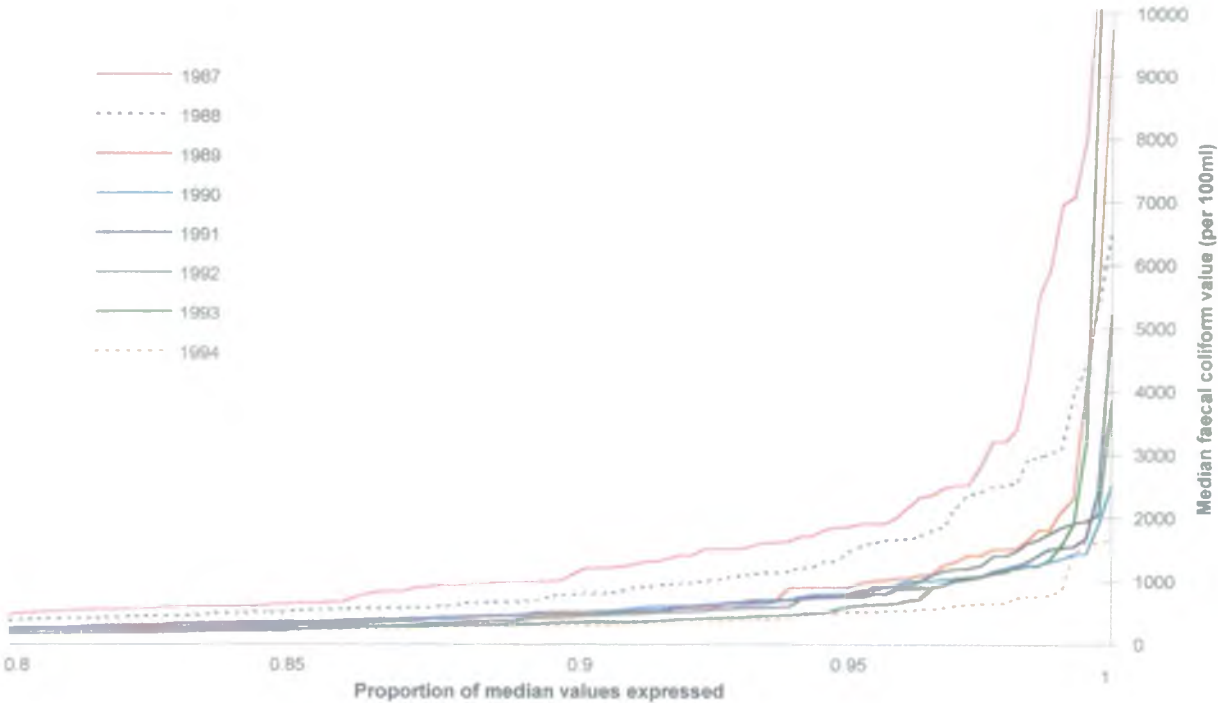




TABLE 2 - CONSISTENCY OF COMPLIANCE OVER THREE YEAR PERIODS

|                    | 1988-1990 |       | 1989-1991 |       | 1990-1992 |       | 1991-1993 |       | 1992-1994 |       |
|--------------------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|
| No failures at all | 57%       |       | 60%       |       | 64%       |       | 63%       |       | 65%       |       |
| Failed 1 year      | 18%       | } 30% | 22%       | } 28% | 16%       | } 24% | 17%       | } 28% | 17%       | } 30% |
| Failed 2 years     | 12%       |       | 6%        |       | 8%        |       | 11%       |       | 13%       |       |
| Failed 3 years     | 13%       |       | 13%       |       | 12%       |       | 9%        |       | 5%        |       |

### 3.3 Assessment of Bathing Water Quality Using Median Coliform Values

The use of ranked median faecal coliform values (one from each bathing water) was first discussed in the 1990 Report. It is one way of overcoming the statistical drawbacks in the Directive's "pass/fail" method of assessing compliance and demonstrates the general bathing water quality in the assessed area.

The three main advantages in using the median faecal coliform value are:

- it offers a stable estimate of trend;
- it is relatively insensitive to changes in sampling rate; and thus
- it is a good way of comparing bathing water quality between countries.

Figure 8 illustrates the trend in median values of faecal coliforms over the past seven years. It shows the ranked median faecal coliform values for the years 1987 to 1994 inclusive. The further to the bottom right of the graph a particular year's plot is, the lower are the highest medians for that year, and therefore the better the bathing water quality.

The graph represents only the highest 20% of median values for each year to illustrate more clearly the difference between years. Adjustments have also been made to take into account the increase in the number of identified bathing waters during the assessed period.

Figure 8 shows that between 1987 and 1990 there was a steady improvement in bathing water quality as revealed by assessment of median faecal coliform values. There has again been a noticeable improvement in 1994, after the relatively stable quality achieved in the years 1991-1993.



## **4. BLUE FLAG AND SEASIDE AWARD SCHEMES AND STANDARDS**

### **4.1 The European Blue Flag Scheme**

The European Blue Flag Scheme is organised by the Federation of Environmental Education in Europe (FEEE). In 1994 it continued to be administered in the UK by Tidy Britain Group (TBG), a registered charity and an independent voluntary body, part-funded by the DoE. European Blue Flags are awarded to high quality EC identified bathing beaches which meet the water quality and land-based requirements of the award scheme. Beaches are only considered for an award if an application (by a relevant local authority or other interested party) is made, and should any criterion of the award scheme no longer be met during the bathing season, then the Blue Flag has to be removed.

Water quality is judged on the results of the analyses of samples taken throughout the previous bathing season (ie the 1995 awards will be based on 1994 water quality). The 1994 awards again required compliance with the G value water quality standards of the Directive for the microbiological parameters total and faecal coliforms and faecal streptococci. The award does not require compliance with Directive standards for salmonella or enterovirus or physio-chemical parameters. Seventeen resorts in the UK (fifteen of them in England and Wales) applied for and were awarded a Blue Flag in 1994.

### **4.2 The Tidy Britain Group Seaside Award Scheme**

The Seaside Award scheme was introduced in 1992 and is also administered by TBG. It is intended to complement the European Blue Flag Awards and aims to recognise beaches which attain high standards of facilities and management (where appropriate), beach cleanliness, and water quality. Again, water quality is judged on the results of the analyses of samples taken throughout the previous bathing season.

The Seaside Award scheme has two categories, Resort and Rural, the former encompassing managed tourist resorts and the latter awarded to smaller beaches which have limited facilities but still offer clean water and whose attraction lies in their undeveloped character.

The Resort Beach award is given to those beaches which attain the water quality standards and comply with 28 land-based criteria (covering aspects such as public information and access, dog control and hygiene, and beach management and safety). The Rural Beach award is given to those beaches which attain water quality standards and fulfil 12 land-based criteria.

Within each category, there are two types of award which reflect different levels of water quality. The "Seaside Award" acknowledges water quality which meets the mandatory standards for the faecal and total coliform parameters of the EC Bathing Water Directive, and also complies with the land-based criteria. The "Premier Seaside Award" acknowledges water quality which meets the mandatory and guideline standards for coliforms and (since 1993) faecal streptococci, and also fulfils the land-based criteria. Neither award requires compliance with the standards in the Directive for salmonella, enterovirus or physico-chemical parameters.

In 1994, 165 beaches in the UK attained Seaside awards as shown in Table 3. In the Resort category, 19 attained the Premier Award, and 38 received the Seaside Award. In the Rural category there were 46 Premier Awards and 62 Seaside Awards.

TABLE 3 - BEACHES ATTAINING 1994 TIDY BRITAIN GROUP SEASIDE AWARDS

| Category | Award   | Beaches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Resort   | Premier | Whitby (West Cliff), Southwold <sup>BF</sup> , Sheerness (Beach Street) <sup>BF</sup> , Birchington (Minnis Bay), Hayling Island West <sup>BF</sup> , Bournemouth (Fisherman's Walk) <sup>BF</sup> , Bournemouth (Durley Chine) <sup>BF</sup> , Poole (Sandbanks) <sup>BF</sup> , Torbay (Oddicombe) <sup>BF</sup> , Torbay (Meadfoot) <sup>BF</sup> , Torbay (Broadsands) <sup>BF</sup> , Crinnis <sup>BF</sup> , Sennen Cove <sup>BF</sup> , Porthmeor <sup>BF</sup> , Woolacombe <sup>BF</sup> , Cefn Sidan Pembrey Country Park <sup>BF</sup> , St Davids (Whitesands) <sup>BF</sup> , Portrush (West Bay Strand) <sup>BF</sup> , Benone <sup>BF</sup>                                                                                                                                                                                                                                                                                                                                                                                                                            |
|          | Seaside | Troon South, Nairn Central, Fraserburgh, St. Andrews (West), Elie, Aberdour (Silver Sands), Tynemouth (Cullercoats), Tynemouth (Longsands South), Scarborough (North Bay), Scarborough (South Bay), Filey, Bridlington (North), Bridlington (South), Hunstanton, Wells-next-the-Sea, Mundesley, Lowestoft (South), Southend-on-Sea (Three Shells), Margate, Broadstairs (Viking Bay), Bexhill, Eastbourne (Pier to Wishtower), Littlehampton, Bognor Regis, Ryde West, Ryde East, Sandown, Shanklin, Christchurch (Friar's Cliff), Weymouth Central, Dawlish Warren, Teignmouth (Main Beach), Torbay (Redgate), Torbay (Corbyn Head), Torbay (Paignton), Torbay (Goodrington South Sands), Tenby North, Aberystwyth (Traeth Y Gogledd)                                                                                                                                                                                                                                                                                                                                                |
| Rural    | Premier | Gullane Bents, Bamburgh, Beadnell Bay, Low Newton, Warkworth, Amble Links, Flamborough (South Landing), Snettisham, Kessingland, Dunwich, Aldeburgh, Sheerness (Minster Leas), Winchelsea, Birling Gap, Hill Head (near Fareham), Lepe Country Park, Vazon Bay Cobo (CI), Port Soif (CI), Pembroke/L'Ancrese (CI), Dawlish (Coryton Cove), Ness Cove Shaldon, Torbay (Maidencombe), Torbay (Elberry Cove), Blackpool Sands, Torcross, Thurlestone (South Milton Sands), Bigbury-on-Sea (Challaborough), St Merryn (Treyarnon), St Merryn (Constantine Bay), Polzeath, Bude (Widemouth Sand), Bude (Sandymouth), Oxwich Bay, Lydstep Bay, Skrinkle, Manorbier, Freshwater East, Barafundle, Broadhaven (South), Marloes Milford Haven, Newgale, Abereddy, St Dogmaels (Poppit), Mwnt, Dinas Dinlle (near Caernarfon), Rhosneigr (Traeth Crigyll)                                                                                                                                                                                                                                       |
|          | Seaside | Sandend, Inverboyndie, Cruden Bay, Balmedie, Kingsbarns, Runswick Bay, Sandsend, Robin Hood's Bay, Shoeburyness (East), Southend (Leigh Bell Wharf), Dymchurch, Romney Sands, Camber, Pevensy Bay, West Wittering, Cowes, East Cowes, Springvale, St Helens Dover, Yaverland, Colwell Bay, Gurnard, Christchurch (Highcliffe Castle), Torbay (Watcombe), Torbay (Churston Cove), Dartmouth (Strete Gate), Hope Cove Inner Hope, Mouthwell Outer Hope, Bantham, St Merryn (Harlyn Bay), Bude (Crooklets), Southerndown, Saundersfoot (Amroth), Saundersfoot (Wiseman's Bridge), Saundersfoot (Coppet Hall), Tenby South, West Angle Bay, Dale, Haverfordwest (Broad Haven), Nolton Haven, St Davids (Caerfai), Pwllgwaelod, Fishguard (Cym-Yr-Eglwys), Aberporth (Traeth Y Diffryn), Tresaith, Penbryn, Cwmtydu, Llangrannog, New Quay (Traethgwyn), New Quay (Traeth Harbwr), New Quay (Traeth Cei Bach), Aberaeron (Traeth Y De), Gilfach Yr Halen, Borth, Llandanwg, Llanddwyn, Rhoscolwyn (Borth Wen), Trearddur Bay, Holyhead (Porth Dafarch), Benllech, Llanddona, Cranfield Bay |

<sup>BF</sup> indicates a 1994 European Blue Flag Award

#### 4.3 Comparison of Identified Bathing Waters in England and Wales with Blue Flag and Premier Seaside Award Microbiological Standards

To be eligible for a Blue Flag or Premier Seaside Award a beach must now (amongst the other criteria) have a water quality which meets the mandatory and guideline microbiological standards of the Bathing Waters Directive for total and faecal coliforms and faecal streptococci.

TABLE 4 - BATHING WATERS BY REGION WITHIN THE GUIDELINE MICROBIOLOGICAL STANDARDS REQUIRED FOR BLUE FLAG AND PREMIER SEASIDE AWARDS DURING THE 1994 BATHING SEASON

| Region                  | Bathing waters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| North West              | Moreton at Pasture Road, Walney Sandy Gap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Northumbria & Yorkshire | Bamburgh Castle, Seahouses North, Beadnell, Low Newton, Alnmouth, Warkworth, Amblelinks, Druridge Bay, Barmston, Skipsea, Tunstall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Anglian                 | Sutton-on-sea, Moggs Eye, Anderby, Ingoldmells South, Skegness, Sheringham, Lowestoft South, Southwold the Denes, Felixstowe North, Felixstowe South, Brightlingsea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Thames                  | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Southern                | Sheerness, Minnis Bay, Joss Bay, Hythe, Selsey, West of Eastoke, West Hayling, Eastney, Stokes Bay, Calshot, Milford-on-sea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| South Western           | Christchurch Highcliffe Castle, Bournemouth Hengistbury East, Bournemouth Fishermans Walk, Bournemouth Durley Chine, Shell Bay North, Studland Knoll House, Lulworth Cove, Durdle Door East, Durdle Door West, Church Ope Cove, Weymouth Lodmoor, West Bay (West), Dawlish Warren, Ness Cove, Maidencombe, Watcombe, Oddicombe, Beacon Cove, Torre Abbey, Shoalstone, Blackpool Sands, Slapton Sands (Monument), Slapton Sands (Torcross), Thurlestone (South), Thurlestone (North), Bantham, Bigbury-on-Sea (North), Challaborough, Bovisand, Downderry, Seaton (Cornwall), Polkerris, Crinnis (Golf Links), Crinnis (Leisure Centre), Charlestown, Duporth, Porthpean, Polstreath, Gorran Haven (Vault), Porthluney, Gyllyngvase, Swanpool, Porthoustock, Kennack Sands, Gunwalloe Cove, Praa Sands (East), Praa Sands (West), Perran Sands, Porthcurno, Sennen, Carbis Bay (Porth Kidney Sands), The Towans (Hayle), The Towans (Godrevy), Portreath, Porthtowan, Perranporth (Penhale Sands), Fistral Beach Newquay, Porthcothan, Treyarnon Bay, Constantine Bay, Mother Ivey's Bay, Harlyn Bay, Rock, Daymer Bay, Widemouth Sand, Bude (Crooklets), Bude (Sandy Mouth), Hartland Quay, Woolacombe (Putsborough), Woolacombe (Village), Porlock Weir |
| Welsh                   | Oxwich Bay, Port Eynon Bay, Rhossili, Borth, Fairbourne, Barmouth, Pwllheli, Morfa Dinlle, Rhosneigr, Trearddur Bay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

Table 4 lists the 116 identified bathing waters in England and Wales which met these guideline standards during the 1994 bathing season. Because the microbiological standards are not the sole criteria on which awards are based, not all of these bathing waters - if submitted - may attain a 1995 award. It should be noted that there will, in addition to those bathing waters in Table 4, be bathing waters eligible for the Seaside Award on the basis of compliance with the mandatory standards for total and faecal coliforms.

#### 4.4 Comparison of Identified Bathing Waters with Directive Faecal Streptococci Standard

Compliance of bathing waters is based on the mandatory standards set in the Directive. As faecal streptococci currently has only a guideline standard, compliance with the standard set for this parameter does not affect the overall compliance of a bathing water with the Directive (section 2.2). Faecal streptococci analysis was carried out to enable Blue Flag and Seaside Awards to be made at those bathing beaches entering the schemes.

Table 5 shows the number of bathing waters within each Region in the 1994 bathing season which attained compliance with the Directive's faecal streptococci standard of 90% of samples with no more than 100 per 100 ml.

TABLE 5 - NUMBER OF BATHING WATERS BY REGION WITHIN GUIDELINE FAECAL STREPTOCOCCI STANDARD

| Region                  | Number within Guideline standard | % within Guideline standard |
|-------------------------|----------------------------------|-----------------------------|
| Anglian                 | 12                               | 36%                         |
| Northumbria & Yorkshire | 20                               | 36%                         |
| North West              | 8                                | 24%                         |
| Southern                | 24                               | 36%                         |
| South Western           | 103                              | 59%                         |
| Thames                  | 1                                | 33%                         |
| Welsh                   | 14                               | 27%                         |
| TOTAL                   | 182                              | 43%                         |



## 5 OTHER ISSUES RELATING TO BATHING WATER QUALITY

### 5.1 Implementation of the Directive in EC Member States

The Commission of the European Communities published in 1994 a report entitled "Quality of Bathing Water 1993" (CEC 1994). This is the eleventh report in the series and covers the 1993 data from the 12 Member States.

In order to provide objective and comparable information, the 1993 report concentrates on compliance of bathing waters with the mandatory values given in the Annex of Directive 76/160/EEC. Prior to 1991, the reports had referred to the more stringent standards which some Member States had set under the provisions made in Articles 3 and 7 of the Directive. This approach had led to some confusion in the comparison of bathing water quality between Member States.

Table 6 shows the sampling frequency required and achieved for marine bathing waters in each of the Member States. Eight out of 11 Member States continue to have a number of bathing waters with an inadequate sampling frequency.

TABLE 6 - COMPARISON OF SAMPLING FREQUENCY AT MARINE WATERS IN EC MEMBER STATES

| Member State <sup>(a)</sup> | No. of marine sampling points <sup>(b)</sup> | Required Frequency <sup>(c)</sup> | No. with inadequate sampling frequency | Average No. of Samples Taken |
|-----------------------------|----------------------------------------------|-----------------------------------|----------------------------------------|------------------------------|
| Belgium                     | 39                                           | 13 (7)                            | 0                                      | 44.8                         |
| Denmark                     | 1180                                         | 9 (5)                             | 2                                      | 12.0                         |
| Germany                     | 436                                          | 9 (5)                             | 32                                     | 12.0                         |
| Greece                      | 1250                                         | 11 (6) or 13 (7)                  | 10                                     | 14.0                         |
| Spain                       | 1405                                         | 7-11                              | 6                                      | 13.8                         |
| France                      | 1856                                         | 3 (2) - 21 (11)                   | 166                                    | 11.2                         |
| Ireland                     | 90                                           | 7 (4)                             | 0                                      | 10.5                         |
| Italy                       | 4288                                         | 11 (6) or 13 (7)                  | 287                                    | 10.7                         |
| Netherlands                 | 45                                           | 9 (5)                             | 6                                      | 9.0                          |
| Portugal                    | 312                                          | 9 (5)                             | 34                                     | 9.4                          |
| United Kingdom              | 457                                          | 10 (6) or 6 (4)                   | 0                                      | 20.3                         |

(a) Luxembourg is not included as it has no marine bathing waters.

(b) The number of sampling points is not necessarily the same as the number of identified bathing waters.

(c) The minimum number of samples required depends on the length of bathing season which can differ between regions of a Member State because of geographical and climatical conditions (eg. in England and Wales 15 May to 30 September, in Scotland and Northern Ireland 1 June to 15 September). Also, if the water quality has, in previous years, been appreciably better than the standards laid down in the Annex, the Directive allows sampling frequency to be reduced to the values given in brackets.

TABLE 7 - COMPARISON OF COMPLIANCE OF MARINE WATERS WITH MANDATORY (I VALUE) COLIFORM STANDARDS OF DIRECTIVE

| Member State <sup>(a)</sup> | No. of marine sampling points <sup>(b)</sup> | No. complying with 'I' values | % compliance |
|-----------------------------|----------------------------------------------|-------------------------------|--------------|
| Belgium                     | 39                                           | 32                            | 82%          |
| Denmark <sup>(c)</sup>      | 1180                                         | 1135                          | 96%          |
| Germany                     | 436                                          | 333                           | 76%          |
| Greece                      | 1250                                         | 1201                          | 96%          |
| Spain                       | 1405                                         | 1341                          | 95%          |
| France                      | 1856                                         | 1526                          | 82%          |
| Ireland                     | 90                                           | 86                            | 96%          |
| Italy                       | 4288                                         | 3755                          | 88%          |
| Netherlands <sup>(c)</sup>  | 45                                           | 39                            | 87%          |
| Portugal                    | 312                                          | 252                           | 81%          |
| United Kingdom              | 457                                          | 365                           | 80%          |

- (a) Luxembourg is not included as it has no marine bathing waters.
- (b) The number of sampling points is not necessarily the same as the number of identified bathing waters.
- (c) Denmark and the Netherlands do not analyse for total coliforms as they have concluded that in all cases where a water met the required standard for faecal coliforms it also complied with the limits for total coliforms. This table therefore represents compliance with the mandatory faecal coliform standard only in these Member States.

The methods of coliform analysis recommended by the Directive leaves some flexibility for Member States, which means that compliance with Directive standards may not be directly comparable. This has been recognised by the European Commission which has organised comparative studies of microbiological methods of analysing seawater. It is hoped that the report on these studies will be published soon.

## 5.2 Revision of the Directive

The European Commission was given a mandate at the December 1992 European Summit in Edinburgh to review water quality Directives "in the light of scientific knowledge and technical progress". The aim was not to weaken existing standards, but to devolve responsibility of standard setting to the national, regional and local level under the principle of subsidiarity. On 16 February 1994 the European Commission approved proposals for a new Bathing Water Directive, intended to streamline the Directive and bring it into line with current scientific thinking (Appendix C).

The proposals include dropping the total coliforms parameter which is not felt to be a particularly useful indicator of sewage pollution. Salmonella and certain physico-chemical parameters which are not considered suitable measures of water quality have also been removed. The standards for faecal coliforms (*E.coli*) and enterovirus have been retained, however the sampling frequency for enterovirus has been changed from discretionary to a minimum of 2 samples per season. The proposals also contain a mandatory standard for faecal streptococci of no more than 400 per 100ml in 95% of samples, but with a provision for abnormal peak values to be disregarded if the water is retested. It must be stressed however that such amendments to the Directive are currently only proposed and are subject to negotiations between Member States before adoption of final text.

The Economic and Social Committee of the European Communities considered the proposed revision of the Directive during 1994 and at the meeting of 14 September the Opinion (Appendix D) was adopted. The Committee welcomed the new proposal but were unhappy about the Commission's assertion that the proposal would not result in a tightening of standards. Data from some Member States indicate that the new imperative value for faecal streptococci would have a considerable effect on the compliance figures and this would be construed as a tightening of standards. The Committee also indicated that it would prefer to see bacteriophage replace enterovirus monitoring in the near future. The NRA acted as a Technical Expert to this Committee.

The new proposals were also examined by Sub-Committee C (Environment and Social Affairs) of the House of Lords. The Committee took evidence from the Department of the Environment, Department of Health, NRA, WSA, the Association of County Councils, a number of experts from environmental groups and microbiological experts from other countries. A report on their findings was made public on 16 December (HL, 1994). The Committee was of the opinion that further research was needed into standards and that greater account should be taken of the 4 year study recently completed in the UK. Furthermore the Committee thought that the Directive should be confined to monitoring microbiological parameters which are good indicators of public health risk.

In November the Environment Committee of the European Parliament commenced its examination of the new proposals. In December this Committee recommended that its deliberations should be held in abeyance until the Commission could come forward with better parameters, scientific justification and better testing methods. Further progress will be dependent on the Commission reviewing its proposals.

The NRA will continue to actively advise DoE and the European institutions on the implications of the proposals to ensure that new parameters and standards have a sound scientific basis. It is particularly important to use the depth of information collected by the NRA to provide a sound basis for the improvements to the Directive.



## 6. REFERENCES

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**7. APPENDICES**

|                   |                                                                                                                                     |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appendix A</b> | <b>Bathing Water Directive, Detailed Summary of Monitoring Results in 1994</b>                                                      |
| <b>Appendix B</b> | <b>Update on Bathing Water Improvement Schemes in England and Wales</b>                                                             |
| <b>Appendix C</b> | <b>Proposal for a Council Directive Concerning the Quality of Bathing Water</b>                                                     |
| <b>Appendix D</b> | <b>Opinion of the Economic and Social Committee on the Proposal for a Council Directive Concerning the Quality of Bathing Water</b> |

## **APPENDIX A**

### **BATHING WATER DIRECTIVE DETAILED SUMMARY OF MONITORING RESULTS IN 1994**

The following information forms the basis of the Report to Parliament made by the Department of the Environment in pursuance of Article 13 of the Bathing Water Directive. It provides a summary of the results of the survey during 1994 of the quality of bathing waters in England and Wales included within the scope of Council Directive 76/160/EEC.

#### **Section 1: Changes from 1993 List of Identified Waters**

No additional bathing waters were identified for the 1994 bathing season.

The name of the bathing water formerly known as Weston-Super-Mare Tropicana has been changed to Weston Main and that of Clevedon Swimming Pool to Clevedon Beach to avoid confusion with artificial bathing waters in those locations.

No results are recorded for Porthleven East and Lyme Regis Church Beach, both in NRA South Western Region. Access to Porthleven East has been impossible for a number of years and Lyme Regis Church Beach was closed for engineering works for the entire season.

#### **Section 2: Bathing Season and Sampling Frequency**

The bathing season is generally taken as being from 15 May to 30 September in England and Wales. However, the competent authorities may vary the length of the season depending on local conditions.

Throughout the UK a minimum of 20 samples were taken over the season except at Mounts Bay Heliport, which was closed for parts of the year, where only 12 samples were taken. In most cases this is in excess of the minimum requirements of the Directive.

There are no cases where sampling frequency was reduced in accordance with footnote (1) to the Annex to the Directive.

The "Article 13" report is divided into two sections, dealing with coliform and other mandatory parameters.

#### **Section 3: Coliform Parameters**

The tables contain a numerical summary of the information required to assess compliance with the Directive's mandatory coliform standards. The tables are arranged to show the bathing waters in clockwise order, starting at Spittal, which is the most north-easterly bathing water in NRA Northumbria & Yorkshire Region and proceeding around England and Wales to Skinburness in NRA North West Region. The Isle of Wight waters are placed in the report between Highcliffe and Christchurch, that is to say, as the last waters in the NRA Southern Region.

For each water, the following information is given:

1. The grid references

#### **TOTAL COLIFORMS**

2. Number of results
3. Median of results
4. Range of results (minimum and maximum)
5. Number of results failing to conform to the Directive's standard.

#### **FAECAL COLIFORMS**

6. Number of results
7. Median of results
8. Range of results (minimum and maximum)
9. Number of results failing to conform to the Directive's standard.

Derivations from the values referred to in Article 3 may, in accordance with Article 5(2), be excluded from the assessment of compliance if they arise as a result of abnormal weather conditions. No exclusions under Article 5(2) were applied for with regard to the 1994 season.

### **Section 4: Other Mandatory Parameters**

The tables contain the numerical summary of results for the other mandatory parameters covered by the Directive. The bathing waters are set out as in Section 3.

The Annex to the Directive provides that these parameters do not have to be measured in every case. The results for each parameter are given as the number of observations and, in the columns headed "F", the number failing to comply with the Directive's mandatory requirements. As with section 3, no results have been excluded this year as a result of abnormal weather conditions.

Article 8 states that the Directive may be waived in the case of certain parameters to take into account local weather, geographic conditions or natural enrichment. Waivers for transparency and colour (indicated by an asterisk) have been granted and are likely to be permanent.

### Section 3

#### Bathing Waters Survey — 1994 Results (United Kingdom)

#### Compliance with Bathing Water Directive (76/160/EEC): COLIFORM STANDARDS

| Northumbria & Yorkshire Region |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
|--------------------------------|-------------------------|-------------------|-----------------|---------|---------|--------------------|-------------------|------------------|---------|---------|--------------------|
| Bathing Water                  | National Grid Reference | Number of Samples | Total Coliforms |         |         | Number of Failures | Number of Samples | Faecal Coliforms |         |         | Number of Failures |
|                                |                         |                   | Median          | Minimum | Maximum |                    |                   | Median           | Minimum | Maximum |                    |
| Spittal                        | NU00805150              | 20                | 219             | 52      | 10000   | 0                  | 20                | 42               | 15      | 2280    | 1                  |
| Bamburgh Castle                | NU18503530              | 20                | 28              | 1       | 510     | 0                  | 20                | 17               | 0       | 432     | 0                  |
| Seahouses North                | NU21103300              | 20                | 23              | 1       | 800     | 0                  | 20                | 14               | 0       | 330     | 0                  |
| Beadnell                       | NU23302840              | 20                | 39              | 3       | 1800    | 0                  | 20                | 36               | 0       | 540     | 0                  |
| Low Newton                     | NU24202450              | 20                | 30              | 0       | 480     | 0                  | 20                | 13               | 0       | 340     | 0                  |
| Alnmouth                       | NU25301070              | 20                | 56              | 1       | 2200    | 0                  | 20                | 20               | 0       | 1080    | 0                  |
| Warkworth                      | NU25900650              | 20                | 8               | 0       | 380     | 0                  | 20                | 6                | 0       | 200     | 0                  |
| Amblelinks                     | NU27600440              | 20                | 22              | 3       | 1750    | 0                  | 20                | 9                | 0       | 1100    | 0                  |
| Druridge Bay                   | NZ27909640              | 20                | 37              | 1       | 1800    | 0                  | 20                | 16               | 0       | 469     | 0                  |
| Newbiggin North                | NZ31308780              | 20                | 120             | <10     | 10000   | 0                  | 20                | 65               | <10     | 3960    | 1                  |
| Newbiggin South                | NZ31108730              | 20                | 81              | 0       | 1080    | 0                  | 20                | 50               | <10     | 666     | 0                  |
| Blyth South Beach              | NZ32207950              | 20                | 622             | 0       | 3300    | 0                  | 20                | 170              | <10     | 880     | 0                  |
| Seaton Sluice                  | NZ33407710              | 20                | 40              | <10     | 920     | 0                  | 20                | 25               | <10     | 486     | 0                  |
| Whitley Bay                    | NZ35307340              | 20                | 84              | 8       | 9900    | 0                  | 20                | 50               | 0       | 2720    | 2                  |
| Tynemouth Cullercoats          | NZ36507130              | 20                | 101             | <10     | 6500    | 0                  | 20                | 70               | <10     | 1300    | 0                  |
| Tynemouth Long Sands North     | NZ36607080              | 20                | 167             | <10     | 7120    | 0                  | 20                | 95               | 0       | 2500    | 1                  |
| Tynemouth Long Sands South     | NZ36907020              | 20                | 76              | <10     | 18000   | 1                  | 20                | 30               | <10     | 6200    | 1                  |
| Tynemouth King Edwards Bay     | NZ37306960              | 20                | 70              | <10     | 19500   | 1                  | 20                | 20               | <10     | 4900    | 1                  |
| South Shields                  | NZ37906740              | 20                | 113             | 7       | 4520    | 0                  | 20                | 29               | 2       | 1204    | 0                  |
| Marsden                        | NZ40006500              | 20                | 156             | 2       | 5000    | 0                  | 20                | 63               | 0       | 1760    | 0                  |
| Whitburn North                 | NZ40706050              | 20                | 575             | 70      | 75000   | 2                  | 20                | 226              | <10     | 30000   | 2                  |
| Roker/Whitburn South           | NZ40705930              | 20                | 300             | 30      | 6400    | 0                  | 20                | 106              | <10     | 1100    | 0                  |
| Seaham Beach                   | NZ42405080              | 20                | 218             | <10     | 12000   | 2                  | 20                | 100              | 0       | 5800    | 2                  |
| Seaham Remand Home             | NZ42605050              | 20                | 204             | 30      | 11610   | 2                  | 20                | 100              | <10     | 7500    | 2                  |
| Crimdon                        | NZ48503730              | 20                | 815             | 80      | 64800   | 1                  | 20                | 303              | 20      | 4200    | 2                  |
| Seaton Carew North             | NZ52503050              | 20                | 99              | 2       | 16000   | 1                  | 20                | 41               | 0       | 3200    | 1                  |
| Seaton Carew Centre            | NZ53102960              | 20                | 135             | 0       | 2700    | 0                  | 20                | 73               | 6       | 333     | 0                  |
| Seaton Carew North Gare        | NZ54002860              | 20                | 175             | 3       | 2124    | 0                  | 20                | 56               | 5       | 504     | 0                  |
| Redcar Coatham                 | NZ59202570              | 20                | 94              | 3       | 2500    | 0                  | 20                | 46               | 0       | 1600    | 0                  |
| Redcar LB Station              | NZ60602550              | 20                | 120             | 1       | 2060    | 0                  | 20                | 36               | 0       | 1120    | 0                  |
| Redcar Granville               | NZ61302510              | 20                | 97              | 6       | 882     | 0                  | 20                | 52               | 4       | 310     | 0                  |
| Redcar Stray                   | NZ62502380              | 20                | 114             | 0       | 1908    | 0                  | 20                | 41               | 0       | 1020    | 0                  |
| Sea at Marske Sands            | NZ63602320              | 20                | 177             | <2      | 2100    | 0                  | 20                | 43               | 2       | 1060    | 0                  |
| Saltburn                       | NZ66602170              | 20                | 390             | <10     | 7500    | 0                  | 20                | 105              | 0       | 1140    | 0                  |
| Staithes                       | NZ78701900              | 20                | 607             | 84      | 42100   | 1                  | 20                | 350              | 10      | 13680   | 2                  |
| Runswick Bay                   | NZ81101590              | 20                | 113             | <10     | 6720    | 0                  | 20                | 60               | <10     | 3420    | 1                  |
| Sandsend                       | NZ86401260              | 20                | 45              | 10      | 21300   | 1                  | 20                | 30               | <10     | 9520    | 1                  |
| Whitby                         | NZ89701170              | 20                | 35              | <10     | 1100    | 0                  | 20                | 10               | <10     | 472     | 0                  |
| Robin Hoods Bay                | NZ95900450              | 20                | 35              | <10     | 2520    | 0                  | 20                | 10               | <10     | 1710    | 0                  |
| Scarborough North Bay          | TA03709000              | 20                | 113             | <10     | 1080    | 0                  | 20                | 70               | <10     | 760     | 0                  |

### Section 3

#### Bathing Waters Survey — 1994 Results (United Kingdom)

#### Compliance with Bathing Water Directive (76/160/EEC): COLIFORM STANDARDS

| Northumbria & Yorkshire Region (contd) |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
|----------------------------------------|-------------------------|-------------------|-----------------|---------|---------|--------------------|-------------------|------------------|---------|---------|--------------------|
| Bathing Water                          | National Grid Reference | Number of Samples | Total Coliforms |         |         | Number of Failures | Number of Samples | Faecal Coliforms |         |         | Number of Failures |
|                                        |                         |                   | Median          | Minimum | Maximum |                    |                   | Median           | Minimum | Maximum |                    |
| Scarborough South Bay                  | TA04608860              | 20                | 369             | 10      | 6500    | 0                  | 20                | 93               | <10     | 3360    | 2                  |
| Cayton Bay                             | TA06708450              | 20                | 257             | 10      | 19300   | 1                  | 20                | 97               | <10     | 7200    | 1                  |
| Filey                                  | TA12008060              | 20                | 70              | <10     | 3680    | 0                  | 20                | 45               | <10     | 3200    | 1                  |
| Reighton                               | TA14407630              | 20                | 25              | <10     | 12060   | 1                  | 20                | 10               | <10     | 7360    | 1                  |
| Flamborough North Landing              | TA23807220              | 20                | 230             | <10     | 5800    | 0                  | 20                | 200              | <10     | 3360    | 1                  |
| Flamborough South Landing              | TA23106920              | 20                | 100             | <10     | 740     | 0                  | 20                | 50               | <10     | 592     | 0                  |
| Bridlington North Beach                | TA19006720              | 20                | 60              | <10     | 3600    | 0                  | 20                | 40               | <10     | 3440    | 1                  |
| Bridlington South Beach                | TA18106610              | 20                | 65              | <10     | 5500    | 0                  | 20                | 45               | <10     | 5500    | 1                  |
| Wilsthorpe                             | TA17206400              | 20                | 50              | <10     | 13100   | 1                  | 20                | 40               | <10     | 1900    | 0                  |
| Fraisthorpe                            | TA17106290              | 20                | 275             | <10     | 6210    | 0                  | 20                | 178              | <10     | 2800    | 1                  |
| Earls Dyke                             | TA17006150              | 20                | 285             | <10     | 23360   | 1                  | 20                | 117              | <10     | 2500    | 1                  |
| Barmston                               | TA17205940              | 20                | 45              | <10     | 1100    | 0                  | 20                | 15               | <10     | 392     | 0                  |
| Skipsea                                | TA17705720              | 20                | 30              | <10     | 1300    | 0                  | 20                | 15               | <10     | 900     | 0                  |
| Hornsea                                | TA21004780              | 20                | 65              | <10     | 1200    | 0                  | 20                | 35               | <10     | 1200    | 0                  |
| Tunstall                               | TA32203120              | 20                | 15              | <10     | 1800    | 0                  | 20                | 10               | <10     | 1800    | 0                  |
| Withernsea                             | TA34402810              | 20                | 93              | <10     | 1500    | 0                  | 20                | 25               | <10     | 1080    | 0                  |

| Anglian Region    |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
|-------------------|-------------------------|-------------------|-----------------|---------|---------|--------------------|-------------------|------------------|---------|---------|--------------------|
| Bathing Water     | National Grid Reference | Number of Samples | Total Coliforms |         |         | Number of Failures | Number of Samples | Faecal Coliforms |         |         | Number of Failures |
|                   |                         |                   | Median          | Minimum | Maximum |                    |                   | Median           | Minimum | Maximum |                    |
| Cleethorpes       | TA31050860              | 20                | 2400            | 11      | 18000   | 4                  | 20                | 1600             | 4       | 11000   | 9                  |
| Mablethorpe Town  | TF50808540              | 20                | 245             | 8       | 3300    | 0                  | 20                | 48               | 5       | 500     | 0                  |
| Sutton-on-sea     | TF52258210              | 20                | 94              | 7       | 700     | 0                  | 20                | 38               | 7       | 300     | 0                  |
| Moggs Eye         | TF55007760              | 20                | 20              | 4       | 1300    | 0                  | 20                | 16               | 2       | 1200    | 0                  |
| Anderby           | TF55307620              | 20                | 25              | 4       | 1200    | 0                  | 20                | 19               | 4       | 700     | 0                  |
| Chapel St Leonard | TF56407220              | 20                | 42              | 7       | 800     | 0                  | 20                | 28               | 7       | 300     | 0                  |
| Ingoldmells South | TF57406855              | 20                | 37              | 3       | 600     | 0                  | 20                | 27               | 0       | 180     | 0                  |
| Skegness          | TF57206345              | 20                | 34              | 3       | 2100    | 0                  | 20                | 29               | 3       | 1000    | 0                  |
| Heacham           | TF66303750              | 20                | 195             | 10      | >20000  | 1                  | 20                | 100              | <10     | 2150    | 1                  |
| Hunstanton Beach  | TF67804250              | 20                | 109             | <10     | 1600    | 0                  | 20                | 25               | <10     | 740     | 0                  |
| Wells             | TF91404560              | 20                | 75              | <10     | 3000    | 0                  | 20                | 35               | <10     | 3000    | 1                  |
| Sheringham        | TG16204360              | 20                | 42              | <10     | 1700    | 0                  | 20                | 30               | <10     | 360     | 0                  |
| Cromer            | TG21904250              | 20                | 1690            | 225     | 6311    | 0                  | 20                | 550              | 32      | 6300    | 2                  |
| Mundesley         | TG31703660              | 20                | 241             | 20      | 1114    | 0                  | 20                | 83               | <10     | 450     | 0                  |
| Hemsby            | TG50901740              | 20                | 10              | <10     | 3900    | 0                  | 20                | 10               | <10     | 3550    | 1                  |



**Section 3**  
**Bathing Waters Survey — 1994 Results (United Kingdom)**  
**Compliance with Bathing Water Directive (76/160/EEC): COLIFORM STANDARDS**

| <b>Anglian Region (contd)</b> |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
|-------------------------------|-------------------------|-------------------|-----------------|---------|---------|--------------------|-------------------|------------------|---------|---------|--------------------|
| Bathing Water                 | National Grid Reference | Number of Samples | Total Coliforms |         |         | Number of Failures | Number of Samples | Faecal Coliforms |         |         | Number of Failures |
|                               |                         |                   | Median          | Minimum | Maximum |                    |                   | Median           | Minimum | Maximum |                    |
| Caister Point                 | TG53001200              | 20                | 163             | 10      | 2350    | 0                  | 20                | 78               | <10     | 1120    | 0                  |
| Great Yarmouth North          | TG53501050              | 20                | 253             | <10     | 4900    | 0                  | 20                | 108              | <10     | 2200    | 1                  |
| Great Yarmouth Pier           | TG53300740              | 20                | 1250            | 270     | 6720    | 0                  | 20                | 650              | 100     | 3240    | 2                  |
| Great Yarmouth South          | TG53300640              | 20                | 1640            | 280     | 9800    | 0                  | 20                | 642              | 100     | 3970    | 3                  |
| Gorleston Beach               | TG53200310              | 20                | 930             | 300     | >20000  | 1                  | 20                | 299              | 88      | >20000  | 2                  |
| Lowestoft North               | TM55309500              | 20                | 343             | 77      | 1100    | 0                  | 20                | 114              | 10      | 400     | 0                  |
| Lowestoft South               | TM54509170              | 20                | 80              | <10     | 560     | 0                  | 20                | 20               | <10     | 120     | 0                  |
| Southwold The Denes           | TM50807540              | 20                | 41              | <10     | 360     | 0                  | 20                | 10               | <10     | 160     | 0                  |
| Felixstowe North              | TM30503430              | 20                | 127             | <10     | 1500    | 0                  | 20                | 20               | <10     | 130     | 0                  |
| Felixstowe South              | TM29703370              | 20                | 114             | <10     | 330     | 0                  | 20                | 28               | <10     | 193     | 0                  |
| Dovercourt                    | TM25173064              | 20                | 150             | <10     | 3600    | 0                  | 20                | 68               | <10     | 1300    | 0                  |
| Walton                        | TM25552156              | 20                | 330             | 10      | >20000  | 1                  | 20                | 150              | <10     | 700     | 0                  |
| Frinton                       | TM23791941              | 20                | 246             | <10     | 7520    | 0                  | 20                | 95               | <10     | 1900    | 0                  |
| Holland                       | TM22451765              | 20                | 43              | <10     | 1500    | 0                  | 20                | 30               | <10     | 400     | 0                  |
| Clacton                       | TM18791525              | 20                | 123             | <10     | 580     | 0                  | 20                | 50               | <10     | 350     | 0                  |
| Jaywick                       | TM14851280              | 20                | 252             | 10      | 2250    | 0                  | 20                | 190              | <10     | 1700    | 0                  |
| Brightlingsea                 | TM07631616              | 20                | 88              | <10     | 1500    | 0                  | 20                | 15               | <10     | 190     | 0                  |
| West Mersea                   | TM02271203              | 20                | 227             | 10      | >20000  | 1                  | 20                | 90               | <10     | 5956    | 3                  |

| <b>Thames Region</b>   |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
|------------------------|-------------------------|-------------------|-----------------|---------|---------|--------------------|-------------------|------------------|---------|---------|--------------------|
| Bathing Water          | National Grid Reference | Number of Samples | Total Coliforms |         |         | Number of Failures | Number of Samples | Faecal Coliforms |         |         | Number of Failures |
|                        |                         |                   | Median          | Minimum | Maximum |                    |                   | Median           | Minimum | Maximum |                    |
| Shoebury East          | TQ94508520              | 20                | 100             | <10     | 1400    | 0                  | 20                | 50               | <10     | 280     | 0                  |
| Southend Thorpe Bay    | TQ91108470              | 20                | 200             | 20      | 4300    | 0                  | 20                | 110              | <10     | 2700    | 2                  |
| Southend Westcliff Bay | TQ86458525              | 20                | 497             | 20      | 45500   | 1                  | 20                | 285              | <10     | 20300   | 1                  |

| <b>Southern Region</b> |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
|------------------------|-------------------------|-------------------|-----------------|---------|---------|--------------------|-------------------|------------------|---------|---------|--------------------|
| Bathing Water          | National Grid Reference | Number of Samples | Total Coliforms |         |         | Number of Failures | Number of Samples | Faecal Coliforms |         |         | Number of Failures |
|                        |                         |                   | Median          | Minimum | Maximum |                    |                   | Median           | Minimum | Maximum |                    |
| Sheerness              | TQ92507500              | 20                | 20              | <10     | 630     | 0                  | 20                | 10               | <10     | 380     | 0                  |
| Leysdown               | TR03407080              | 20                | 135             | <10     | 6800    | 0                  | 20                | 58               | <10     | 880     | 0                  |
| West Beach             | TR09806600              | 20                | 58              | <10     | 1800    | 0                  | 20                | 35               | <10     | 1100    | 0                  |
| Herne Bay              | TR18606860              | 20                | 2250            | 180     | 22000   | 4                  | 20                | 735              | 40      | 8600    | 6                  |
| Minnis Bay             | TR28606970              | 20                | 43              | <10     | 210     | 0                  | 20                | 20               | <10     | 100     | 0                  |
| St Mildred's Bay       | TR32807050              | 20                | 95              | 10      | 600     | 0                  | 20                | 58               | <10     | 360     | 0                  |
| Margate The Bay        | TR34707080              | 20                | 265             | 10      | 2800    | 0                  | 20                | 155              | 10      | 1700    | 0                  |
| Margate Fulsam Rock    | TR35607150              | 20                | 48              | <10     | 530     | 0                  | 20                | 20               | <10     | 470     | 0                  |
| Joss Bay               | TR39907020              | 20                | 100             | <10     | 470     | 0                  | 20                | 48               | <10     | 290     | 0                  |
| Broadstairs            | TR39806770              | 20                | 220             | 20      | 69300   | 1                  | 20                | 140              | <10     | 12800   | 1                  |



### Section 3

#### Bathing Waters Survey — 1994 Results (United Kingdom)

#### Compliance with Bathing Water Directive (76/160/EEC): COLIFORM STANDARDS

| Southern Region (contd) |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
|-------------------------|-------------------------|-------------------|-----------------|---------|---------|--------------------|-------------------|------------------|---------|---------|--------------------|
| Bathing Water           | National Grid Reference | Number of Samples | Total Coliforms |         |         | Number of Failures | Number of Samples | Faecal Coliforms |         |         | Number of Failures |
|                         |                         |                   | Median          | Minimum | Maximum |                    |                   | Median           | Minimum | Maximum |                    |
| Romsgate                | TR37206400              | 20                | 3650            | <100    | 230000  | 3                  | 20                | 1600             | 100     | 90000   | 6                  |
| Sandwich Bay            | TR35805900              | 20                | 6700            | 300     | 82800   | 5                  | 20                | 1650             | 180     | 4400    | 8                  |
| Deal Castle             | TR37805270              | 20                | 1900            | 20      | 10300   | 1                  | 20                | 845              | 20      | 4000    | 5                  |
| St Margaret's Bay       | TR36804440              | 20                | 170             | 10      | 690     | 0                  | 20                | 45               | <10     | 270     | 0                  |
| Folkestone              | TR23703630              | 20                | 880             | 90      | 13700   | 1                  | 20                | 320              | 10      | 5700    | 4                  |
| Sandgate                | TR18803480              | 20                | 83              | <10     | 5800    | 0                  | 20                | 20               | <10     | 5000    | 1                  |
| Hythe                   | TR16003400              | 20                | 45              | <10     | 380     | 0                  | 20                | 20               | <10     | 140     | 0                  |
| Dymchurch               | TR11303040              | 20                | 170             | <10     | 1400    | 0                  | 20                | 63               | <10     | 610     | 0                  |
| St Mary's Bay           | TR09302770              | 20                | 125             | 20      | 780     | 0                  | 20                | 50               | <10     | 470     | 0                  |
| Littlestone             | TR08402390              | 20                | 135             | 10      | 1400    | 0                  | 20                | 75               | <10     | 1400    | 0                  |
| Camber                  | TQ97301840              | 20                | 115             | <10     | 1100    | 0                  | 20                | 95               | <10     | 1100    | 0                  |
| Winchelsea              | TQ91201540              | 20                | 85              | <10     | 9200    | 0                  | 20                | 33               | <10     | 400     | 0                  |
| Hastings                | TQ81900920              | 20                | 525             | 140     | 52000   | 3                  | 20                | 220              | 15      | 31500   | 4                  |
| Bexhill                 | TQ73700680              | 20                | 390             | 90      | 17100   | 1                  | 20                | 125              | 40      | 12200   | 1                  |
| Norman's Bay            | TQ68200530              | 20                | 585             | 30      | 1900    | 0                  | 20                | 220              | 20      | 1400    | 0                  |
| Pevensey Bay            | TQ65700370              | 20                | 395             | 80      | 1700    | 0                  | 20                | 150              | 35      | 660     | 0                  |
| Eastbourne              | TV61409820              | 20                | 325             | 30      | 6900    | 0                  | 20                | 195              | 10      | 2200    | 1                  |
| Seaford                 | TV48809820              | 20                | 340             | 40      | 64000   | 2                  | 20                | 160              | 10      | 21000   | 3                  |
| Newhaven                | TV44909980              | 20                | 610             | 40      | 15400   | 1                  | 20                | 290              | <10     | 4100    | 1                  |
| Saltdan                 | TQ38100180              | 20                | 70              | <10     | 37500   | 1                  | 20                | 10               | <10     | 28900   | 1                  |
| Brighton                | TQ32300340              | 20                | 135             | 10      | 39900   | 1                  | 20                | 90               | <10     | 15400   | 2                  |
| Hove                    | TQ28800430              | 20                | 805             | 20      | 72800   | 2                  | 20                | 225              | 10      | 18300   | 3                  |
| Southwick               | TQ24200480              | 20                | 1200            | <10     | 27500   | 1                  | 20                | 405              | <10     | 13800   | 2                  |
| South Lancing           | TQ18300360              | 20                | 530             | 10      | 113200  | 2                  | 20                | 180              | <10     | 27300   | 4                  |
| Worthing                | TQ13900210              | 20                | 460             | 10      | 13500   | 2                  | 20                | 190              | <10     | 9800    | 4                  |
| Littlehampton           | TQ04000130              | 20                | 70              | 10      | 3200    | 0                  | 20                | 43               | <10     | 2200    | 1                  |
| Middleton-on-sea        | SZ98509990              | 20                | 53              | <10     | 1100    | 0                  | 20                | 40               | <10     | 1100    | 0                  |
| Bognor Regis            | SZ92309850              | 20                | 235             | 10      | 4200    | 0                  | 20                | 88               | <10     | 1200    | 0                  |
| Pagham                  | SZ89209720              | 20                | 35              | <10     | 5900    | 0                  | 20                | 30               | <10     | 5900    | 1                  |
| Selsey                  | SZ86809370              | 20                | 20              | <10     | 620     | 0                  | 20                | 10               | <10     | 370     | 0                  |
| Bracklesham Bay         | SZ80509630              | 20                | 45              | <10     | 550     | 0                  | 20                | 40               | 9       | 440     | 0                  |
| West Wittering          | SZ76809800              | 20                | 25              | <10     | 660     | 0                  | 20                | 10               | <10     | 660     | 0                  |
| West of Eastoke         | SZ72909840              | 20                | 10              | <10     | 340     | 0                  | 20                | 10               | <10     | 230     | 0                  |
| West Hayling            | SZ70509870              | 20                | 15              | <10     | 90      | 0                  | 20                | 10               | <10     | 80      | 0                  |
| Eastney                 | SZ67509880              | 20                | 50              | <10     | 260     | 0                  | 20                | 20               | <10     | 120     | 0                  |
| Southsea                | SZ65309820              | 20                | 400             | <10     | 14000   | 1                  | 20                | 200              | <10     | 13800   | 2                  |
| Stokes Bay              | SZ60009790              | 20                | 55              | <10     | 500     | 0                  | 20                | 33               | <10     | 460     | 0                  |
| Lee-on-Solent           | SU56200050              | 20                | 83              | 9       | 3700    | 0                  | 20                | 28               | <10     | 650     | 0                  |
| Hillhead                | SU54000220              | 20                | 55              | <10     | 8300    | 0                  | 20                | 25               | <10     | 510     | 0                  |
| Calshot                 | SU48100120              | 20                | 80              | <10     | 2000    | 0                  | 20                | 38               | <10     | 500     | 0                  |

**Section 3**  
**Bathing Waters Survey — 1994 Results (United Kingdom)**  
**Compliance with Bathing Water Directive (76/160/EEC): COLIFORM STANDARDS**

| <b>Southern Region (contd)</b> |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
|--------------------------------|-------------------------|-------------------|-----------------|---------|---------|--------------------|-------------------|------------------|---------|---------|--------------------|
| Bathing Water                  | National Grid Reference | Number of Samples | Total Coliforms |         |         | Number of Failures | Number of Samples | Faecal Coliforms |         |         | Number of Failures |
|                                |                         |                   | Median          | Minimum | Maximum |                    |                   | Median           | Minimum | Maximum |                    |
| Lepe                           | SZ45609850              | 20                | 65              | 10      | 540     | 0                  | 20                | 40               | <10     | 490     | 0                  |
| Milford-on-sea                 | SZ28309150              | 20                | 55              | <10     | 1800    | 0                  | 20                | 33               | <10     | 250     | 0                  |
| Christchurch Bay               | SZ23909280              | 20                | 60              | <10     | 4700    | 0                  | 20                | 35               | <10     | 3800    | 1                  |
| Highcliffe                     | SZ21609310              | 20                | 20              | <10     | 2200    | 0                  | 20                | 10               | <10     | 1100    | 0                  |
| Compton Bay                    | SZ37708410              | 20                | 70              | 10      | 2100    | 0                  | 20                | 53               | <10     | 880     | 0                  |
| Totland Bay                    | SZ32208710              | 20                | 105             | <10     | 6000    | 0                  | 20                | 25               | <10     | 250     | 0                  |
| Colwell Bay                    | SZ32808790              | 20                | 175             | 10      | 20300   | 1                  | 20                | 45               | <10     | 1900    | 0                  |
| Gurnard                        | SZ47709590              | 20                | 255             | 20      | 2800    | 0                  | 20                | 115              | <10     | 1100    | 0                  |
| Cowes                          | SZ48809670              | 20                | 215             | 40      | 1300    | 0                  | 20                | 68               | 10      | 390     | 0                  |
| Ryde                           | SZ60109270              | 20                | 80              | <10     | 29000   | 1                  | 20                | 35               | <10     | 10000   | 1                  |
| Seagrove                       | SZ63209120              | 20                | 80              | <10     | 420     | 0                  | 20                | 50               | <10     | 420     | 0                  |
| St Helens                      | SZ63708920              | 20                | 470             | 40      | 37200   | 1                  | 20                | 105              | 10      | 19800   | 1                  |
| Bembridge                      | SZ65708810              | 20                | 155             | <10     | 4600    | 0                  | 20                | 145              | <10     | 1700    | 0                  |
| Whitecliff Bay                 | SZ64108620              | 20                | 235             | 20      | 6400    | 0                  | 20                | 40               | 10      | 3100    | 1                  |
| Sandown                        | SZ60108430              | 20                | 250             | <10     | 26000   | 1                  | 20                | 155              | <10     | 8400    | 1                  |
| Shanklin                       | SZ58508110              | 20                | 175             | 50      | 28000   | 1                  | 20                | 75               | <10     | 13200   | 1                  |
| Ventnor                        | SZ56207730              | 20                | 1150            | 200     | 107500  | 5                  | 20                | 505              | 55      | 25400   | 5                  |

| <b>South Western Region</b> |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
|-----------------------------|-------------------------|-------------------|-----------------|---------|---------|--------------------|-------------------|------------------|---------|---------|--------------------|
| Bathing Water               | National Grid Reference | Number of Samples | Total Coliforms |         |         | Number of Failures | Number of Samples | Faecal Coliforms |         |         | Number of Failures |
|                             |                         |                   | Median          | Minimum | Maximum |                    |                   | Median           | Minimum | Maximum |                    |
| Christchurch                |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
| Highcliffe Castle           | SZ20009290              | 20                | 58              | <1      | 840     | 0                  | 20                | 25               | <1      | 340     | 0                  |
| Christchurch Friar's Cliff  | SZ19209252              | 20                | 53              | <10     | 1560    | 0                  | 20                | 45               | <10     | 360     | 0                  |
| Christchurch Avon Beach     | SZ18889223              | 20                | 76              | <10     | 4000    | 0                  | 20                | 20               | <10     | 2700    | 1                  |
| Christchurch Mudeford       |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
| Sandbank East               | SZ18259121              | 20                | 15              | <10     | 2600    | 0                  | 20                | 10               | <10     | 1040    | 0                  |
| Bournemouth                 |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
| Hengistbury East            | SZ17009060              | 20                | 8               | <1      | 310     | 0                  | 20                | 3                | <1      | 190     | 0                  |
| Bournemouth                 |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
| Fisherman's Walk            | SZ12809130              | 20                | 46              | <1      | 280     | 0                  | 20                | 19               | <1      | 220     | 0                  |
| Bournemouth                 |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
| Boscombe Pier               | SZ11209110              | 20                | 84              | 7       | 1000    | 0                  | 20                | 82               | 1       | 1300    | 0                  |
| Bournemouth Pier            | SZ08859065              | 21                | 60              | 2       | 13800   | 1                  | 21                | 50               | 2       | 2900    | 1                  |
| Bournemouth                 |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
| Durley Chine                | SZ07859030              | 20                | 16              | <1      | 1100    | 0                  | 20                | 6                | <1      | 800     | 0                  |
| Poole Shore Rd              |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
| Sandbanks                   | SZ05108830              | 20                | 13              | <1      | 1400    | 0                  | 20                | 5                | <1      | 560     | 0                  |
| Poole Harbour Sandbanks     | SZ04908850              | 20                | 8               | <1      | 660     | 0                  | 20                | 12               | <1      | 410     | 0                  |
| Poole Harbour Lake          | SY98329040              | 20                | 140             | 10      | 1170    | 0                  | 20                | 75               | 6       | 700     | 0                  |
| Poole Harbour               |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
| Rockley Sands               | SY97209080              | 20                | 188             | 10      | 6960    | 0                  | 20                | 130              | 6       | 1710    | 0                  |
| Shell Bay North             | SZ03708660              | 20                | 3               | <1      | 80      | 0                  | 20                | 2                | <1      | 65      | 0                  |

### Section 3

#### Bathing Waters Survey — 1994 Results (United Kingdom)

#### Compliance with Bathing Water Directive (76/160/EEC): COLIFORM STANDARDS

| South Western Region (contd) |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
|------------------------------|-------------------------|-------------------|-----------------|---------|---------|--------------------|-------------------|------------------|---------|---------|--------------------|
| Bathing Water                | National Grid Reference | Number of Samples | Total Coliforms |         |         | Number of Failures | Number of Samples | Faecal Coliforms |         |         | Number of Failures |
|                              |                         |                   | Median          | Minimum | Maximum |                    |                   | Median           | Minimum | Maximum |                    |
| Studland Knoll House         | SZ03488353              | 20                | 6               | <1      | 1100    | 0                  | 20                | 7                | <1      | 460     | 0                  |
| Swanage Central              | SZ03297910              | 20                | 74              | <10     | 3660    | 0                  | 20                | 20               | <10     | 1900    | 0                  |
| Kimmeridge Bay               | SY90707905              | 20                | 15              | 1       | 3680    | 0                  | 20                | 10               | <1      | 4700    | 2                  |
| Lulworth Cove                | SY82477995              | 20                | 65              | 10      | 6000    | 0                  | 20                | 45               | <10     | 4000    | 1                  |
| Durdle Door East             | SY80808030              | 20                | 3               | <1      | 50      | 0                  | 20                | 2                | <1      | 32      | 0                  |
| Durdle Door West             | SY80408030              | 20                | 3               | <1      | 20      | 0                  | 20                | 1                | <1      | 7       | 0                  |
| Ringstead Bay                | SY75198132              | 20                | 35              | <10     | 2100    | 0                  | 20                | 10               | <10     | 1400    | 0                  |
| Bowleaze Cove                | SY70428189              | 20                | 20              | <1      | 1360    | 0                  | 20                | 18               | <1      | 800     | 0                  |
| Church Ope Cove              | SY69767100              | 20                | 3               | <1      | 60      | 0                  | 20                | 2                | <1      | 27      | 0                  |
| Weymouth Lodmoor             | SY68806710              | 20                | 28              | <1      | 220     | 0                  | 20                | 11               | <1      | 90      | 0                  |
| Weymouth Central             | SY68107940              | 20                | 15              | 1       | 3000    | 0                  | 20                | 10               | 1       | 620     | 0                  |
| Portland Harbour             |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
| Castle Cove                  | SY67607750              | 20                | 80              | 2       | 500     | 0                  | 20                | 50               | <1      | 700     | 0                  |
| Portland Harbour             |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
| Sandsfoot Castle             | SY67307720              | 20                | 113             | 3       | 1000    | 0                  | 20                | 28               | 1       | 1000    | 0                  |
| West Bay (West)              | SY45909040              | 20                | 35              | 5       | 400     | 0                  | 20                | 17               | 2       | 360     | 0                  |
| Eypemouth                    | SY44689100              | 20                | 27              | <1      | 2070    | 0                  | 20                | 12               | <1      | 672     | 0                  |
| Seatown                      | SY41879165              | 20                | 21              | <1      | 8280    | 0                  | 20                | 14               | <1      | 5220    | 1                  |
| Charmouth West               | SY36309300              | 20                | 138             | 1       | 3900    | 0                  | 20                | 84               | <1      | 3300    | 1                  |
| Lyme Regis Church Beach      | SY34369212              | 0                 | 0               | 0       | 0       | 0                  | 0                 | 0                | 0       | 0       | 0                  |
| Lyme Regis Cobb              | SY33909185              | 20                | 239             | 20      | 1600    | 0                  | 20                | 95               | <2      | 1100    | 0                  |
| Seaton (Devon)               | SY24508985              | 20                | 36              | 2       | 1368    | 0                  | 20                | 23               | 1       | 1260    | 0                  |
| Beer                         | SY23158910              | 20                | 157             | 10      | 35200   | 1                  | 20                | 56               | 5       | 3100    | 2                  |
| Sidmouth Town                | SY12708720              | 20                | 271             | 10      | 7000    | 0                  | 20                | 212              | 10      | 3280    | 3                  |
| Sidmouth Jacobs Ladder       | SY11908695              | 20                | 230             | <10     | 6370    | 0                  | 20                | 76               | <10     | 5100    | 1                  |
| Ladram Bay                   | SY09728515              | 20                | 170             | <10     | 37800   | 1                  | 20                | 102              | <10     | 43000   | 1                  |
| Budleigh Salterton           | SY06958190              | 20                | 202             | <10     | 24800   | 1                  | 20                | 166              | <10     | 11200   | 2                  |
| Sandy Bay                    | SY03357980              | 20                | 276             | <10     | 9000    | 0                  | 20                | 95               | <10     | 4700    | 1                  |
| Exmouth                      | SY00987995              | 20                | 25              | <10     | 5200    | 0                  | 20                | 30               | <10     | 2880    | 1                  |
| Dawlish Warren               | SX98307875              | 20                | 39              | <1      | 800     | 0                  | 20                | 13               | <1      | 800     | 0                  |
| Dawlish Town                 | SX96557680              | 20                | 175             | 10      | 2000    | 0                  | 20                | 111              | <10     | 2240    | 1                  |
| Dawlish Coryton Cove         | SX96117606              | 20                | 105             | 1       | 5700    | 0                  | 20                | 40               | <1      | 2430    | 1                  |
| Teignmouth Holcombe          | SX95657461              | 20                | 111             | <10     | 6600    | 0                  | 21                | 50               | 5       | 51600   | 2                  |
| Teignmouth Town              | SX94307285              | 20                | 126             | 1       | 3900    | 0                  | 20                | 70               | 2       | 3000    | 1                  |
| Shaldon                      | SX93507230              | 20                | 117             | <10     | 980     | 0                  | 20                | 89               | <10     | 540     | 0                  |
| Ness Cove                    | SX93857170              | 20                | 18              | 3       | 300     | 0                  | 20                | 15               | <1      | 360     | 0                  |
| Maidencombe                  | SX92786850              | 20                | 21              | 2       | 320     | 0                  | 20                | 19               | 2       | 207     | 0                  |
| Watcombe                     | SX92626730              | 20                | 19              | <1      | 610     | 0                  | 20                | 13               | 2       | 590     | 0                  |
| Oddicombe                    | SX92656585              | 20                | 13              | <1      | 300     | 0                  | 20                | 13               | <1      | 260     | 0                  |
| Babbacombe                   | SX93006545              | 20                | 42              | <1      | 15300   | 1                  | 20                | 52               | <1      | 16600   | 1                  |
| Redgate                      | SX93506480              | 20                | 60              | 7       | 1980    | 0                  | 20                | 10               | 6       | 1170    | 0                  |
| Meadfoot                     | SX93056305              | 20                | 35              | <1      | 2520    | 0                  | 20                | 17               | <1      | 910     | 0                  |
| Beacon Cove                  | SX91956307              | 20                | 15              | 1       | 1600    | 0                  | 20                | 10               | <1      | 1200    | 0                  |



**Section 3**  
**Bathing Waters Survey — 1994 Results (United Kingdom)**  
**Compliance with Bathing Water Directive (76/160/EEC): COLIFORM STANDARDS**

| <b>South Western Region (contd)</b> |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
|-------------------------------------|-------------------------|-------------------|-----------------|---------|---------|--------------------|-------------------|------------------|---------|---------|--------------------|
| Bathing Water                       | National Grid Reference | Number of Samples | Total Coliforms |         |         | Number of Failures | Number of Samples | Faecal Coliforms |         |         | Number of Failures |
|                                     |                         |                   | Median          | Minimum | Maximum |                    |                   | Median           | Minimum | Maximum |                    |
| Torre Abbey                         | SX90956351              | 20                | 60              | 6       | 8280    | 0                  | 20                | 24               | 4       | 4100    | 1                  |
| Hollicombe                          | SX89806215              | 20                | 34              | <10     | 1100    | 0                  | 20                | 20               | 7       | 640     | 0                  |
| Paignton Preston Sands              | SX89646177              | 20                | 89              | 1       | 8160    | 0                  | 20                | 43               | <1      | 4860    | 1                  |
| Paignton Paignton Sands             | SX89496063              | 20                | 234             | 3       | 4590    | 0                  | 20                | 159              | 3       | 2720    | 2                  |
| Goodrington                         | SX89355940              | 20                | 59              | 7       | 4230    | 0                  | 20                | 24               | 2       | 3700    | 1                  |
| Broadsands                          | SX89705745              | 20                | 130             | <1      | 8200    | 0                  | 20                | 75               | <1      | 6100    | 2                  |
| Shoalstone                          | SX93205662              | 20                | 20              | <1      | 2800    | 0                  | 20                | 11               | <1      | 660     | 0                  |
| St Mary's Bay                       | SX93205510              | 20                | 80              | 10      | 3000    | 0                  | 20                | 55               | <10     | 3240    | 1                  |
| Dartmouth Castle and Sugary Cove    | SX88655020              | 20                | 158             | 10      | 3600    | 0                  | 20                | 96               | <10     | 2200    | 1                  |
| Blackpool Sands                     | SX85504785              | 20                | 21              | <1      | 126     | 0                  | 20                | 7                | <1      | 100     | 0                  |
| Slapton Sands Monument              | SX82954430              | 20                | 8               | 1       | 1400    | 0                  | 20                | 3                | <1      | 950     | 0                  |
| Slapton Sands Torcross              | SX82354195              | 20                | 24              | 1       | 2560    | 0                  | 20                | 11               | <1      | 1980    | 0                  |
| Mill Bay                            | SX74073825              | 20                | 30              | 5       | 1300    | 0                  | 20                | 26               | 4       | 500     | 0                  |
| Salcombe North Sands                | SX73103820              | 20                | 252             | 10      | 1700    | 0                  | 20                | 130              | <10     | 800     | 0                  |
| Salcombe South Sands                | SX72853775              | 20                | 750             | <10     | 5000    | 0                  | 20                | 286              | <10     | 1750    | 0                  |
| Hope Cove                           | SX67553975              | 20                | 95              | 14      | 6300    | 0                  | 20                | 64               | 3       | 3510    | 1                  |
| Thurlestone South                   | SX67654170              | 20                | 6               | <1      | 250     | 0                  | 20                | 5                | <1      | 152     | 0                  |
| Thurlestone North                   | SX67404210              | 20                | 30              | <1      | 1500    | 0                  | 20                | 22               | <1      | 280     | 0                  |
| Bantham                             | SX66234380              | 20                | 49              | 2       | 7800    | 0                  | 20                | 25               | <1      | 530     | 0                  |
| Bigbury-on-Sea South                | SX65104415              | 20                | 30              | <1      | 1700    | 0                  | 20                | 15               | <1      | 600     | 0                  |
| Bigbury-on-Sea North                | SX64954430              | 20                | 17              | <1      | 420     | 0                  | 20                | 10               | <1      | 260     | 0                  |
| Challaborough                       | SX64924480              | 20                | 24              | <1      | 900     | 0                  | 20                | 11               | <1      | 250     | 0                  |
| Mothecombe                          | SX61054734              | 20                | 102             | <10     | 7700    | 0                  | 20                | 31               | <10     | 4400    | 2                  |
| Wembury                             | SX51604850              | 20                | 40              | <10     | 1400    | 0                  | 20                | 10               | 7       | 333     | 0                  |
| Bovisand                            | SX49305050              | 20                | 64              | <10     | 470     | 0                  | 20                | 30               | <10     | 580     | 0                  |
| Plymouth Hoe East                   | SX47805370              | 20                | 616             | <10     | 19800   | 1                  | 20                | 280              | <10     | 4050    | 3                  |
| Plymouth Hoe West                   | SX47505370              | 20                | 550             | 40      | 25000   | 3                  | 20                | 298              | 10      | 5700    | 4                  |
| Portwrinkle                         | SX35905380              | 20                | 20              | <1      | 1400    | 0                  | 20                | 8                | <1      | 960     | 0                  |
| Downderry                           | SX31405380              | 20                | 11              | 1       | 800     | 0                  | 20                | 8                | <1      | 600     | 0                  |
| Seaton (Cornwall)                   | SX30305430              | 20                | 27              | 1       | 2400    | 0                  | 20                | 16               | <1      | 1400    | 0                  |
| Millendreath                        | SX26805410              | 20                | 312             | 6       | 22000   | 1                  | 20                | 150              | 1       | 6440    | 1                  |
| East Looe                           | SX25705320              | 20                | 88              | <1      | 7290    | 0                  | 20                | 58               | <1      | 5040    | 1                  |
| Readymoney                          | SX11805110              | 20                | 1160            | 104     | 3600    | 0                  | 20                | 620              | 72      | 2500    | 1                  |
| Polkerris                           | SX09105230              | 20                | 29              | 1       | 2000    | 0                  | 20                | 21               | <1      | 1800    | 0                  |
| Par                                 | SX08305330              | 20                | 96              | 1       | 1190    | 0                  | 20                | 58               | <1      | 500     | 0                  |
| Crinnis Golf Links                  | SX06305220              | 20                | 21              | <1      | 800     | 0                  | 20                | 22               | 1       | 700     | 0                  |
| Crinnis Leisure Centre              | SX05605210              | 20                | 5               | <1      | 160     | 0                  | 20                | 3                | <1      | 63      | 0                  |
| Charlestown                         | SX04205160              | 20                | 6               | <1      | 73      | 0                  | 20                | 4                | <1      | 48      | 0                  |
| Duporth                             | SX03505120              | 20                | 6               | <1      | 200     | 0                  | 20                | 6                | <1      | 52      | 0                  |
| Porthpean                           | SX03205070              | 20                | 7               | <1      | 100     | 0                  | 20                | 4                | <1      | 84      | 0                  |

### Section 3

#### Bathing Waters Survey — 1994 Results (United Kingdom)

#### Compliance with Bathing Water Directive (76/160/EEC): COLIFORM STANDARDS

| South Western Region (contd) |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
|------------------------------|-------------------------|-------------------|-----------------|---------|---------|--------------------|-------------------|------------------|---------|---------|--------------------|
| Bathing Water                | National Grid Reference | Number of Samples | Total Coliforms |         |         | Number of Failures | Number of Samples | Faecal Coliforms |         |         | Number of Failures |
|                              |                         |                   | Median          | Minimum | Maximum |                    |                   | Median           | Minimum | Maximum |                    |
| Pentewan                     | SX01804670              | 20                | 73              | 3       | 3400    | 0                  | 20                | 54               | 1       | 1500    | 0                  |
| Polstreath                   | SX01704540              | 20                | 75              | 10      | 13000   | 1                  | 20                | 52               | 1       | 5600    | 1                  |
| Port Mellon                  | SX01604390              | 20                | 27              | 1       | 1400    | 0                  | 20                | 27               | <1      | 500     | 0                  |
| Gorran Haven                 |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
| Little Perhaver              | SX01304170              | 20                | 185             | 10      | 1890    | 0                  | 20                | 89               | 1       | 1800    | 0                  |
| Gorran Haven (Vault)         | SX01004080              | 20                | 3               | <1      | 300     | 0                  | 20                | 2                | <1      | 75      | 0                  |
| Porthluney                   | SW97304130              | 20                | 74              | 1       | 1400    | 0                  | 20                | 57               | <1      | 1200    | 0                  |
| Pendower                     | SW90503830              | 20                | 56              | <1      | 8100    | 0                  | 20                | 24               | <1      | 3360    | 1                  |
| Gyllyngvase                  | SW80903160              | 20                | 21              | 1       | 1100    | 0                  | 20                | 10               | 1       | 400     | 0                  |
| Swanpool                     | SW80303130              | 20                | 50              | <1      | 2200    | 0                  | 20                | 21               | <1      | 1300    | 0                  |
| Maen Porth                   | SW79002960              | 20                | 100             | <1      | 9400    | 0                  | 20                | 67               | <1      | 8000    | 1                  |
| Porthallow                   | SW79702330              | 20                | 550             | 5       | 36000   | 2                  | 20                | 197              | <1      | 28000   | 4                  |
| Porthoustock                 | SW80702170              | 20                | 5               | <1      | 910     | 0                  | 20                | 2                | <1      | 1000    | 0                  |
| Coverack                     | SW78301840              | 20                | 30              | 5       | 60000   | 1                  | 20                | 27               | <1      | 18000   | 2                  |
| Kennack Sands                | SW73401650              | 20                | 12              | <1      | 400     | 0                  | 20                | 10               | <1      | 360     | 0                  |
| Pollurian Cove               | SW66801870              | 20                | 34              | <1      | 1680    | 0                  | 20                | 16               | <1      | 1520    | 0                  |
| Poldhu Cove                  | SW66501980              | 20                | 34              | <1      | 5400    | 0                  | 20                | 28               | <1      | 1360    | 0                  |
| Gunwalloe Cove               | SW65402250              | 20                | 4               | <1      | 102     | 0                  | 20                | 3                | <1      | 54      | 0                  |
| Porthleven West              | SW63202530              | 20                | 112             | <1      | 12000   | 1                  | 20                | 48               | <1      | 5300    | 2                  |
| Praa Sands East              | SW58502760              | 20                | 11              | <1      | 360     | 0                  | 20                | 8                | <1      | 152     | 0                  |
| Praa Sands West              | SW57702810              | 20                | 9               | <1      | 5000    | 0                  | 20                | 7                | <1      | 1100    | 0                  |
| Perran Sands                 | SW53902930              | 20                | 14              | <1      | 81      | 0                  | 20                | 11               | <1      | 45      | 0                  |
| Mounts Bay L Holgus          | SW51303100              | 20                | 101             | 6       | 9400    | 0                  | 20                | 54               | 2       | 800     | 0                  |
| Mounts Bay Heliport          | SW48503110              | 12                | 450             | 3       | 20000   | 1                  | 12                | 320              | <1      | 11000   | 2                  |
| Mounts Bay Penzance          | SW47502980              | 20                | 124             | 6       | 20000   | 3                  | 20                | 82               | <1      | 15000   | 3                  |
| Mounts Bay Wherry Town       | SW46702940              | 20                | 2495            | 52      | 120000  | 6                  | 20                | 1405             | 12      | 96000   | 9                  |
| Porthcurno                   | SW38702230              | 20                | 31              | <1      | 1800    | 0                  | 20                | 12               | <1      | 910     | 0                  |
| Sennen                       | SW35522645              | 20                | 38              | <1      | 520     | 0                  | 20                | 28               | <1      | 280     | 0                  |
| Porthmeor                    | SW51504103              | 20                | 50              | 1       | 12000   | 1                  | 20                | 27               | <1      | 3000    | 1                  |
| Porth Gwidden                | SW52204110              | 20                | 440             | 9       | 9000    | 0                  | 20                | 131              | 2       | 6400    | 2                  |
| Porthminster                 | SW52204025              | 20                | 112             | 1       | 8100    | 0                  | 20                | 49               | <1      | 5280    | 2                  |
| Carbis Bay Station Beach     | SW52803890              | 20                | 35              | 5       | 2500    | 0                  | 20                | 23               | <1      | 1800    | 0                  |
| Carbis Bay                   |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
| Porth Kidney Sands           | SW54003850              | 20                | 18              | <1      | 14000   | 1                  | 20                | 11               | <1      | 12000   | 1                  |
| The Towans (Hayle)           | SW56303950              | 20                | 98              | 1       | 480     | 0                  | 20                | 31               | <1      | 160     | 0                  |
| The Towans (Godrevy)         | SW58104170              | 20                | 63              | 8       | 6300    | 0                  | 20                | 19               | 1       | 4200    | 1                  |
| Portreath                    | SW65304550              | 20                | 70              | 2       | 1200    | 0                  | 20                | 38               | 2       | 1260    | 0                  |
| Porthtowan                   | SW68904790              | 20                | 51              | 2       | 1300    | 0                  | 20                | 33               | 1       | 900     | 0                  |
| Trevaunance Cove             | SW72305170              | 20                | 270             | 90      | 6300    | 0                  | 20                | 133              | 34      | 4100    | 5                  |
| Perranporth Village End      | SW75705480              | 20                | 216             | 10      | 2400    | 0                  | 20                | 140              | 5       | 1500    | 0                  |
| Perranporth                  |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
| Penhale Sands                | SW76205700              | 20                | 30              | <1      | 1000    | 0                  | 20                | 15               | <1      | 500     | 0                  |
| Holywell Bay                 | SW76505950              | 20                | 52              | <1      | 3200    | 0                  | 20                | 40               | <1      | 1900    | 0                  |

**Section 3**  
**Bathing Waters Survey — 1994 Results (United Kingdom)**  
**Compliance with Bathing Water Directive (76/160/EEC): COLIFORM STANDARDS**

| <b>South Western Region (contd)</b> |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
|-------------------------------------|-------------------------|-------------------|-----------------|---------|---------|--------------------|-------------------|------------------|---------|---------|--------------------|
| Bathing Water                       | National Grid Reference | Number of Samples | Total Coliforms |         |         | Number of Failures | Number of Samples | Faecal Coliforms |         |         | Number of Failures |
|                                     |                         |                   | Median          | Minimum | Maximum |                    |                   | Median           | Minimum | Maximum |                    |
| Crantock                            | SW78406080              | 20                | 108             | 8       | 4700    | 0                  | 20                | 42               | <1      | 1710    | 0                  |
| Fistral                             | SW79606230              | 20                | 33              | 2       | 1530    | 0                  | 20                | 25               | 2       | 1040    | 0                  |
| Towan                               | SW81006205              | 20                | 114             | 4       | 4320    | 0                  | 20                | 70               | 3       | 2340    | 1                  |
| Watergate                           | SW84106490              | 20                | 63              | 12      | 12000   | 1                  | 20                | 39               | 8       | 7600    | 1                  |
| Mawgan Porth                        | SW84806740              | 20                | 50              | 2       | 2700    | 0                  | 20                | 29               | 1       | 1800    | 0                  |
| Porthcothan                         | SW85707202              | 20                | 50              | 1       | 7200    | 0                  | 20                | 31               | 2       | 3870    | 1                  |
| Treyarnon Bay                       | SW85707390              | 20                | 14              | <1      | 600     | 0                  | 20                | 11               | <1      | 500     | 0                  |
| Constantine Bay                     | SW85807480              | 20                | 4               | <1      | 200     | 0                  | 20                | 3                | <1      | 200     | 0                  |
| Mother Ivey's Bay                   | SW86307600              | 20                | 45              | 2       | 880     | 0                  | 20                | 17               | <1      | 360     | 0                  |
| Harlyn Bay                          | SW87707550              | 20                | 24              | <1      | 600     | 0                  | 20                | 13               | <1      | 500     | 0                  |
| Trevone Bay                         | SW89207610              | 20                | 200             | 19      | 2000    | 0                  | 20                | 102              | 9       | 1600    | 0                  |
| Rock                                | SW93607550              | 20                | 47              | 3       | 600     | 0                  | 20                | 37               | 2       | 208     | 0                  |
| Daymer Bay                          | SW92807760              | 20                | 23              | 1       | 700     | 0                  | 20                | 16               | <1      | 700     | 0                  |
| Polzeath                            | SW93607920              | 20                | 100             | 2       | 1800    | 0                  | 20                | 39               | <1      | 1280    | 0                  |
| Widemouth Sand                      | SS19800240              | 20                | 9               | <1      | 7000    | 0                  | 20                | 5                | <1      | 4600    | 1                  |
| Bude Summerleaze                    | SS20400660              | 20                | 36              | <1      | 2400    | 0                  | 20                | 14               | <1      | 1890    | 0                  |
| Bude Crooklets                      | SS20300720              | 20                | 13              | <1      | 11300   | 1                  | 20                | 5                | <1      | 4700    | 1                  |
| Bude Sandy Mouth                    | SS20200990              | 20                | 4               | <1      | 250     | 0                  | 20                | 3                | <1      | 180     | 0                  |
| Hartland Quay                       | SS22302485              | 20                | 20              | <10     | 243     | 0                  | 20                | 10               | <1      | 144     | 0                  |
| Westward Ho!                        | SS43252940              | 20                | 38              | 3       | 1620    | 0                  | 20                | 25               | 1       | 1100    | 0                  |
| Instow                              | SS47173044              | 20                | 400             | 10      | 9000    | 0                  | 20                | 263              | <10     | 7600    | 5                  |
| Saunton Sands                       | SS44553760              | 20                | 55              | 1       | 2240    | 0                  | 20                | 21               | <1      | 700     | 0                  |
| Croyde Bay                          | SS43473930              | 20                | 50              | <10     | 2300    | 0                  | 20                | 15               | <10     | 1350    | 0                  |
| Woolacombe Putsborough              | SS44754085              | 20                | 5               | <1      | 300     | 0                  | 20                | 3                | <1      | 260     | 0                  |
| Woolacombe Village                  | SS45624370              | 20                | 23              | <1      | 756     | 0                  | 20                | 14               | <1      | 210     | 0                  |
| Ilfracombe Tunnels Beach            | SS51454780              | 20                | 202             | 6       | 2790    | 0                  | 20                | 129              | 3       | 2250    | 1                  |
| Ilfracombe Capstone (Wildersmouth)  | SS51824790              | 20                | 700             | 30      | 7700    | 0                  | 20                | 389              | 20      | 3500    | 1                  |
| Ilfracombe Hele                     | SS53554792              | 20                | 850             | 30      | 8800    | 0                  | 20                | 490              | <10     | 9100    | 3                  |
| Combe Martin                        | SS57724732              | 20                | 1060            | 40      | 29600   | 1                  | 20                | 465              | 10      | 19000   | 2                  |
| Lynmouth                            | SS72504975              | 20                | 292             | <10     | 26100   | 1                  | 20                | 214              | <10     | 12800   | 4                  |
| Porlock Weir                        | SS86404790              | 21                | 30              | <10     | 700     | 0                  | 21                | 20               | <10     | 558     | 0                  |
| Minehead Terminus                   | SS97304650              | 21                | 153             | 40      | 2220    | 0                  | 21                | 88               | 10      | 1800    | 0                  |
| Dunster North West                  | SS99704550              | 21                | 225             | 40      | 1800    | 0                  | 21                | 120              | 10      | 700     | 0                  |
| Blue Anchor West                    | ST02304350              | 21                | 234             | 40      | 1500    | 0                  | 21                | 120              | 30      | 1700    | 0                  |
| Burnham Jetty                       | ST30204880              | 20                | 655             | 216     | 2200    | 0                  | 21                | 360              | 60      | 1000    | 0                  |
| Berrow North of Unity Farm          | ST29305450              | 22                | 356             | 91      | 3100    | 0                  | 22                | 176              | 20      | 2300    | 1                  |
| Brean                               | ST29605850              | 22                | 399             | 20      | 3600    | 0                  | 22                | 147              | <10     | 2100    | 1                  |
| Weston-s-Mare Uphill Slipway        | ST31205880              | 23                | 208             | 50      | 15000   | 1                  | 23                | 210              | 10      | 5600    | 2                  |
| Weston-s-Mare Main                  | ST31606070              | 23                | 280             | 30      | 5000    | 0                  | 23                | 198              | 30      | 2400    | 1                  |
| Weston-s-Mare Sand Bay              | ST33006350              | 22                | 500             | 60      | 3100    | 0                  | 22                | 237              | 20      | 2800    | 1                  |
| Clevedon Beach                      | ST39807120              | 22                | 600             | 140     | 1800    | 0                  | 22                | 369              | 60      | 1020    | 0                  |



### Section 3

#### Bathing Waters Survey — 1994 Results (United Kingdom)

#### Compliance with Bathing Water Directive (76/160/EEC): COLIFORM STANDARDS

| Welsh Region         |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
|----------------------|-------------------------|-------------------|-----------------|---------|---------|--------------------|-------------------|------------------|---------|---------|--------------------|
| Bathing Water        | National Grid Reference | Number of Samples | Total Coliforms |         |         | Number of Failures | Number of Samples | Faecal Coliforms |         |         | Number of Failures |
|                      |                         |                   | Median          | Minimum | Maximum |                    |                   | Median           | Minimum | Maximum |                    |
| Jacksons Bay Barry   | ST12206657              | 20                | 2550            | 200     | >300000 | 2                  | 20                | 575              | 40      | >300000 | 4                  |
| Whitmore Bay Barry   | ST11456625              | 20                | 1400            | 150     | 5000    | 0                  | 20                | 370              | 60      | 3000    | 2                  |
| Cold Knap Barry      | ST09656640              | 20                | 490             | 120     | 3000    | 0                  | 20                | 205              | 30      | 3000    | 1                  |
| Southerndown         | SS88407290              | 20                | 375             | 40      | 6000    | 0                  | 20                | 265              | 20      | 2000    | 0                  |
| Trecco Bay Porthcawl | SS83107630              | 20                | 145             | 20      | 1400    | 0                  | 20                | 65               | <10     | 700     | 0                  |
| Sandy Bay Porthcawl  | SS82407650              | 20                | 145             | 20      | 1100    | 0                  | 20                | 70               | <10     | 310     | 0                  |
| Rest Bay Porthcawl   | SS80007790              | 20                | 150             | <10     | 1120    | 0                  | 20                | 55               | <10     | 360     | 0                  |
| Aberafan             | SS73908960              | 20                | 200             | <10     | 8800    | 0                  | 20                | 100              | <10     | 3400    | 1                  |
| Swansea Bay          | SS64409210              | 20                | 750             | 80      | 11500   | 1                  | 20                | 245              | 30      | 2800    | 1                  |
| Bracelet Bay         | SS63008710              | 20                | 600             | 40      | 3800    | 0                  | 20                | 330              | <10     | 1800    | 0                  |
| Limeslade Bay        | SS62508700              | 20                | 595             | 90      | 14000   | 2                  | 20                | 300              | 20      | 4500    | 3                  |
| Langland Bay         | SS60608710              | 20                | 290             | 30      | 1600    | 0                  | 20                | 165              | 10      | 1100    | 0                  |
| Caswell Bay          | SS59108740              | 20                | 140             | 20      | 4500    | 0                  | 20                | 40               | <10     | 3000    | 1                  |
| Oxwich Bay           | SS50708620              | 20                | 30              | <10     | 360     | 0                  | 20                | 15               | <10     | 220     | 0                  |
| Port Eynon Bay       | SS47208480              | 20                | 30              | <10     | 300     | 0                  | 20                | 15               | <10     | 280     | 0                  |
| Rhossili             | SS41409000              | 20                | 25              | <10     | 250     | 0                  | 20                | 10               | <10     | 220     | 0                  |
| Pembrey              | SS40009980              | 20                | 100             | 10      | 4000    | 0                  | 20                | 40               | <10     | 2200    | 1                  |
| Pendine              | SN23800740              | 20                | 195             | <10     | 4000    | 0                  | 20                | 120              | <10     | 4000    | 1                  |
| Amroth               | SN16700680              | 20                | 140             | 10      | 3000    | 0                  | 20                | 85               | <10     | 1500    | 0                  |
| Saundersfoot         | SN14100470              | 20                | 2100            | 90      | 17600   | 2                  | 20                | 530              | 30      | 5700    | 4                  |
| Tenby North          | SN13450080              | 20                | 90              | 10      | 4000    | 0                  | 20                | 45               | <10     | 2700    | 1                  |
| Tenby South          | SS13259985              | 20                | 115             | <10     | 3200    | 0                  | 20                | 60               | <10     | 1400    | 0                  |
| Broadhaven           | SM86101380              | 20                | 120             | <10     | 16000   | 1                  | 20                | 60               | <10     | 9200    | 3                  |
| Newgale              | SM84602170              | 20                | 25              | <10     | 5000    | 0                  | 20                | 10               | <10     | 2400    | 1                  |
| Whitesands           | SM73002700              | 20                | 20              | <10     | 2000    | 0                  | 20                | 10               | <10     | 1600    | 0                  |
| Newport              | SN05304070              | 20                | 125             | <10     | 12000   | 1                  | 20                | 70               | <10     | 8000    | 2                  |
| Traeth Gwyn New Quay | SN39805970              | 20                | 45              | <10     | 11000   | 1                  | 20                | 30               | <10     | 4000    | 2                  |
| Aberystwyth South    | SN57908140              | 20                | 580             | 110     | 20000   | 3                  | 20                | 280              | 10      | 11200   | 4                  |
| Aberystwyth North    | SN58308220              | 20                | 400             | 20      | 2100    | 0                  | 20                | 245              | 10      | 820     | 0                  |
| Borth                | SN60609010              | 20                | 25              | <10     | 8000    | 0                  | 20                | 20               | <10     | 280     | 0                  |
| Aberdyfi             | SN60729580              | 20                | 104             | 0       | 4500    | 0                  | 20                | 48               | 0       | 2400    | 1                  |
| Tywyn                | SH57670032              | 20                | 58              | 0       | 1760    | 0                  | 20                | 50               | 0       | 1600    | 0                  |
| Fairbourne           | SH60911307              | 20                | 20              | 0       | 512     | 0                  | 20                | 19               | 0       | 410     | 0                  |
| Barmouth             | SH60841590              | 20                | 45              | 0       | 1280    | 0                  | 20                | 30               | 0       | 544     | 0                  |
| Llandanwg            | SH56692818              | 20                | 135             | 2       | 2070    | 0                  | 20                | 48               | 0       | 1032    | 0                  |
| Harlech              | SH56763148              | 20                | 103             | 0       | 1088    | 0                  | 20                | 55               | 0       | 600     | 0                  |
| Morfa Bychan         | SH54213595              | 20                | 1199            | 1       | 12080   | 2                  | 20                | 500              | 0       | 6800    | 2                  |
| Criccieth            | SH50333807              | 20                | 1456            | 126     | 23000   | 1                  | 20                | 450              | 20      | 19500   | 3                  |
| Pwllheli             | SH37103407              | 20                | 30              | 0       | 520     | 0                  | 20                | 10               | 0       | 160     | 0                  |
| Abersoch             | SH31682772              | 20                | 34              | 0       | 306     | 0                  | 20                | 17               | 0       | 160     | 0                  |
| Morfa Dinlle         | SH43495669              | 20                | 47              | 0       | 270     | 0                  | 20                | 20               | 0       | 220     | 0                  |
| Rhosneigr            | SH32377212              | 20                | 10              | 0       | 140     | 0                  | 20                | 10               | 0       | 70      | 0                  |
| Trearddur Bay        | SH25567891              | 20                | 51              | 4       | 5400    | 0                  | 20                | 23               | 2       | 4300    | 1                  |



### Section 3

#### Bathing Waters Survey — 1994 Results (United Kingdom)

#### Compliance with Bathing Water Directive (76/160/EEC): COLIFORM STANDARDS

| Welsh Region (contd)    |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
|-------------------------|-------------------------|-------------------|-----------------|---------|---------|--------------------|-------------------|------------------|---------|---------|--------------------|
| Bathing Water           | National Grid Reference | Number of Samples | Total Coliforms |         |         | Number of Failures | Number of Samples | Faecal Coliforms |         |         | Number of Failures |
|                         |                         |                   | Median          | Minimum | Maximum |                    |                   | Median           | Minimum | Maximum |                    |
| Benllech                | SH52688256              | 20                | 214             | 7       | 6800    | 0                  | 20                | 88               | 1       | 5200    | 1                  |
| Llandudno West Shore    | SH76558165              | 20                | 137             | 3       | 18300   | 1                  | 20                | 100              | 0       | 11300   | 2                  |
| Llandudno North Shore   | SH79188227              | 20                | 131             | 10      | 1680    | 0                  | 20                | 58               | 4       | 825     | 0                  |
| Colwyn Bay              | SH85847917              | 20                | 246             | 20      | 2460    | 0                  | 20                | 115              | 10      | 2020    | 1                  |
| Kinmel Bay (Sandy Cove) | SH97808060              | 20                | 104             | 13      | 880     | 0                  | 20                | 54               | 0       | 535     | 0                  |
| Rhyl                    | SJ00208260              | 20                | 279             | 0       | 11760   | 1                  | 20                | 170              | 0       | 4400    | 1                  |
| Prestatyn               | SJ05408390              | 21                | 180             | 12      | 10600   | 1                  | 21                | 60               | 4       | 4240    | 2                  |
| West Kirby              | SJ21008680              | 20                | 560             | 2       | 7500    | 0                  | 20                | 290              | 0       | 3600    | 1                  |

| North West Region       |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
|-------------------------|-------------------------|-------------------|-----------------|---------|---------|--------------------|-------------------|------------------|---------|---------|--------------------|
| Bathing Water           | National Grid Reference | Number of Samples | Total Coliforms |         |         | Number of Failures | Number of Samples | Faecal Coliforms |         |         | Number of Failures |
|                         |                         |                   | Median          | Minimum | Maximum |                    |                   | Median           | Minimum | Maximum |                    |
| Meols                   | SJ23009060              | 20                | 133             | 26      | 2800    | 0                  | 20                | 54               | 0       | 800     | 0                  |
| Moreton                 | SJ25709180              | 20                | 45              | 8       | 1280    | 0                  | 20                | 20               | 0       | 960     | 0                  |
| New Brighton            | SJ28709370              | 20                | 215             | 48      | 2140    | 0                  | 20                | 94               | 8       | 1720    | 0                  |
| Formby                  | SD27701000              | 20                | 400             | 8       | 2800    | 0                  | 20                | 210              | 0       | 900     | 0                  |
| Ainsdale                | SD29701290              | 20                | 235             | 12      | 3900    | 0                  | 20                | 105              | 0       | 3300    | 1                  |
| Southport               | SD32201790              | 20                | 830             | 40      | 6200    | 0                  | 20                | 315              | 26      | 2800    | 1                  |
| St Annes                | SD31802830              | 20                | 1400            | 130     | 9000    | 0                  | 20                | 505              | 6       | 4100    | 3                  |
| St Annes North          | SD30403050              | 20                | 1700            | 120     | 8000    | 0                  | 20                | 475              | 26      | 5000    | 2                  |
| Blackpool South         | SD30403380              | 20                | 1550            | 580     | 6000    | 0                  | 20                | 775              | 180     | 4700    | 2                  |
| Blackpool Central       | SD30603560              | 20                | 935             | 86      | 3500    | 0                  | 20                | 750              | 23      | 2200    | 1                  |
| Blackpool North         | SD30503640              | 20                | 920             | 80      | 6000    | 0                  | 20                | 290              | 12      | 3000    | 1                  |
| Bispham                 | SD30703970              | 20                | 700             | 220     | 4500    | 0                  | 20                | 360              | 46      | 2500    | 1                  |
| Cleveleys               | SD31204330              | 20                | 700             | 140     | 28200   | 1                  | 20                | 380              | 36      | 12000   | 1                  |
| Fleetwood               | SD33604850              | 20                | 1075            | 270     | 5000    | 0                  | 20                | 640              | 180     | 6000    | 3                  |
| Heysham - Half Moon Bay | SD41306180              | 20                | 436             | 150     | 1800    | 0                  | 20                | 146              | 10      | 1420    | 0                  |
| Morecambe South         | SD42206360              | 20                | 565             | 60      | 4200    | 0                  | 20                | 225              | 0       | 2360    | 1                  |
| Morecambe North         | SD44106500              | 20                | 1600            | 350     | 4800    | 0                  | 20                | 610              | 90      | 2200    | 2                  |
| Bardsea                 | SD30007400              | 20                | 2050            | 83      | 5200    | 0                  | 20                | 750              | 70      | 2200    | 1                  |
| Aldingham               | SD28307090              | 20                | 400             | 24      | 2100    | 0                  | 20                | 235              | 19      | 2500    | 1                  |
| Newbiggin               | SD27306940              | 20                | 690             | 80      | 15000   | 1                  | 20                | 385              | 30      | 1700    | 0                  |
| Walney Biggar Bank      | SD17806730              | 20                | 41              | 15      | 1500    | 0                  | 20                | 24               | 1       | 2000    | 0                  |
| Walney Sandy Gap        | SD17506810              | 20                | 71              | 10      | 1680    | 0                  | 20                | 30               | 0       | 450     | 0                  |
| Walney West Shore       | SD17007000              | 20                | 560             | 18      | 12600   | 1                  | 20                | 210              | 10      | 9500    | 2                  |
| Roan Head               | SD19807580              | 20                | 850             | 20      | 5600    | 0                  | 20                | 232              | 0       | 2500    | 2                  |
| Askam-in-Furness        | SD20907820              | 20                | 1250            | 180     | 9100    | 0                  | 20                | 550              | 0       | 3000    | 1                  |

Section 3  
 Bathing Waters Survey — 1994 Results (United Kingdom)  
 Compliance with Bathing Water Directive (76/160/EEC): COLIFORM STANDARDS

| North West Region (contd) |                         |                   |                 |         |         |                    |                   |                  |         |         |                    |
|---------------------------|-------------------------|-------------------|-----------------|---------|---------|--------------------|-------------------|------------------|---------|---------|--------------------|
| Bathing Water             | National Grid Reference | Number of Samples | Total Coliforms |         |         | Number of Failures | Number of Samples | Faecal Coliforms |         |         | Number of Failures |
|                           |                         |                   | Median          | Minimum | Maximum |                    |                   | Median           | Minimum | Maximum |                    |
| Haverigg                  | SD16007780              | 20                | 890             | 58      | 6800    | 0                  | 20                | 355              | 0       | 1600    | 0                  |
| Silecroft                 | SD12008120              | 20                | 130             | 4       | 800     | 0                  | 20                | 48               | 0       | 300     | 0                  |
| Seascale                  | NY03400100              | 20                | 1090            | 33      | 5200    | 0                  | 20                | 520              | 14      | 3700    | 2                  |
| St Bees                   | NX95901170              | 20                | 425             | 80      | 2600    | 0                  | 20                | 280              | 25      | 1900    | 0                  |
| Allonby South             | NY06604060              | 20                | 980             | 15      | 5400    | 0                  | 20                | 530              | 4       | 3600    | 2                  |
| Allonby                   | NY07804240              | 20                | 730             | 38      | 3600    | 0                  | 20                | 280              | 0       | 2280    | 1                  |
| Silloth                   | NY09405280              | 20                | 295             | 20      | 2000    | 0                  | 20                | 150              | 6       | 1600    | 0                  |
| Skinburness               | NY12605650              | 20                | 620             | 36      | 2600    | 0                  | 20                | 170              | 0       | 2200    | 1                  |

**Section 4**  
**Bathing Waters Survey — 1994 Results (United Kingdom)**  
**Compliance with Bathing Water Directive (76/160/EEC): Other Parameters**

| Northumbria & Yorkshire Region                                |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
|---------------------------------------------------------------|-------------------------|----|---|------------------------|----|------------|---|--------------------------|---|--------|---|--------------|---|---------------------------|---|---------|---|
| Bathing Water                                                 | National Grid Reference | pH |   | Transparency           |    | Salmonella |   | Entero-Viruses           |   | Colour |   | Mineral Oils |   | Surface Active Substances |   | Phenols |   |
|                                                               |                         |    |   | Number of Observations |    |            |   | (Number of Failures - F) |   |        |   |              |   |                           |   |         |   |
|                                                               |                         | F  |   | F                      |    | F          |   | F                        |   | F      |   | F            |   | F                         |   | F       |   |
| Spittal                                                       | NU00805150              | 0  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Bamburgh Castle                                               | NU18503530              | 0  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Seahouses North                                               | NU21103300              | 0  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Beadnell                                                      | NU23302840              | 0  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Low Newton                                                    | NU24202450              | 0  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Alnmouth                                                      | NU25301070              | 0  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Warkworth                                                     | NU25900650              | 0  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Amblelinks                                                    | NU27600440              | 0  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Druridge Bay                                                  | NZ27909640              | 0  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Newbiggin North                                               | NZ31308780              | 0  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Newbiggin South                                               | NZ31108730              | 0  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Blyth South Beach                                             | NZ32207950              | 0  | 0 | 20                     | 0* | 2          | 0 | 2                        | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Seaton Sluice                                                 | NZ33407710              | 0  | 0 | 20                     | 0* | 2          | 0 | 2                        | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Whitley Bay                                                   | NZ35307340              | 0  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Tynemouth Cullercoats                                         | NZ36507130              | 0  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Tynemouth Long Sands North                                    | NZ36607080              | 0  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Tynemouth Long Sands South                                    | NZ36907020              | 0  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Tynemouth King Edwards Bay                                    | NZ37306960              | 0  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| South Shields                                                 | NZ37906740              | 1  | 0 | 22                     | 0* | 2          | 0 | 2                        | 1 | 22     | 0 | 22           | 0 | 22                        | 0 | 22      | 0 |
| Marsden                                                       | NZ40006500              | 1  | 0 | 22                     | 0* | 2          | 0 | 2                        | 1 | 22     | 0 | 22           | 0 | 22                        | 0 | 22      | 0 |
|                                                               |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Whitburn North                                                | NZ40706050              | 1  | 0 | 22                     | 0* | 2          | 0 | 2                        | 1 | 22     | 0 | 22           | 0 | 22                        | 0 | 22      | 0 |
| Roker/Whitburn South                                          | NZ40705930              | 1  | 0 | 21                     | 0* | 2          | 0 | 0                        | 0 | 21     | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
| Seaham Beach                                                  | NZ42405080              | 1  | 0 | 21                     | 0* | 2          | 0 | 2                        | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Seaham Remand Home                                            | NZ42605050              | 1  | 0 | 21                     | 0* | 2          | 0 | 2                        | 2 | 21     | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
| Crimdon                                                       | NZ48503730              | 1  | 0 | 21                     | 5  | 2          | 0 | 0                        | 0 | 21     | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
|                                                               |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Seaton Carew North                                            | NZ52503050              | 1  | 0 | 21                     | 3  | 2          | 0 | 0                        | 0 | 21     | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
| Seaton Carew Centre                                           | NZ53102960              | 1  | 0 | 21                     | 1  | 2          | 0 | 2                        | 2 | 21     | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
| Seaton Carew North Gare                                       | NZ54002860              | 1  | 0 | 21                     | 1  | 2          | 0 | 0                        | 0 | 21     | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
| Redcar Coatham                                                | NZ59202570              | 1  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Redcar LB Station                                             | NZ60602550              | 1  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Redcar Granville                                              | NZ61302510              | 1  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Redcar Stray                                                  | NZ62502380              | 1  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Sea at Marske Sands                                           | NZ63602320              | 1  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Saltburn                                                      | NZ66602170              | 1  | 0 | 20                     | 0* | 2          | 0 | 2                        | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Staithe                                                       | NZ78701900              | 1  | 0 | 21                     | 0* | 2          | 0 | 0                        | 0 | 21     | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
| (* Denotes waiver granted because of geographical conditions) |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |

(\* Denotes waiver granted because of geographical conditions)

## Section 4

### Bathing Waters Survey — 1994 Results (United Kingdom)

#### Compliance with Bathing Water Directive (76/160/EEC): Other Parameters

| Northumbria & Yorkshire Region (contd)                        |                         |    |   |              |    |            |   |               |   |        |   |              |   |                           |   |         |   |
|---------------------------------------------------------------|-------------------------|----|---|--------------|----|------------|---|---------------|---|--------|---|--------------|---|---------------------------|---|---------|---|
| Bathing Water                                                 | National Grid Reference | pH |   | Transparency |    | Salmonella |   | Enteroviruses |   | Colour |   | Mineral Oils |   | Surface Active Substances |   | Phenols |   |
|                                                               |                         | F  |   | F            |    | F          |   | F             |   | F      |   | F            |   | F                         |   | F       |   |
| Runswick Bay                                                  | NZ81101590              | 1  | 0 | 21           | 0* | 2          | 0 | 0             | 0 | 21     | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
| Sandsend                                                      | NZ86401260              | 1  | 0 | 22           | 0* | 2          | 0 | 0             | 0 | 22     | 0 | 22           | 0 | 22                        | 0 | 22      | 0 |
| Whitby                                                        | NZ89701170              | 1  | 0 | 21           | 0* | 2          | 0 | 0             | 0 | 21     | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
| Robin Hoods Bay                                               | NZ95900450              | 1  | 0 | 21           | 0* | 2          | 0 | 0             | 0 | 21     | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
| Scarborough North Bay                                         | TA03709000              | 1  | 0 | 21           | 0* | 2          | 0 | 0             | 0 | 21     | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
| Scarborough South Bay                                         | TA04608860              | 1  | 0 | 21           | 0* | 2          | 0 | 0             | 0 | 21     | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
| Cayton Bay                                                    | TA06708450              | 1  | 0 | 21           | 0* | 2          | 0 | 2             | 1 | 21     | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
| Filey                                                         | TA12008060              | 1  | 0 | 21           | 0* | 2          | 0 | 0             | 0 | 21     | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
| Reighton                                                      | TA14407630              | 1  | 0 | 22           | 0* | 2          | 0 | 0             | 0 | 22     | 0 | 22           | 0 | 22                        | 0 | 22      | 0 |
| Flamborough North Landing                                     | TA23807220              | 1  | 0 | 20           | 0* | 2          | 0 | 0             | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Flamborough South Landing                                     | TA23106920              | 1  | 0 | 20           | 0* | 2          | 1 | 0             | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Bridlington North Beach                                       | TA19006720              | 1  | 0 | 20           | 0* | 2          | 1 | 0             | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Bridlington South Beach                                       | TA18106610              | 1  | 0 | 20           | 0* | 2          | 0 | 0             | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Wilsthorpe                                                    | TA17206400              | 1  | 0 | 20           | 0* | 2          | 0 | 0             | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Fraisthorpe                                                   | TA17106290              | 1  | 0 | 20           | 0* | 2          | 1 | 0             | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Earls Dyke                                                    | TA17006150              | 1  | 0 | 20           | 0* | 2          | 0 | 0             | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Barmston                                                      | TA17205940              | 1  | 0 | 20           | 0* | 2          | 0 | 0             | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Skipsea                                                       | TA17705720              | 1  | 0 | 20           | 0* | 2          | 0 | 0             | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Hornsea                                                       | TA21004780              | 1  | 0 | 20           | 0* | 2          | 0 | 0             | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Tunstall                                                      | TA32203120              | 1  | 0 | 20           | 0* | 2          | 0 | 0             | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Withernsea                                                    | TA34402810              | 1  | 0 | 20           | 0* | 2          | 0 | 0             | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| (* Denotes waiver granted because of geographical conditions) |                         |    |   |              |    |            |   |               |   |        |   |              |   |                           |   |         |   |

| Anglian Region                                                |                         |    |   |              |    |            |   |               |   |        |   |              |   |                           |   |         |   |
|---------------------------------------------------------------|-------------------------|----|---|--------------|----|------------|---|---------------|---|--------|---|--------------|---|---------------------------|---|---------|---|
| Bathing Water                                                 | National Grid Reference | pH |   | Transparency |    | Salmonella |   | Enteroviruses |   | Colour |   | Mineral Oils |   | Surface Active Substances |   | Phenols |   |
|                                                               |                         | F  |   | F            |    | F          |   | F             |   | F      |   | F            |   | F                         |   | F       |   |
| Cleethorpes                                                   | TA31050860              | 0  | 0 | 20           | 0* | 2          | 1 | 2             | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Mablethorpe Town                                              | TF50808540              | 0  | 0 | 20           | 0* | 2          | 0 | 0             | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Sutton-on-sea                                                 | TF52258210              | 0  | 0 | 20           | 0* | 2          | 0 | 0             | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Moggs Eye                                                     | TF55007760              | 0  | 0 | 20           | 0* | 2          | 0 | 0             | 0 | 20     | 0 | 20           | 0 | 20                        | 1 | 20      | 0 |
| Anderby                                                       | TF55307620              | 0  | 0 | 20           | 0* | 2          | 0 | 0             | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| (* Denotes waiver granted because of geographical conditions) |                         |    |   |              |    |            |   |               |   |        |   |              |   |                           |   |         |   |



#### Section 4

##### Bathing Waters Survey — 1994 Results (United Kingdom)

##### Compliance with Bathing Water Directive (76/160/EEC): Other Parameters

| Anglian Region (contd)                                        |                         |    |   |              |    |                        |   |                |   |                          |   |              |   |                           |   |         |   |
|---------------------------------------------------------------|-------------------------|----|---|--------------|----|------------------------|---|----------------|---|--------------------------|---|--------------|---|---------------------------|---|---------|---|
| Bathing Water                                                 | National Grid Reference | pH |   | Transparency |    | Salmonella             |   | Entero-Viruses |   | Colour                   |   | Mineral Oils |   | Surface Active Substances |   | Phenols |   |
|                                                               |                         |    |   |              |    | Number of Observations |   |                |   | (Number of Failures – F) |   |              |   |                           |   |         |   |
|                                                               |                         | F  |   | F            |    | F                      |   | F              |   | F                        |   | F            |   | F                         |   | F       |   |
| Chapel St Leonard                                             | TF56407220              | 0  | 0 | 20           | 0* | 2                      | 1 | 0              | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Ingoldmells South                                             | TF57406855              | 0  | 0 | 19           | 0* | 2                      | 0 | 0              | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Skegness                                                      | TF57206345              | 0  | 0 | 20           | 0* | 2                      | 0 | 0              | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Heacham                                                       | TF66303750              | 1  | 0 | 18           | 0* | 2                      | 0 | 0              | 0 | 21                       | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
| Hunstanton Beach                                              | TF67804250              | 1  | 0 | 18           | 0* | 2                      | 0 | 0              | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |              |    |                        |   |                |   |                          |   |              |   |                           |   |         |   |
| Wells                                                         | TF91404560              | 2  | 0 | 20           | 0* | 2                      | 0 | 0              | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Sheringham                                                    | TG16204360              | 2  | 0 | 20           | 0* | 2                      | 1 | 0              | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Cromer                                                        | TG21904250              | 2  | 0 | 20           | 0* | 2                      | 1 | 0              | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Mundesley                                                     | TG31703660              | 2  | 0 | 20           | 0* | 2                      | 0 | 0              | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Hemsby                                                        | TG50901740              | 2  | 0 | 20           | 0* | 2                      | 0 | 0              | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |              |    |                        |   |                |   |                          |   |              |   |                           |   |         |   |
| Caister Point                                                 | TG53001200              | 2  | 0 | 20           | 0* | 2                      | 0 | 0              | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Great Yarmouth North                                          | TG53501050              | 2  | 0 | 20           | 0* | 2                      | 0 | 0              | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Great Yarmouth Pier                                           | TG53300740              | 2  | 0 | 20           | 0* | 2                      | 1 | 2              | 2 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Great Yarmouth South                                          | TG53300640              | 2  | 0 | 20           | 0* | 2                      | 2 | 2              | 2 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Gorleston Beach                                               | TG53200310              | 2  | 0 | 20           | 0* | 2                      | 1 | 2              | 2 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |              |    |                        |   |                |   |                          |   |              |   |                           |   |         |   |
| Lowestoft North                                               | TM55309500              | 2  | 0 | 20           | 0* | 2                      | 0 | 0              | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Lowestoft South                                               | TM54509170              | 2  | 0 | 20           | 0* | 2                      | 0 | 0              | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Southwold The Denes                                           | TM50807540              | 2  | 0 | 20           | 0* | 2                      | 0 | 0              | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Felixstowe North                                              | TM30503430              | 2  | 0 | 20           | 0* | 2                      | 0 | 0              | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Felixstowe South                                              | TM29703370              | 2  | 0 | 20           | 0* | 2                      | 0 | 0              | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |              |    |                        |   |                |   |                          |   |              |   |                           |   |         |   |
| Dovercourt                                                    | TM25173064              | 2  | 0 | 19           | 0* | 2                      | 0 | 0              | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Walton                                                        | TM25552156              | 2  | 0 | 19           | 0* | 2                      | 0 | 0              | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Frinton                                                       | TM23791941              | 2  | 0 | 19           | 0* | 2                      | 0 | 0              | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Holland                                                       | TM22451765              | 2  | 0 | 19           | 0* | 2                      | 0 | 0              | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Clacton                                                       | TM18791525              | 2  | 0 | 19           | 0* | 2                      | 0 | 0              | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |              |    |                        |   |                |   |                          |   |              |   |                           |   |         |   |
| Jaywick                                                       | TM14851280              | 2  | 0 | 21           | 0* | 2                      | 0 | 0              | 0 | 21                       | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
| Brightlingsea                                                 | TM07631616              | 2  | 0 | 21           | 0* | 2                      | 1 | 0              | 0 | 21                       | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
| West Mersea                                                   | TM02271203              | 2  | 0 | 21           | 0* | 2                      | 0 | 2              | 1 | 21                       | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
| (* Denotes waiver granted because of geographical conditions) |                         |    |   |              |    |                        |   |                |   |                          |   |              |   |                           |   |         |   |

| Thames Region                                                 |                         |                        |   |              |    |            |   |                          |    |        |   |              |   |                           |   |         |   |
|---------------------------------------------------------------|-------------------------|------------------------|---|--------------|----|------------|---|--------------------------|----|--------|---|--------------|---|---------------------------|---|---------|---|
| Bathing Water                                                 | National Grid Reference | pH                     |   | Transparency |    | Salmonella |   | Entero-Viruses           |    | Colour |   | Mineral Oils |   | Surface Active Substances |   | Phenols |   |
|                                                               |                         | Number of Observations |   |              |    |            |   | (Number of Failures - F) |    |        |   |              |   |                           |   |         |   |
|                                                               |                         | F                      |   | F            |    | F          |   | F                        |    | F      |   | F            |   | F                         |   | F       |   |
| Shoebury East                                                 | TQ94508520              | 1                      | 0 | 20           | 0* | 20         | 4 | 20                       | 15 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Southend Thorpe Bay                                           | TQ91108470              | 1                      | 0 | 20           | 0* | 20         | 2 | 20                       | 17 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Southend Westcliff Bay                                        | TQ86458525              | 1                      | 0 | 20           | 0* | 20         | 3 | 19                       | 17 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| (* Denotes waiver granted because of geographical conditions) |                         |                        |   |              |    |            |   |                          |    |        |   |              |   |                           |   |         |   |



**Section 4**  
**Bathing Waters Survey — 1994 Results (United Kingdom)**  
**Compliance with Bathing Water Directive (76/160/EEC): Other Parameters**

| Southern Region                                               |                         |                                                 |   |              |    |            |   |                |   |        |    |              |   |                           |   |         |   |
|---------------------------------------------------------------|-------------------------|-------------------------------------------------|---|--------------|----|------------|---|----------------|---|--------|----|--------------|---|---------------------------|---|---------|---|
| Bathing Water                                                 | National Grid Reference | pH                                              |   | Transparency |    | Salmonella |   | Entero-Viruses |   | Colour |    | Mineral Oils |   | Surface Active Substances |   | Phenols |   |
|                                                               |                         | Number of Observations (Number of Failures - F) |   |              |    |            |   |                |   |        |    |              |   |                           |   |         |   |
|                                                               |                         | F                                               |   | F            |    | F          |   | F              |   | F      |    | F            |   | F                         |   | F       |   |
| Sheerness                                                     | TQ92507500              | 2                                               | 0 | 21           | 0* | 2          | 0 | 2              | 0 | 21     | 0  | 21           | 0 | 21                        | 0 | 21      | 0 |
| Leysdown                                                      | TR03407080              | 2                                               | 0 | 21           | 0* | 2          | 0 | 2              | 0 | 21     | 0  | 21           | 0 | 21                        | 0 | 21      | 0 |
| West Beach                                                    | TR09806600              | 2                                               | 0 | 21           | 0* | 2          | 0 | 2              | 0 | 21     | 0  | 21           | 0 | 21                        | 0 | 21      | 0 |
| Herne Bay                                                     | TR18606860              | 2                                               | 0 | 21           | 0* | 2          | 0 | 2              | 2 | 21     | 0  | 21           | 0 | 21                        | 0 | 21      | 0 |
| Minnis Bay                                                    | TR28606970              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 1 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |                                                 |   |              |    |            |   |                |   |        |    |              |   |                           |   |         |   |
| St Mildred's Bay                                              | TR32807050              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 1 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Margate The Bay                                               | TR34707080              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 1 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Margate Fulsam Rock                                           | TR35607150              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 1 | 20     | 0* | 20           | 0 | 20                        | 0 | 20      | 0 |
| Joss Bay                                                      | TR39907020              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 2 | 20     | 0* | 20           | 0 | 20                        | 0 | 20      | 0 |
| Broadstairs                                                   | TR39806770              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 1 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |                                                 |   |              |    |            |   |                |   |        |    |              |   |                           |   |         |   |
| Ramsgate                                                      | TR37206400              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 2 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Sandwich Bay                                                  | TR35805900              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 1 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Deal Castle                                                   | TR37805270              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 2 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| St Margaret's Bay                                             | TR36804440              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 2 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Folkestone                                                    | TR23703630              | 2                                               | 0 | 21           | 0* | 2          | 0 | 2              | 2 | 21     | 0  | 21           | 0 | 21                        | 0 | 21      | 0 |
|                                                               |                         |                                                 |   |              |    |            |   |                |   |        |    |              |   |                           |   |         |   |
| Sandgate                                                      | TR18803480              | 2                                               | 0 | 21           | 0* | 2          | 0 | 2              | 1 | 21     | 0  | 21           | 0 | 21                        | 0 | 21      | 0 |
| Hythe                                                         | TR16003400              | 2                                               | 0 | 21           | 0* | 2          | 0 | 2              | 1 | 21     | 0  | 21           | 0 | 21                        | 0 | 21      | 0 |
| Dymchurch                                                     | TR11303040              | 2                                               | 0 | 21           | 0* | 2          | 0 | 2              | 1 | 21     | 0  | 21           | 0 | 21                        | 0 | 21      | 0 |
| St Mary's Bay                                                 | TR09302770              | 2                                               | 0 | 21           | 0* | 2          | 0 | 2              | 0 | 21     | 0  | 21           | 0 | 21                        | 0 | 21      | 0 |
| Littlestone                                                   | TR08402390              | 2                                               | 0 | 21           | 0* | 2          | 0 | 2              | 0 | 21     | 0  | 21           | 0 | 21                        | 0 | 21      | 0 |
|                                                               |                         |                                                 |   |              |    |            |   |                |   |        |    |              |   |                           |   |         |   |
| Camber                                                        | TQ97301840              | 2                                               | 0 | 21           | 0* | 2          | 0 | 2              | 0 | 21     | 0  | 21           | 0 | 21                        | 0 | 21      | 0 |
| Winchelsea                                                    | TQ91201540              | 2                                               | 0 | 21           | 0* | 2          | 0 | 2              | 0 | 21     | 0  | 21           | 0 | 21                        | 0 | 21      | 0 |
| Hastings                                                      | TQ81900920              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Bexhill                                                       | TQ73700680              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Norman's Bay                                                  | TQ68200530              | 2                                               | 0 | 20           | 0* | 2          | 1 | 2              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |                                                 |   |              |    |            |   |                |   |        |    |              |   |                           |   |         |   |
| Pevensy Bay                                                   | TQ65700370              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Eastbourne                                                    | TV61409820              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 1 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Seaford                                                       | TV48809820              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 1 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Newhaven                                                      | TV44909980              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 2 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Saltdon                                                       | TQ38100180              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 0 | 20     | 0* | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |                                                 |   |              |    |            |   |                |   |        |    |              |   |                           |   |         |   |
| Brighton                                                      | TQ32300340              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Hove                                                          | TQ28800430              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 1 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Southwick                                                     | TQ24200480              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 2 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| South Lancing                                                 | TQ18300360              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 2 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Worthing                                                      | TQ13900210              | 2                                               | 0 | 20           | 0* | 2          | 1 | 2              | 2 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| (* Denotes waiver granted because of geographical conditions) |                         |                                                 |   |              |    |            |   |                |   |        |    |              |   |                           |   |         |   |

(\* Denotes waiver granted because of geographical conditions)

**Section 4**  
**Bathing Waters Survey — 1994 Results (United Kingdom)**  
**Compliance with Bathing Water Directive (76/160/EEC): Other Parameters**

| Southern Region (contd)                                       |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
|---------------------------------------------------------------|-------------------------|----|---|------------------------|----|------------|---|--------------------------|---|--------|---|--------------|---|---------------------------|---|---------|---|
| Bathing Water                                                 | National Grid Reference | pH |   | Transparency           |    | Salmonella |   | Enteroviruses            |   | Colour |   | Mineral Oils |   | Surface Active Substances |   | Phenols |   |
|                                                               |                         |    |   | Number of Observations |    |            |   | (Number of Failures - F) |   |        |   |              |   |                           |   |         |   |
|                                                               |                         | F  |   | F                      |    | F          |   | F                        |   | F      |   | F            |   | F                         |   | F       |   |
| Littlehampton                                                 | TQ04000130              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Middleton-on-sea                                              | SZ98509990              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Bognor Regis                                                  | SZ92309850              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Pagham                                                        | SZ89209720              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Selsey                                                        | SZ86809370              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Bracklesham Bay                                               | SZ80509630              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| West Wittering                                                | SZ76809800              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| West of Eastoke                                               | SZ72909840              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| West Hayling                                                  | SZ70509870              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Eastney                                                       | SZ67509880              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Southsea                                                      | SZ65309820              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Stokes Bay                                                    | SZ60009790              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Lee-on-Solent                                                 | SU56200050              | 2  | 0 | 20                     | 0* | 2          | 1 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Hillhead                                                      | SU54000220              | 2  | 0 | 20                     | 0* | 2          | 1 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Calshot                                                       | SU48100120              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Lepe                                                          | SZ45609850              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Milford-on-sea                                                | SZ28309150              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Christchurch Bay                                              | SZ23909280              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Highcliffe                                                    | SZ21609310              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Compton Bay                                                   | SZ37708410              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Totland Bay                                                   | SZ32208710              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Colwell Bay                                                   | SZ32808790              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Gurnard                                                       | SZ47709590              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Cowes                                                         | SZ48809670              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Ryde                                                          | SZ60109270              | 2  | 0 | 20                     | 0* | 2          | 1 | 2                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Seagrove                                                      | SZ63209120              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| St Helens                                                     | SZ63708920              | 2  | 0 | 20                     | 0* | 2          | 1 | 2                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Bembridge                                                     | SZ65708810              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Whitecliff Bay                                                | SZ64108620              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Sandown                                                       | SZ60108430              | 2  | 0 | 20                     | 0* | 2          | 1 | 2                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Shanklin                                                      | SZ58508110              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Ventnor                                                       | SZ56207730              | 2  | 0 | 20                     | 0* | 2          | 1 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| (* Denotes waiver granted because of geographical conditions) |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |

# Section 4

## Bathing Waters Survey — 1994 Results (United Kingdom)

### Compliance with Bathing Water Directive (76/160/EEC): Other Parameters

| South Western Region                                          |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
|---------------------------------------------------------------|-------------------------|----|---|------------------------|----|------------|---|--------------------------|---|--------|---|--------------|---|---------------------------|---|---------|---|
| Bathing Water                                                 | Notional Grid Reference | pH |   | Transparency           |    | Salmonella |   | Entero-Viruses           |   | Colour |   | Mineral Oils |   | Surface Active Substances |   | Phenols |   |
|                                                               |                         | F  |   | Number of Observations |    |            |   | (Number of Failures - F) |   |        |   | F            |   | F                         |   | F       |   |
|                                                               |                         | F  |   | F                      |    | F          |   | F                        |   | F      |   | F            |   | F                         |   | F       |   |
| Christchurch                                                  |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Highcliffe Castle                                             | SZ20009290              | 18 | 0 | 18                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Christchurch Friar's Cliff                                    | SZ19209252              | 18 | 0 | 18                     | 0* | 2          | 0 | 2                        | 1 | 22     | 0 | 22           | 0 | 22                        | 0 | 22      | 0 |
| Christchurch Avon Beach                                       | SZ18889223              | 18 | 0 | 18                     | 0* | 2          | 0 | 1                        | 0 | 21     | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
| Christchurch Mudeford                                         |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Sandbank East                                                 | SZ18259121              | 18 | 0 | 18                     | 0* | 2          | 0 | 2                        | 1 | 22     | 0 | 22           | 0 | 22                        | 0 | 22      | 0 |
| Bournemouth                                                   |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Hengistbury East                                              | SZ17009060              | 18 | 0 | 18                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Bournemouth                                                   |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Fisherman's Walk                                              | SZ12809130              | 18 | 0 | 18                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Bournemouth                                                   |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Boscombe Pier                                                 | SZ11209110              | 18 | 0 | 18                     | 0* | 2          | 0 | 2                        | 1 | 22     | 0 | 22           | 0 | 22                        | 0 | 22      | 0 |
| Bournemouth Pier                                              | SZ08859065              | 18 | 0 | 18                     | 0* | 2          | 0 | 2                        | 0 | 22     | 0 | 22           | 0 | 21                        | 0 | 22      | 0 |
| Bournemouth                                                   |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Durley Chine                                                  | SZ07859030              | 19 | 0 | 18                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Poole Shore Rd                                                | SZ05108830              | 18 | 0 | 17                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Sandbanks                                                     |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Poole Harbour Sandbanks                                       | SZ04908850              | 18 | 0 | 18                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Poole Harbour Lake                                            | SY98329040              | 18 | 0 | 18                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 19      | 0 |
| Poole Harbour                                                 |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Rockley Sands                                                 | SY97209080              | 18 | 0 | 18                     | 0* | 2          | 1 | 2                        | 0 | 22     | 0 | 22           | 0 | 22                        | 0 | 21      | 0 |
| Shell Bay North                                               | SZ03708660              | 18 | 0 | 18                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Studland Knoll House                                          | SZ03488353              | 18 | 0 | 18                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Swanage Central                                               |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Kimmeridge Bay                                                | SY90707905              | 20 | 0 | 20                     | 0* | 2          | 0 | 2                        | 1 | 22     | 0 | 24           | 0 | 24                        | 0 | 22      | 0 |
| Lulworth Cove                                                 | SY82477995              | 18 | 0 | 18                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Durdle Door East                                              | SY80808030              | 18 | 0 | 18                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Durdle Door West                                              | SY80408030              | 18 | 0 | 18                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Ringstead Bay                                                 |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Bowleaze Cove                                                 | SY70428189              | 18 | 0 | 18                     | 0* | 2          | 0 | 0                        | 0 | 19     | 0 | 19           | 0 | 19                        | 0 | 19      | 0 |
| Church Ope Cove                                               | SY69767100              | 17 | 0 | 18                     | 0* | 2          | 0 | 0                        | 0 | 21     | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
| Weymouth Lodmoor                                              | SY68806710              | 18 | 0 | 18                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Weymouth Central                                              | SY68107940              | 18 | 0 | 18                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 19      | 0 |
| Portland Harbour                                              |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Castle Cove                                                   | SY67607750              | 18 | 0 | 18                     | 0* | 2          | 0 | 0                        | 0 | 21     | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
| Portland Harbour                                              |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Sandsfoot Castle                                              | SY67307720              | 18 | 0 | 18                     | 0* | 2          | 0 | 2                        | 1 | 23     | 0 | 23           | 0 | 23                        | 0 | 23      | 0 |
| West Bay (West)                                               | SY45909040              | 17 | 0 | 16                     | 0* | 2          | 0 | 2                        | 1 | 21     | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
| Eypemouth                                                     | SY44689100              | 17 | 0 | 17                     | 0* | 2          | 1 | 0                        | 0 | 19     | 0 | 19           | 0 | 19                        | 0 | 19      | 0 |
| Seatown                                                       | SY41879165              | 17 | 0 | 17                     | 0* | 2          | 0 | 2                        | 1 | 22     | 0 | 22           | 0 | 22                        | 0 | 22      | 0 |
| (* Denotes waiver granted because of geographical conditions) |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |

(\* Denotes waiver granted because of geographical conditions)



**Section 4**  
**Bathing Waters Survey — 1994 Results (United Kingdom)**  
**Compliance with Bathing Water Directive (76/160/EEC): Other Parameters**

| South Western Region (contd)                                  |                         |    |   |              |    |                        |   |               |   |                          |   |              |   |                           |   |         |   |
|---------------------------------------------------------------|-------------------------|----|---|--------------|----|------------------------|---|---------------|---|--------------------------|---|--------------|---|---------------------------|---|---------|---|
| Bathing Water                                                 | National Grid Reference | pH |   | Transparency |    | Salmonella             |   | Enteroviruses |   | Colour                   |   | Mineral Oils |   | Surface Active Substances |   | Phenols |   |
|                                                               |                         |    |   |              |    | Number of Observations |   |               |   | (Number of Failures - F) |   |              |   |                           |   |         |   |
|                                                               |                         | F  |   | F            |    | F                      |   | F             |   | F                        |   | F            |   | F                         |   | F       |   |
| Charmouth West                                                | SY36309300              | 17 | 0 | 17           | 0* | 2                      | 0 | 2             | 1 | 22                       | 0 | 22           | 0 | 22                        | 0 | 22      | 0 |
| Lyme Regis Church Beach                                       | SY34369212              | 0  | 0 | 0            | 0  | 0                      | 0 | 0             | 0 | 0                        | 0 | 0            | 0 | 0                         | 0 | 0       | 0 |
| Lyme Regis Cobb                                               | SY33909185              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Seaton (Devon)                                                | SY24508985              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Beer                                                          | SY23158910              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |              |    |                        |   |               |   |                          |   |              |   |                           |   |         |   |
| Sidmouth Town                                                 | SY12708720              | 20 | 0 | 20           | 0* | 2                      | 1 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Sidmouth Jacobs Ladder                                        | SY11908695              | 20 | 0 | 20           | 0* | 2                      | 1 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Ladram Bay                                                    | SY09728515              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Budleigh Salterton                                            | SY06958190              | 20 | 0 | 20           | 0* | 2                      | 1 | 2             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Sandy Bay                                                     | SY03357980              | 20 | 0 | 20           | 0* | 2                      | 0 | 2             | 1 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |              |    |                        |   |               |   |                          |   |              |   |                           |   |         |   |
| Exmouth                                                       | SY00987995              | 20 | 0 | 20           | 0* | 2                      | 0 | 2             | 1 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Dawlish Warren                                                | SX98307875              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Dawlish Town                                                  | SX96557680              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Dawlish Coryton Cove                                          | SX96117606              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Teignmouth Holcombe                                           | SX95657461              | 21 | 0 | 21           | 0* | 2                      | 0 | 0             | 0 | 21                       | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
|                                                               |                         |    |   |              |    |                        |   |               |   |                          |   |              |   |                           |   |         |   |
| Teignmouth Town                                               | SX94307285              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Shaldon                                                       | SX93507230              | 20 | 0 | 20           | 0* | 2                      | 1 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Ness Cove                                                     | SX93857170              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Maidencombe                                                   | SX92786850              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Watcombe                                                      | SX92626730              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |              |    |                        |   |               |   |                          |   |              |   |                           |   |         |   |
| Oddicombe                                                     | SX92656585              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Babbacombe                                                    | SX93006545              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Redgate                                                       | SX93506480              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Meadfoot                                                      | SX93056305              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Beacon Cove                                                   | SX91956307              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |              |    |                        |   |               |   |                          |   |              |   |                           |   |         |   |
| Torre Abbey                                                   | SX90956351              | 20 | 0 | 20           | 0* | 2                      | 1 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Hollicombe                                                    | SX89806215              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Paignton Preston Sands                                        | SX89646177              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Paignton Paignton Sands                                       | SX89496063              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Goodrington                                                   | SX89355940              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |              |    |                        |   |               |   |                          |   |              |   |                           |   |         |   |
| Broadsands                                                    | SX89705745              | 20 | 0 | 20           | 0* | 2                      | 1 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Shoalstone                                                    | SX93205662              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| St Mary's Bay                                                 | SX93205510              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Dartmouth Castle and Sugary Cove                              | SX88655020              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Blackpool Sands                                               | SX85504785              | 20 | 0 | 20           | 0* | 2                      | 0 | 0             | 0 | 20                       | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| (* Denotes waiver granted because of geographical conditions) |                         |    |   |              |    |                        |   |               |   |                          |   |              |   |                           |   |         |   |

(\* Denotes waiver granted because of geographical conditions)

**Section 4**  
**Bathing Waters Survey — 1994 Results (United Kingdom)**  
**Compliance with Bathing Water Directive (76/160/EEC): Other Parameters**

| South Western Region (contd)                                  |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
|---------------------------------------------------------------|-------------------------|----|---|------------------------|----|------------|---|--------------------------|---|--------|---|--------------|---|---------------------------|---|---------|---|
| Bathing Water                                                 | National Grid Reference | pH |   | Transparency           |    | Salmonella |   | Enteroviruses            |   | Colour |   | Mineral Oils |   | Surface Active Substances |   | Phenols |   |
|                                                               |                         |    |   | Number of Observations |    |            |   | (Number of Failures - F) |   |        |   |              |   |                           |   |         |   |
|                                                               |                         | F  |   | F                      |    | F          |   | F                        |   | F      |   | F            |   | F                         |   | F       |   |
| Slapton Sands Monument                                        | SX82954430              | 20 | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Slapton Sands Torcross                                        | SX82354195              | 20 | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Mill Bay                                                      | SX74073825              | 20 | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Salcombe North Sands                                          | SX73103820              | 20 | 0 | 20                     | 0* | 2          | 1 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Salcombe South Sands                                          | SX72853775              | 20 | 0 | 20                     | 0* | 4          | 2 | 2                        | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Hope Cove                                                     | SX67553975              | 20 | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Thurlestone South                                             | SX67654170              | 20 | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Thurlestone North                                             | SX67404210              | 20 | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Bantham                                                       | SX66234380              | 20 | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Bigbury-on-Sea South                                          | SX65104415              | 20 | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Bigbury-on-Sea North                                          | SX64954430              | 20 | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Challaborough                                                 | SX64924480              | 20 | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Mothercombe                                                   | SX61054734              | 20 | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Wembury                                                       | SX51604850              | 20 | 0 | 20                     | 0* | 2          | 0 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Bovisand                                                      | SX49305050              | 20 | 0 | 20                     | 0* | 2          | 0 | 2                        | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Plymouth Hoe East                                             | SX47805370              | 20 | 0 | 20                     | 0* | 2          | 0 | 2                        | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Plymouth Hoe West                                             | SX47505370              | 20 | 0 | 20                     | 0* | 2          | 1 | 2                        | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Portwrinkle                                                   | SX35905380              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Downderry                                                     | SX31405380              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Seaton (Cornwall)                                             | SX30305430              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Millendreath                                                  | SX26805410              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| East Looe                                                     | SX25705320              | 2  | 0 | 20                     | 0* | 2          | 1 | 2                        | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Readymoney                                                    | SX11805110              | 2  | 0 | 19                     | 0* | 2          | 0 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Polkerris                                                     | SX09105230              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Par                                                           | SX08305330              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Crinnis Golf Links                                            | SX06305220              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Crinnis Leisure Centre                                        | SX05605210              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Charlestown                                                   | SX04205160              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Duporth                                                       | SX03505120              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Porthpean                                                     | SX03205070              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Pentewan                                                      | SX01804670              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Polstreath                                                    | SX01704540              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Port Mellon                                                   | SX01604390              | 2  | 0 | 20                     | 0* | 2          | 1 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Gorran Haven                                                  |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Little Perhaver                                               | SX01304170              | 2  | 0 | 20                     | 0* | 2          | 1 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Gorran Haven (Vault)                                          | SX01004080              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| (* Denotes waiver granted because of geographical conditions) |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |

(\* Denotes waiver granted because of geographical conditions)



**Section 4**  
**Bathing Waters Survey — 1994 Results (United Kingdom)**  
**Compliance with Bathing Water Directive (76/160/EEC): Other Parameters**

| South Western Region (contd)                                  |                         |    |   |              |    |            |   |                |   |        |   |              |   |                           |   |         |   |
|---------------------------------------------------------------|-------------------------|----|---|--------------|----|------------|---|----------------|---|--------|---|--------------|---|---------------------------|---|---------|---|
| Bathing Water                                                 | National Grid Reference | pH |   | Transparency |    | Salmonella |   | Entero-Viruses |   | Colour |   | Mineral Oils |   | Surface Active Substances |   | Phenols |   |
|                                                               |                         |    |   |              |    |            |   |                |   |        |   |              |   |                           |   |         |   |
|                                                               |                         | F  |   | F            |    | F          |   | F              |   | F      |   | F            |   | F                         |   | F       |   |
| Porthluney                                                    | SW97304130              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Pendower                                                      | SW90503830              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Gyllyngvase                                                   | SW80903160              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Swanpool                                                      | SW80303130              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Maen Porth                                                    | SW79002960              | 2  | 0 | 20           | 0* | 2          | 0 | 2              | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |              |    |            |   |                |   |        |   |              |   |                           |   |         |   |
| Porthallow                                                    | SW79702330              | 2  | 0 | 20           | 0* | 2          | 0 | 2              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Porthoustock                                                  | SW80702170              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Coverack                                                      | SW78301840              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Kennack Sands                                                 | SW73401650              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Pollurian Cove                                                | SW66801870              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |              |    |            |   |                |   |        |   |              |   |                           |   |         |   |
| Poldhu Cove                                                   | SW66501980              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Gunwalloe Cove                                                | SW65402250              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Porthleven West                                               | SW63202530              | 2  | 0 | 20           | 0* | 2          | 0 | 2              | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Praa Sands East                                               | SW58502760              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Praa Sands West                                               | SW57702810              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |              |    |            |   |                |   |        |   |              |   |                           |   |         |   |
| Perron Sands                                                  | SW53902930              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Mounts Bay L Holgus                                           | SW51303100              | 2  | 0 | 20           | 0* | 2          | 0 | 2              | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Mounts Bay Heliport                                           | SW48503110              | 1  | 0 | 12           | 0* | 1          | 0 | 0              | 0 | 12     | 0 | 12           | 0 | 12                        | 0 | 12      | 0 |
| Mounts Bay Penzance                                           | SW47502980              | 2  | 0 | 20           | 0* | 3          | 1 | 2              | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Mounts Bay Wherry Town                                        | SW46702940              | 2  | 0 | 20           | 0* | 3          | 1 | 2              | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |              |    |            |   |                |   |        |   |              |   |                           |   |         |   |
| Porthcurno                                                    | SW38702230              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Sennen                                                        | SW35522645              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Porthmeor                                                     | SW51504103              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Porth Gwidden                                                 | SW52204110              | 2  | 0 | 20           | 0* | 2          | 1 | 2              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Porthminster                                                  | SW52204025              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |              |    |            |   |                |   |        |   |              |   |                           |   |         |   |
| Carbis Bay Station Beach                                      | SW52803890              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Carbis Bay                                                    |                         |    |   |              |    |            |   |                |   |        |   |              |   |                           |   |         |   |
| Porth Kidney Sands                                            | SW54003850              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| The Towans (Hayle)                                            | SW56303950              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| The Towans (Godrevy)                                          | SW58104170              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Portreath                                                     | SW65304550              | 2  | 0 | 20           | 0* | 2          | 1 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |    |   |              |    |            |   |                |   |        |   |              |   |                           |   |         |   |
| Porthtowan                                                    | SW68904790              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Trevaunance Cove                                              | SW72305170              | 2  | 0 | 20           | 0* | 2          | 0 | 2              | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Perranporth Village End                                       | SW75705480              | 2  | 0 | 20           | 0* | 2          | 1 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Perranporth                                                   |                         |    |   |              |    |            |   |                |   |        |   |              |   |                           |   |         |   |
| Penhale Sands                                                 | SW76205700              | 2  | 0 | 20           | 0* | 2          | 1 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Holywell Bay                                                  | SW76505950              | 2  | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| (* Denotes waiver granted because of geographical conditions) |                         |    |   |              |    |            |   |                |   |        |   |              |   |                           |   |         |   |

(\* Denotes waiver granted because of geographical conditions)

## Section 4

### Bathing Waters Survey — 1994 Results (United Kingdom)

#### Compliance with Bathing Water Directive (76/160/EEC): Other Parameters

| South Western Region (contd)                                  |                         |                        |   |              |    |                          |   |                |   |        |    |              |   |                           |   |         |   |
|---------------------------------------------------------------|-------------------------|------------------------|---|--------------|----|--------------------------|---|----------------|---|--------|----|--------------|---|---------------------------|---|---------|---|
| Bathing Water                                                 | National Grid Reference | pH                     |   | Transparency |    | Salmonella               |   | Entero-Viruses |   | Colour |    | Mineral Oils |   | Surface Active Substances |   | Phenols |   |
|                                                               |                         | Number of Observations |   |              |    | (Number of Failures - F) |   |                |   |        |    |              |   |                           |   |         |   |
|                                                               |                         | F                      |   | F            |    | F                        |   | F              |   | F      |    | F            |   | F                         |   | F       |   |
| Crantock                                                      | SW78406080              | 2                      | 0 | 20           | 0* | 2                        | 0 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Fistral                                                       | SW79606230              | 2                      | 0 | 20           | 0* | 2                        | 0 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Towan                                                         | SW81006205              | 2                      | 0 | 20           | 0* | 2                        | 0 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Watergate                                                     | SW84106490              | 2                      | 0 | 20           | 0* | 2                        | 0 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Mawgan Porth                                                  | SW84806740              | 2                      | 0 | 20           | 0* | 2                        | 0 | 2              | 2 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |                        |   |              |    |                          |   |                |   |        |    |              |   |                           |   |         |   |
| Porthcothan                                                   | SW85707202              | 2                      | 0 | 19           | 0* | 4                        | 2 | 2              | 2 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Treyarnon Bay                                                 | SW85707390              | 2                      | 0 | 19           | 0* | 2                        | 0 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Constantine Bay                                               | SW85807480              | 2                      | 0 | 19           | 0* | 2                        | 0 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Mother Ivey's Bay                                             | SW86307600              | 2                      | 0 | 19           | 0* | 2                        | 0 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Harlyn Bay                                                    | SW87707550              | 2                      | 0 | 19           | 0* | 2                        | 0 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |                        |   |              |    |                          |   |                |   |        |    |              |   |                           |   |         |   |
| Trevone Bay                                                   | SW89207610              | 2                      | 0 | 19           | 0* | 2                        | 0 | 2              | 2 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Rock                                                          | SW93607550              | 2                      | 0 | 19           | 0* | 2                        | 0 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Daymer Bay                                                    | SW92807760              | 2                      | 0 | 19           | 0* | 2                        | 0 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Polzeath                                                      | SW93607920              | 1                      | 0 | 19           | 0* | 2                        | 0 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Widemouth Sand                                                | SS19800240              | 19                     | 0 | 20           | 0* | 2                        | 0 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |                        |   |              |    |                          |   |                |   |        |    |              |   |                           |   |         |   |
| Bude Summerleaze                                              | SS20400660              | 20                     | 0 | 20           | 0* | 2                        | 0 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Bude Crooklets                                                | SS20300720              | 20                     | 0 | 20           | 0* | 2                        | 0 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Bude Sandy Mouth                                              | SS20200990              | 20                     | 0 | 20           | 0* | 2                        | 0 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Hartland Quay                                                 | SS22302485              | 20                     | 0 | 20           | 0* | 2                        | 0 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Westward Ho!                                                  | SS43252940              | 20                     | 0 | 20           | 0* | 2                        | 0 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |                        |   |              |    |                          |   |                |   |        |    |              |   |                           |   |         |   |
| Instow                                                        | SS47173044              | 20                     | 0 | 20           | 0* | 2                        | 0 | 2              | 2 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Saunton Sands                                                 | SS44553760              | 19                     | 0 | 20           | 0* | 2                        | 0 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Croyde Bay                                                    | SS43473930              | 19                     | 0 | 20           | 0* | 2                        | 0 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Woolacombe Putsborough                                        | SS44754085              | 20                     | 0 | 20           | 0* | 2                        | 0 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Woolacombe Village                                            | SS45624370              | 20                     | 0 | 20           | 0* | 2                        | 0 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |                        |   |              |    |                          |   |                |   |        |    |              |   |                           |   |         |   |
| Ilfracombe Tunnels Beach                                      | SS51454780              | 20                     | 0 | 20           | 0* | 2                        | 1 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Ilfracombe                                                    |                         |                        |   |              |    |                          |   |                |   |        |    |              |   |                           |   |         |   |
| Capstone (Wildersmouth)                                       | SS51824790              | 20                     | 0 | 20           | 0* | 2                        | 0 | 2              | 1 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Ilfracombe Hele                                               | SS53554792              | 20                     | 0 | 20           | 0* | 2                        | 1 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Combe Martin                                                  | SS57724732              | 20                     | 0 | 20           | 0* | 2                        | 0 | 0              | 0 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
| Lynmouth                                                      | SS72504975              | 20                     | 0 | 20           | 0* | 2                        | 0 | 2              | 1 | 20     | 0  | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                               |                         |                        |   |              |    |                          |   |                |   |        |    |              |   |                           |   |         |   |
| Porlock Weir                                                  | SS86404790              | 21                     | 0 | 21           | 0* | 0                        | 0 | 0              | 0 | 21     | 0* | 21           | 0 | 21                        | 0 | 21      | 0 |
| Minehead Terminus                                             | SS97304650              | 21                     | 0 | 21           | 0* | 0                        | 0 | 0              | 0 | 21     | 0* | 21           | 0 | 21                        | 0 | 21      | 0 |
| Dunster North West                                            | SS99704550              | 21                     | 0 | 21           | 0* | 0                        | 0 | 0              | 0 | 21     | 0* | 21           | 0 | 21                        | 0 | 21      | 0 |
| Blue Anchor West                                              | ST02304350              | 21                     | 0 | 21           | 0* | 0                        | 0 | 0              | 0 | 21     | 0* | 21           | 0 | 21                        | 0 | 21      | 0 |
| Burnham Jetty                                                 | ST30204880              | 21                     | 0 | 21           | 0* | 1                        | 0 | 0              | 0 | 21     | 0* | 21           | 0 | 21                        | 0 | 21      | 0 |
| (* Denotes waiver granted because of geographical conditions) |                         |                        |   |              |    |                          |   |                |   |        |    |              |   |                           |   |         |   |

(\* Denotes waiver granted because of geographical conditions)

**Section 4**  
**Bathing Waters Survey — 1994 Results (United Kingdom)**  
**Compliance with Bathing Water Directive (76/160/EEC): Other Parameters**

**South Western Region (contd)**

| Bathing Water                                                 | Notional Grid Reference | pH                                              |   | Transparency |    | Salmonella |   | Entero-Viruses |   | Colour |    | Mineral Oils |   | Surface Active Substances |   | Phenols |   |
|---------------------------------------------------------------|-------------------------|-------------------------------------------------|---|--------------|----|------------|---|----------------|---|--------|----|--------------|---|---------------------------|---|---------|---|
|                                                               |                         | F                                               |   | F            |    | F          |   | F              |   | F      |    | F            |   | F                         |   | F       |   |
|                                                               |                         | Number of Observations (Number of Failures - F) |   |              |    |            |   |                |   |        |    |              |   |                           |   |         |   |
| Berrow                                                        |                         |                                                 |   |              |    |            |   |                |   |        |    |              |   |                           |   |         |   |
| North of Unity Farm                                           | ST29305450              | 22                                              | 0 | 22           | 0* | 1          | 0 | 0              | 0 | 22     | 0* | 22           | 0 | 22                        | 0 | 22      | 0 |
| Brean                                                         | ST29605850              | 22                                              | 0 | 22           | 0* | 1          | 0 | 0              | 0 | 22     | 0* | 22           | 0 | 22                        | 0 | 22      | 0 |
| Weston-s-Mare                                                 |                         |                                                 |   |              |    |            |   |                |   |        |    |              |   |                           |   |         |   |
| Uphill Slipway                                                | ST31205880              | 23                                              | 0 | 23           | 0* | 2          | 1 | 0              | 0 | 23     | 0* | 23           | 0 | 23                        | 0 | 23      | 0 |
| Weston-s-Mare Main                                            | ST31606070              | 23                                              | 0 | 23           | 0* | 2          | 0 | 2              | 0 | 23     | 0* | 23           | 0 | 23                        | 0 | 23      | 0 |
| Weston-s-Mare Sand Bay                                        | ST33006350              | 23                                              | 0 | 23           | 0* | 2          | 0 | 2              | 0 | 22     | 0* | 22           | 0 | 22                        | 0 | 22      | 0 |
| Clevedon Beach                                                | ST39807120              | 22                                              | 0 | 22           | 0* | 1          | 0 | 1              | 1 | 22     | 0* | 22           | 0 | 22                        | 0 | 22      | 0 |
| (* Denotes waiver granted because of geographical conditions) |                         |                                                 |   |              |    |            |   |                |   |        |    |              |   |                           |   |         |   |

(\* Denotes waiver granted because of geographical conditions)

**Welsh Region**

| Bathing Water                                                  | National Grid Reference | pH |   | Transparency           |    | Salmonella |   | Entero-Viruses           |   | Colour |   | Mineral Oils |   | Surface Active Substances |   | Phenols |   |
|----------------------------------------------------------------|-------------------------|----|---|------------------------|----|------------|---|--------------------------|---|--------|---|--------------|---|---------------------------|---|---------|---|
|                                                                |                         |    |   | Number of Observations |    |            |   | (Number of Failures - F) |   |        |   |              |   |                           |   |         |   |
|                                                                |                         | F  |   | F                      |    | F          |   | F                        |   | F      |   | F            |   | F                         |   | F       |   |
| Jacksons Bay Barry                                             | ST12206657              | 2  | 0 | 17                     | 0* | 2          | 0 | 0                        | 0 | 19     | 0 | 18           | 0 | 19                        | 0 | 19      | 0 |
| Whitmore Bay Barry                                             | ST11456625              | 2  | 0 | 17                     | 0* | 2          | 1 | 0                        | 0 | 19     | 0 | 18           | 0 | 19                        | 0 | 19      | 0 |
| Cold Knap Barry                                                | ST09656640              | 2  | 0 | 16                     | 0* | 2          | 0 | 0                        | 0 | 19     | 0 | 18           | 0 | 19                        | 0 | 19      | 0 |
| Southerndown                                                   | SS88407290              | 2  | 0 | 20                     | 0* | 2          | 1 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Trecco Bay Porthcawl                                           | SS83107630              | 2  | 0 | 18                     | 0* | 2          | 0 | 0                        | 0 | 18     | 0 | 18           | 0 | 18                        | 0 | 18      | 0 |
|                                                                |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Sandy Bay Porthcawl                                            | SS82407650              | 2  | 0 | 19                     | 0* | 2          | 0 | 0                        | 0 | 19     | 0 | 19           | 0 | 19                        | 0 | 19      | 0 |
| Rest Bay Porthcawl                                             | SS80007790              | 2  | 0 | 19                     | 0* | 2          | 1 | 0                        | 0 | 19     | 0 | 19           | 0 | 19                        | 0 | 19      | 0 |
| Aberafan                                                       | SS73908960              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Swansea Bay                                                    | SS64409210              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Bracelet Bay                                                   | SS63008710              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                                |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Limeslade Bay                                                  | SS62508700              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Langland Bay                                                   | SS60608710              | 2  | 0 | 20                     | 0* | 2          | 0 | 2                        | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Caswell Bay                                                    | SS59108740              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Oxwich Bay                                                     | SS50708620              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Port Eynon Bay                                                 | SS47208480              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                                |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| Rhossili                                                       | SS41409000              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Pembrey                                                        | SS40009980              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Pendine                                                        | SN23800740              | 2  | 0 | 19                     | 0* | 2          | 0 | 0                        | 0 | 19     | 0 | 19           | 0 | 19                        | 0 | 19      | 0 |
| Amroth                                                         | SN16700680              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Saundersfoot                                                   | SN14100470              | 2  | 0 | 20                     | 0* | 2          | 0 | 0                        | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
|                                                                |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |
| ( * Denotes waiver granted because of geographical conditions) |                         |    |   |                        |    |            |   |                          |   |        |   |              |   |                           |   |         |   |

(\* Denotes waiver granted because of geographical conditions)



**Section 4**  
**Bathing Waters Survey — 1994 Results (United Kingdom)**  
**Compliance with Bathing Water Directive (76/160/EEC): Other Parameters**

**Welsh Region (contd)**

| Bathing Water                                                 | National Grid Reference | pH                                              |   | Transparency |    | Salmonella |   | Entero-Viruses |   | Colour |   | Mineral Oils |   | Surface Active Substances |   | Phenols |   |
|---------------------------------------------------------------|-------------------------|-------------------------------------------------|---|--------------|----|------------|---|----------------|---|--------|---|--------------|---|---------------------------|---|---------|---|
|                                                               |                         | Number of Observations (Number of Failures - F) |   |              |    |            |   |                |   |        |   |              |   |                           |   |         |   |
|                                                               |                         | F                                               |   | F            |    | F          |   | F              |   | F      |   | F            |   | F                         |   | F       |   |
| Tenby North                                                   | SN13450080              | 2                                               | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Tenby South                                                   | SS13259985              | 2                                               | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Broadhaven                                                    | SM86101380              | 3                                               | 0 | 20           | 0* | 2          | 1 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Newgale                                                       | SM84602170              | 3                                               | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Whitesands                                                    | SM73002700              | 3                                               | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Newport                                                       | SN05304070              | 3                                               | 0 | 19           | 0* | 2          | 0 | 2              | 0 | 19     | 0 | 19           | 0 | 19                        | 0 | 19      | 0 |
| Traeth Gwyn New Quay                                          | SN39805970              | 3                                               | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 19     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Aberystwyth South                                             | SN57908140              | 3                                               | 0 | 20           | 0* | 2          | 0 | 2              | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Aberystwyth North                                             | SN58308220              | 3                                               | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Borth                                                         | SN60609010              | 3                                               | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Aberdyfi                                                      | SN60729580              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Tywyn                                                         | SH57670032              | 2                                               | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Fairbourne                                                    | SH60911307              | 2                                               | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Barmouth                                                      | SH60841590              | 2                                               | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Llandanwg                                                     | SH56692818              | 2                                               | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Harlech                                                       | SH56763148              | 2                                               | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Morfa Bychan                                                  | SH54213595              | 2                                               | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Criccieth                                                     | SH50333807              | 2                                               | 0 | 20           | 0* | 2          | 1 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Pwllheli                                                      | SH37103407              | 2                                               | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Abersoch                                                      | SH31682772              | 2                                               | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Morfa Dinlle                                                  | SH43495669              | 2                                               | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Rhosneigr                                                     | SH32377212              | 2                                               | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Trearddur Bay                                                 | SH25567891              | 2                                               | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Benllech                                                      | SH52688256              | 2                                               | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Llandudno West Shore                                          | SH76558165              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Llandudno North Shore                                         | SH79188227              | 2                                               | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Colwyn Bay                                                    | SH85847917              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Kinmel Bay (Sandy Cove)                                       | SH97808060              | 2                                               | 0 | 20           | 0* | 2          | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Rhyl                                                          | SJ00208260              | 2                                               | 0 | 20           | 0* | 2          | 1 | 2              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| Prestatyn                                                     | SJ05408390              | 2                                               | 0 | 21           | 0* | 2          | 0 | 0              | 0 | 21     | 0 | 21           | 0 | 21                        | 0 | 21      | 0 |
| West Kirby                                                    | SJ21008680              | 2                                               | 0 | 20           | 0* | 2          | 0 | 2              | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      | 0 |
| (* Denotes waiver granted because of geographical conditions) |                         |                                                 |   |              |    |            |   |                |   |        |   |              |   |                           |   |         |   |

(\* Denotes waiver granted because of geographical conditions)

**Section 4**  
**Bathing Waters Survey — 1994 Results (United Kingdom)**  
**Compliance with Bathing Water Directive (76/160/EEC): Other Parameters**

| <b>North West Region</b> |                         |    |   |                        |    |                          |   |                |   |        |   |              |   |                           |   |         |
|--------------------------|-------------------------|----|---|------------------------|----|--------------------------|---|----------------|---|--------|---|--------------|---|---------------------------|---|---------|
| Bathing Water            | National Grid Reference | pH |   | Transparency           |    | Salmonella               |   | Entero-Viruses |   | Colour |   | Mineral Oils |   | Surface Active Substances |   | Phenols |
|                          |                         |    |   |                        |    |                          |   |                |   |        |   |              |   |                           |   |         |
|                          |                         |    |   | Number of Observations |    | (Number of Failures - F) |   |                |   |        |   |              |   |                           |   |         |
|                          |                         |    |   | F                      |    | F                        |   | F              |   | F      |   | F            |   | F                         |   | F       |
| Meols                    | SJ23009060              | 2  | 0 | 20                     | 0* | 2                        | 0 | 2              | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Moreton                  | SJ25709180              | 2  | 0 | 20                     | 0* | 2                        | 0 | 0              | 0 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| New Brighton             | SJ28709370              | 2  | 0 | 20                     | 0* | 2                        | 2 | 2              | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Formby                   | SD27701000              | 1  | 0 | 20                     | 0* | 2                        | 0 | 2              | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Ainsdale                 | SD29701290              | 1  | 0 | 20                     | 0* | 2                        | 0 | 2              | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Southport                | SD32201790              | 1  | 0 | 20                     | 0* | 2                        | 1 | 2              | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| St Annes                 | SD31802830              | 3  | 0 | 20                     | 0* | 2                        | 0 | 2              | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| St Annes North           | SD30403050              | 3  | 0 | 20                     | 0* | 2                        | 0 | 2              | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Blackpool South          | SD30403380              | 3  | 0 | 20                     | 0* | 2                        | 1 | 2              | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Blackpool Central        | SD30603560              | 3  | 0 | 20                     | 0* | 2                        | 1 | 2              | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Blackpool North          | SD30503640              | 3  | 0 | 20                     | 0* | 2                        | 0 | 2              | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Bispham                  | SD30703970              | 3  | 0 | 20                     | 0* | 2                        | 0 | 2              | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Cleveleys                | SD31204330              | 3  | 0 | 20                     | 0* | 2                        | 0 | 2              | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Fleetwood                | SD33604850              | 2  | 0 | 20                     | 0* | 2                        | 0 | 2              | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Heysham - Half Moon Bay  | SD41306180              | 2  | 0 | 20                     | 0* | 2                        | 0 | 2              | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Morecambe South          | SD42206360              | 2  | 0 | 20                     | 0* | 2                        | 0 | 2              | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Morecambe North          | SD44106500              | 2  | 0 | 20                     | 0* | 2                        | 0 | 2              | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Bardsea                  | SD30007400              | 2  | 0 | 20                     | 0* | 2                        | 0 | 2              | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Aldingham                | SD28307090              | 2  | 0 | 20                     | 0* | 2                        | 0 | 2              | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Newbiggin                | SD27306940              | 2  | 0 | 20                     | 0* | 2                        | 0 | 2              | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Walney Biggor Bank       | SD17806730              | 2  | 0 | 20                     | 0* | 2                        | 0 | 2              | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Walney Sandy Gap         | SD17506810              | 2  | 0 | 20                     | 0* | 2                        | 0 | 2              | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Walney West Shore        | SD17007000              | 2  | 0 | 20                     | 0* | 2                        | 0 | 2              | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Roan Head                | SD19807580              | 2  | 0 | 20                     | 0* | 2                        | 0 | 2              | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Askam-in-Furness         | SD20907820              | 2  | 0 | 20                     | 0* | 2                        | 0 | 2              | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Haverigg                 | SD16007780              | 2  | 0 | 20                     | 0* | 2                        | 0 | 2              | 2 | 19     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Silecroft                | SD12008120              | 2  | 0 | 20                     | 0* | 2                        | 0 | 0              | 0 | 19     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Seascale                 | NY03400100              | 2  | 0 | 20                     | 0* | 2                        | 0 | 2              | 2 | 19     | 0 | 20           | 0 | 20                        | 0 | 20      |
| St Bees                  | NX95901170              | 2  | 0 | 20                     | 0* | 2                        | 0 | 2              | 1 | 19     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Allonby South            | NY06604060              | 2  | 0 | 20                     | 0* | 2                        | 0 | 2              | 2 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Allonby                  | NY07804240              | 2  | 0 | 20                     | 0* | 2                        | 0 | 2              | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Silloth                  | NY09405280              | 2  | 0 | 20                     | 0* | 2                        | 0 | 2              | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |
| Skinburness              | NY12605650              | 2  | 0 | 20                     | 0* | 2                        | 0 | 2              | 1 | 20     | 0 | 20           | 0 | 20                        | 0 | 20      |

(\* Denotes waiver granted because of geographical conditions)



## APPENDIX B

### UPDATE ON BATHING WATER IMPROVEMENT SCHEMES IN ENGLAND AND WALES

The 1990 and 1992 NRA reports on Bathing Water Quality presented details of the Water Service Companies' compliance schemes planned or in hand within each Region. This Appendix updates that information on the basis of DoE's report to the European Commission of September 1994. The report covers 110 schemes included either in the 1989 UK bathing water improvement programme or added subsequently.

Here the information is presented in three sections - a list of the schemes completed by June 1994; details of schemes where changes or additions have been made to the information presented in previous NRA reports; and a list of schemes remaining in progress after June 1994.

#### SECTION 1 - SCHEMES COMPLETED BY JUNE 1994

By June 1994 the total number of schemes completed in the UK since the start of the bathing water improvement programme reached 37, covering 58 bathing waters (30 schemes covering 53 bathing waters in England and Wales).

| Region                     | Scheme                                                                                                                                                                        | Bathing Waters                                                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Anglian                    | Heacham/Hunstanton                                                                                                                                                            | Heacham<br>Hunstanton                                                                                                                                                              |
| Northumbria<br>& Yorkshire | Guisborough<br>Newbiggin<br><br>Seaton Carew<br><br>Seaton Sluice<br>Flamborough<br>Withernsea                                                                                | Saltburn<br>Newbiggin North<br>Newbiggin South<br>Seaton Carew Centre<br>Seaton Carew North<br>Seaton Carew North Gare<br>Seaton Sluice<br>Flamborough South Landing<br>Withernsea |
| North West                 | Bardsea<br>Newbiggin<br>Skinburness                                                                                                                                           | Bardsea<br>Newbiggin<br>Skinburness                                                                                                                                                |
| Southern                   | Cowes<br>Eastney/Southsea<br><br>Joss Bay/Broadstairs<br><br>Ryde<br>Seaford/Newhaven<br><br>St Helens Inland STW<br>St Mary's Bay/Littlestone<br><br>Totland Bay/Colwell Bay | Cowes<br>Eastney<br>Southsea<br>Joss Bay<br>Broadstairs<br>Ryde<br>Seaford<br>Newhaven<br>St Helens<br>St Mary's Bay<br>Littlestone<br>Totland<br>Colwell Bay                      |

## SOUTHERN REGION

|                              |                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Scheme:                      | Bembridge                                                                                                                                                                                                                                                                                                                                                      |
| Bathing Waters:              | Bembridge, Whitecliffe Bay                                                                                                                                                                                                                                                                                                                                     |
| Expected Date of Compliance: | Usually comply                                                                                                                                                                                                                                                                                                                                                 |
| Description:                 | Sewerage transfer to Sandown STW                                                                                                                                                                                                                                                                                                                               |
| Scheme Completion:           | 05/96                                                                                                                                                                                                                                                                                                                                                          |
| Note:                        | Difficulties with land acquisition are causing delay. As with Ventnor the opportunity was taken to review the original proposals leading to the chosen option which is supported by the local NRA as modelling suggested the discharge from the proposed outfall could impact on the Solent Estuary.                                                           |
| Scheme:                      | Calshot                                                                                                                                                                                                                                                                                                                                                        |
| Bathing Waters:              | Calshot                                                                                                                                                                                                                                                                                                                                                        |
| Expected Date of Compliance: | Already complies                                                                                                                                                                                                                                                                                                                                               |
| Description:                 | Sewage transfer from Ashlett Creek WTW, closure of Ashlett Creek and pumped transfer to secondary treatment at existing WTW at Peel Common.                                                                                                                                                                                                                    |
| Scheme Completion:           | 02/96                                                                                                                                                                                                                                                                                                                                                          |
| Note:                        | The construction of a new wastewater treatment at Ashlett Creek is opposed by New Forest DC and Hampshire CC. Alternative solution is to transfer flow to Peel Common wastewater treatment works. This proposal is subject to satisfactory negotiations with National Power who are the owners of the cable tunnel through which the main will be constructed. |
| Scheme:                      | Dover and Folkestone                                                                                                                                                                                                                                                                                                                                           |
| Bathing Waters:              | Folkestone, Sandgate                                                                                                                                                                                                                                                                                                                                           |
| Expected Date of Compliance: | Some already comply                                                                                                                                                                                                                                                                                                                                            |
| Description:                 | Primary settlement and long sea outfall                                                                                                                                                                                                                                                                                                                        |
| Scheme Completion:           | 04/98                                                                                                                                                                                                                                                                                                                                                          |
| Note:                        | Planning application for primary treatment works was refused September 1992. New application approved December 1993 for a combined scheme serving both Dover and Folkestone.                                                                                                                                                                                   |
| Scheme:                      | Herne Bay May St. STW                                                                                                                                                                                                                                                                                                                                          |
| Bathing Waters:              | Herne Bay                                                                                                                                                                                                                                                                                                                                                      |
| Expected Date of Compliance: | 1995                                                                                                                                                                                                                                                                                                                                                           |
| Description:                 | Extensions to inland sewage treatment works and sewage transfer.                                                                                                                                                                                                                                                                                               |
| Scheme Completion:           | 04/95                                                                                                                                                                                                                                                                                                                                                          |
| Scheme:                      | Pevensey Bay: Langney Point Outfall                                                                                                                                                                                                                                                                                                                            |
| Bathing Waters:              | Pevensey Bay                                                                                                                                                                                                                                                                                                                                                   |
| Expected Date of Compliance: | Usually complies                                                                                                                                                                                                                                                                                                                                               |
| Description:                 | Primary settlement and long sea outfall                                                                                                                                                                                                                                                                                                                        |
| Scheme Completion:           | 03/96                                                                                                                                                                                                                                                                                                                                                          |
| Scheme:                      | Shoreham Area Sewage Disposal                                                                                                                                                                                                                                                                                                                                  |
| Bathing Waters:              | South Lancing, Southwick                                                                                                                                                                                                                                                                                                                                       |
| Expected Date of Compliance: | 1996                                                                                                                                                                                                                                                                                                                                                           |
| Description:                 | Primary treatment works, long sea outfall and transfer                                                                                                                                                                                                                                                                                                         |
| Scheme Completion:           | 11/95                                                                                                                                                                                                                                                                                                                                                          |

Scheme: St Helens Outfall Improvements  
 Bathing Waters: St Helens  
 Expected Date of Compliance: Usually complies  
 Description: Wastewater transfer from existing outfall to headworks/outfall at Ryde  
 Scheme Completion: 04/95

Scheme: Ventnor  
 Bathing Waters: Ventnor  
 Expected Date of Compliance: 1997  
 Description: Sewage transfer to Sandown WTW  
 Scheme Completion: 04/97  
 Note: Serious problems were identified during the development of this scheme; extensive site investigations revealed evidence of landslips, artesian groundwater, and unstable ground conditions in the area where the Headworks were to be built. Continuous monitoring of the boreholes revealed evidence that the ground movement was even more pronounced than first thought, making the scheme non-viable on technical grounds. A complete review of the perceived solutions was undertaken, leading to the selection of a flow transfer scheme to the existing Primary treatment works at Sandown as providing the most cost effective and least risk solution to the problems identified. Commissioning has been delayed by some 23 months but the result will be to secure a better solution in all respects.

Scheme: Worthing Area Sewage Disposal  
 Bathing Waters: Southwick, South Lancing, Worthing  
 Expected Date of Compliance: 1996  
 Description: Primary treatment works at East Worthing, long sea outfalls and sewage transfer from West Worthing.  
 Scheme Completion: 03/96

## SOUTH WESTERN REGION

Scheme: Fowey  
 Bathing Waters: Readymoney Cove  
 Expected Date of Compliance: Usually complies  
 Description: Provide collector sewers and pumping stations to transfer sewage to a new STW. Treat to secondary level and discharge through new outfall.  
 Scheme Completion: 03/96

Scheme: Gorran Haven Sewerage and Sewage Treatment  
 Bathing Waters: Gorran Haven Little Perhaver and Vault  
 Expected Date of Compliance: 1995  
 Description: Collect all flows and pump to STW outside of village for secondary treatment and discharge via existing outfall.  
 Scheme Completion: 07/94

|                              |                                                                                                                                                                                                                                                          |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Scheme:                      | Ilfracombe Sewerage and Sewage Treatment                                                                                                                                                                                                                 |
| Bathing Waters:              | Ilfracombe Tunnels, Capstone and Hele                                                                                                                                                                                                                    |
| Expected Date of Compliance: | 1996                                                                                                                                                                                                                                                     |
| Description:                 | Resewerage and provision of storage. Provide new sewage treatment works to treat to secondary level plus UV disinfection. Discharge through existing outfall.                                                                                            |
| Scheme Completion:           | 06/96                                                                                                                                                                                                                                                    |
| Note:                        | Completion now six months later than previously advised due to delays in obtaining planning consent from local council.                                                                                                                                  |
| Scheme:                      | Lynmouth Sewerage and Sewage Treatment                                                                                                                                                                                                                   |
| Bathing Waters:              | Lynmouth                                                                                                                                                                                                                                                 |
| Expected Date of Compliance: | 1996                                                                                                                                                                                                                                                     |
| Description:                 | Resewerage and provision of storage. Pump flows to remote STW for secondary treatment and UV disinfection. Discharge via extended existing outfall.                                                                                                      |
| Scheme Completion:           | 03/96                                                                                                                                                                                                                                                    |
| Note:                        | Planning approval date is best current estimate. Now three months late due to local planning delays.                                                                                                                                                     |
| Scheme:                      | Penzance Region                                                                                                                                                                                                                                          |
| Bathing Waters:              | St. Ives (Porthgwidden, Porthminster, Porthmeor), Mounts Bay (Little Holgus, Heliport, Penzance, Wherry Town), Carbis Bay (Station and Porth Kidney)                                                                                                     |
| Expected Date of Compliance: | 1995 (1996 for Porthgwidden)                                                                                                                                                                                                                             |
| Description:                 | Resewerage and provision of storage, construction of numerous pumping stations, transfer of mains and sewers to Hayle. Provision of secondary treatment and sludge treatment capacity, construction of long sea outfall and two storm overflow outfalls. |
| Scheme Completion:           | 04/95 (except St Ives pumping station 09/95)                                                                                                                                                                                                             |
| Note:                        | St Ives pumping station was subject to planning delays, planning approval granted in January 1994.                                                                                                                                                       |
| Scheme:                      | Perranporth STW                                                                                                                                                                                                                                          |
| Bathing Waters:              | Perranporth (Village and Penhale Sands)                                                                                                                                                                                                                  |
| Expected Date of Compliance: | 1996                                                                                                                                                                                                                                                     |
| Description:                 | Resewerage and storage, uprate pumping stations, new rising main to new STW - chemically enhanced settlement. Discharge through existing outfall with extension.                                                                                         |
| Scheme Completion:           | 09/95                                                                                                                                                                                                                                                    |
| Scheme:                      | Plymouth                                                                                                                                                                                                                                                 |
| Bathing Waters:              | Plymouth Hoe East and West                                                                                                                                                                                                                               |
| Expected Date of Compliance: | 1998                                                                                                                                                                                                                                                     |
| Description:                 | Interception of numerous outfalls into Plymouth Sound, provision of pumping stations and trunk sewers to new secondary treatment works. Sea outfall modification, uprating of other contributing works.                                                  |
| Scheme Completion:           | 06/98                                                                                                                                                                                                                                                    |



|                              |                                                                                                                                                                                 |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Scheme:                      | Salcombe Sewerage and Sewage Treatment                                                                                                                                          |
| Bathing Waters:              | Mill Bay, Salcombe North and South Sands                                                                                                                                        |
| Expected Date of Compliance: | Usually comply                                                                                                                                                                  |
| Description:                 | Urban re sewerage, provision of storage, interception of overflows and outfalls, flow pumping to STW for secondary treatment. Effluent discharge through new estuarial outfall. |
| Scheme Completion:           | 12/94                                                                                                                                                                           |
| Scheme:                      | Seaton and Downderry                                                                                                                                                            |
| Bathing Waters:              | Seaton (Cornwall), Downderry                                                                                                                                                    |
| Expected Date of Compliance: | Usually comply                                                                                                                                                                  |
| Description:                 | Resewerage and interception of outfalls, flow transfers to STW providing full treatment and disinfection. Discharge to river to EC Bathing Water coliform standards.            |
| Scheme Completion:           | 06/96                                                                                                                                                                           |
| Note:                        | Completion now 12 months late on previous date due to planning delays.                                                                                                          |
| Scheme:                      | St Austell Menagwins STW                                                                                                                                                        |
| Bathing Waters:              | Pentewan                                                                                                                                                                        |
| Expected Date of Compliance: | Already complies                                                                                                                                                                |
| Description:                 | Uprate sewage treatment works and re sewerage of catchment. Add disinfection if required.                                                                                       |
| Scheme Completion:           | 12/95                                                                                                                                                                           |
| Scheme:                      | St Mawgan (St Columb) STW                                                                                                                                                       |
| Bathing Waters:              | Mawgan Porth                                                                                                                                                                    |
| Expected Date of Compliance: | 1994                                                                                                                                                                            |
| Description:                 | Upgrade sewage treatment works at St Columb major. Construction of tertiary phase to allow bacterial die-off prior to effluent discharge to river Manalhyl if necessary.        |
| Scheme Completion:           | 08/94                                                                                                                                                                           |
| Scheme:                      | Taw/Torridge - Southern Area                                                                                                                                                    |
| Bathing Waters:              | Saunton Sands, Instow, Westward Ho!                                                                                                                                             |
| Expected Date of Compliance: | Instow 1998                                                                                                                                                                     |
| Description:                 | Urban re sewerage and flow attenuation. Transfer of flows to a new STW with secondary treatment, UV disinfection and discharge through a sea outfall.                           |
| Scheme Completion:           | 10/97                                                                                                                                                                           |
| Scheme:                      | Taw/Torridge - Northern Area                                                                                                                                                    |
| Bathing Waters:              | Saunton Sands, Instow, Westward Ho!                                                                                                                                             |
| Expected Date of Compliance: | Instow 1998                                                                                                                                                                     |
| Description:                 | Urban re sewerage and flow attenuation. Extension and secondary treatment to Ashford (Barnstaple) STW. Transfer of flows to Ashford STW. New outfall into Taw estuary           |
| Scheme completion:           | 04/97                                                                                                                                                                           |
| Scheme:                      | Trevone Bay                                                                                                                                                                     |
| Bathing Waters:              | Mother Ivey's Bay, Harlyn Bay, Trevone Bay, Rock, Daymer Bay, Polzeath                                                                                                          |
| Expected Date of Compliance: | 1996                                                                                                                                                                            |
| Description:                 | Intercept discharges and bring to new STW. Some re sewerage. Treat to secondary and UV disinfect. New outfall to estuary.                                                       |
| Scheme Completion:           | 12/96                                                                                                                                                                           |

## WELSH REGION

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Scheme:                      | Aberystwyth                                                                                                                                                                                                                                                                                                                                                                                                         |
| Bathing Waters:              | Aberystwyth South, North                                                                                                                                                                                                                                                                                                                                                                                            |
| Expected Date of Compliance: | 1995                                                                                                                                                                                                                                                                                                                                                                                                                |
| Description:                 | Replace existing pumping station, construct new sewage treatment works, sludge treatment plant.                                                                                                                                                                                                                                                                                                                     |
| Scheme Completion:           | 04/95                                                                                                                                                                                                                                                                                                                                                                                                               |
| Note:                        | Difficulties associated with access and visual impact have led to a change in the proposed solution. The new scheme will now discharge disinfected effluent to the river Rheidol.                                                                                                                                                                                                                                   |
| Scheme:                      | Benllech                                                                                                                                                                                                                                                                                                                                                                                                            |
| Bathing Waters:              | Benllech                                                                                                                                                                                                                                                                                                                                                                                                            |
| Expected Date of Compliance: | 1995                                                                                                                                                                                                                                                                                                                                                                                                                |
| Description:                 | Construction of preliminary treatment works, long sea outfall and associated pumping station, pipelines and roadworks.                                                                                                                                                                                                                                                                                              |
| Scheme Completion:           | 03/95                                                                                                                                                                                                                                                                                                                                                                                                               |
| Note:                        | The expected date of compliance given in previous reports was an error. The outfall has been completed but will not be fully operational until the completion of the treatment works.                                                                                                                                                                                                                               |
| Scheme:                      | Jackson's Bay                                                                                                                                                                                                                                                                                                                                                                                                       |
| Bathing Waters:              | Cold Knap, Whitmore Bay, Jackson's Bay                                                                                                                                                                                                                                                                                                                                                                              |
| Expected Date of Compliance: | 1998                                                                                                                                                                                                                                                                                                                                                                                                                |
| Description:                 | Outfall with pre treatment, transfer works and storm overflow improvements. Primary and secondary treatment.                                                                                                                                                                                                                                                                                                        |
| Scheme Completion:           | 12/97                                                                                                                                                                                                                                                                                                                                                                                                               |
| Scheme:                      | Llandudno West Shore                                                                                                                                                                                                                                                                                                                                                                                                |
| Bathing Waters:              | Llandudno West Shore                                                                                                                                                                                                                                                                                                                                                                                                |
| Expected Date of Compliance: | 1995                                                                                                                                                                                                                                                                                                                                                                                                                |
| Description:                 | Construction of preliminary treatment works, long sea outfall, and associated pumping station. Construction of pipelines and several transfer pumping stations.                                                                                                                                                                                                                                                     |
| Scheme Completion:           | 03/95                                                                                                                                                                                                                                                                                                                                                                                                               |
| Note:                        | It has been envisaged that interception of untreated outfalls on the eastern bank of the River Conwy would ensure the company's outfalls were not responsible for Llandudno failing. It transpired that this view was over-optimistic because of the effect of the Conwy outfalls and the compliance date has been altered to reflect this. The scheme has been delayed by planning and land purchase difficulties. |
| Scheme:                      | Rhosneigr Sewage Treatment                                                                                                                                                                                                                                                                                                                                                                                          |
| Bathing Waters:              | Rhosneigr                                                                                                                                                                                                                                                                                                                                                                                                           |
| Expected Date of Compliance: | Already complies                                                                                                                                                                                                                                                                                                                                                                                                    |
| Description:                 | Construction of secondary treatment works with disinfection. Refurbishment of existing outfall.                                                                                                                                                                                                                                                                                                                     |
| Scheme Completion:           | 03/96                                                                                                                                                                                                                                                                                                                                                                                                               |

|                              |                                                                                                                                                                                                                                                 |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Scheme:                      | Saundersfoot                                                                                                                                                                                                                                    |
| Bathing Waters:              | Saundersfoot                                                                                                                                                                                                                                    |
| Expected Date of Compliance: | 1995                                                                                                                                                                                                                                            |
| Description:                 | General sewerage improvements in town centre, transfer of sewage from Saundersfoot to Tenby, construction of new treatment works at Tenby, modification of Saundersfoot works to provide storm storage and settlement facility.                 |
| Scheme Completion:           | 05/98                                                                                                                                                                                                                                           |
| Note:                        | When work on this scheme commenced, old mineworkings were discovered creating potential danger from methane escape. The company has now decided to relocate the discharge from Saundersfoot to Tenby thus requiring the redesign of the scheme. |
| Scheme:                      | Swansea Bay                                                                                                                                                                                                                                     |
| Bathing Waters:              | Swansea Bay, Bracelet Bay, Limeslade Bay, Langland Bay, Caswell Bay, Oxwich Bay                                                                                                                                                                 |
| Expected Date of Compliance: | 1998                                                                                                                                                                                                                                            |
| Description:                 | Provision of sewage treatment works and sea outfall, interceptor sewers, transfer sewers and pumping stations, modern storm sewer overflow facilities.                                                                                          |
| Scheme Completion:           | 10/97                                                                                                                                                                                                                                           |
| Scheme:                      | Tywyn and Aberdyfi Sewage Treatment                                                                                                                                                                                                             |
| Bathing Waters:              | Tywyn, Aberdyfi                                                                                                                                                                                                                                 |
| Expected Date of Compliance: | Usually comply                                                                                                                                                                                                                                  |
| Description:                 | Construction of medium length outfall, secondary sewage treatment, disinfection and sludge treatment. Pumping stations and mains to transfer flows from Aberdyfi to Tywyn.                                                                      |
| Scheme Completion:           | 06/95                                                                                                                                                                                                                                           |

### SECTION 3 - SCHEMES IN PROGRESS AFTER JUNE 1994

In general, progress on the 66 remaining improvement schemes in England and Wales is on schedule. Completion of some schemes has had to be rephased because of objections, now largely resolved, to planning or discharge consents or the need to follow compulsory land purchase procedures.

As previously stated, the dates shown as scheme completion dates are target dates for the commissioning of the last stage of the remedial works. Depending on the nature of the scheme, water quality improvements may be achieved before the completion of construction and commissioning.

| Region                  | Scheme                       | Scheme completion date | Bathing Waters                                                                                                  |
|-------------------------|------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|
| Anglian                 | Cleethorpes                  | 07/95                  | Cleethorpes                                                                                                     |
|                         | Great Yarmouth               | 06/97                  | Hemsby<br>Caister Point<br>Great Yarmouth South<br>Great Yarmouth Pier<br>Great Yarmouth North<br>Gorleston     |
|                         | Harwich and Dovercourt       | 06/97                  | Dovercourt                                                                                                      |
|                         | Mablethorpe/Sutton on Sea    | 03/95                  | Mablethorpe Town<br>Sutton-on-Sea                                                                               |
| Northumbria & Yorkshire | West Mersea STW Improvements | 12/95                  | West Mersea                                                                                                     |
|                         | West Runton                  | 09/95                  | Sheringham<br>Cromer                                                                                            |
|                         | Berwick                      | post 95                | Spittal                                                                                                         |
|                         | Limekiln Gill                | 05/95                  | Crimdon Park                                                                                                    |
| North West              | Seaham                       | 02/96                  | Seaham Beach<br>Seaham Remand Home                                                                              |
|                         | Whitburn/Roker               | 05/95                  | Roker/Whitburn South<br>Whitburn North                                                                          |
|                         | Whitley Bay                  | 03/96                  | Tynemouth King Edwards Bay<br>Tynemouth Long Sands South<br>Tynemouth Long Sands North<br>Tynemouth Cullercoats |
|                         | Langbaurgh Phase II          | 05/96                  | Whitley Bay<br>Saltburn                                                                                         |
| North West              | Allonby                      | 06/95                  | Allonby<br>Allonby South                                                                                        |
|                         | Askam                        | 04/95                  | Askam-in-Furness                                                                                                |
|                         | Barrow in Furness            | 03/96                  | Aldingham<br>Newbiggin                                                                                          |
|                         | Fylde Coast                  | 03/96                  | Bispham<br>Cleveleys<br>Fleetwood<br>Blackpool South<br>Blackpool North<br>Blackpool Central                    |
|                         | Haverigg                     | 03/96                  | Haverigg                                                                                                        |
|                         | Morecambe                    | 03/97                  | Morecambe North<br>Morecambe South<br>Heysham                                                                   |
|                         | Seascale                     | 03/96                  | Seascale                                                                                                        |
|                         | Silloth                      | 03/96                  | Silloth                                                                                                         |
|                         | Southport                    | 03/96                  | Southport                                                                                                       |
|                         | St Annes                     | 03/96                  | St Annes North<br>St Annes                                                                                      |
|                         | St Bees                      | 03/96                  | St Bees                                                                                                         |



|               |                                       |         |                                   |
|---------------|---------------------------------------|---------|-----------------------------------|
| Southern      | Bembridge Sewage Disposal             | 05/96   | Bembridge                         |
|               |                                       |         | Whitecliffe Bay                   |
|               | Calshot: Transfer of Flow to New STW  | 02/96   | Calshot                           |
|               | Camber Inland STW Modifications       | 03/95   | Camber                            |
|               | Dover and Folkestone: Sewage Disposal | 04/98   | Sandgate                          |
|               |                                       |         | Folkestone                        |
|               | Herne Bay May St. STW                 | 04/95   | Herne Bay                         |
|               | Hove - Portobello: Storm Overflows    | 04/96   | Brighton                          |
|               |                                       |         | Hove                              |
|               | Pennington Outfall Improvements       | 06/96   | Milford-on-Sea                    |
|               |                                       |         | Christchurch Bay                  |
|               | Pevensey Bay: Langney Point Outfall   | 03/96   | Pevensey Bay                      |
|               | Weatherlees Hill WTW                  | 04/95   | Ramsgate                          |
|               |                                       |         | Sandwich Bay                      |
|               | Deal to Weatherlees Hill WTW          | 12/94   | Deal Castle                       |
|               | Shoreham Area Sewage Disposal         | 11/95   | Southwick                         |
| South Western |                                       |         | South Lancing                     |
|               | St Helens Outfall Improvements        | 04/95   | St Helens                         |
|               | Ventnor Sewage Disposal               | 04/97   | Ventnor                           |
|               | Worthing Area Sewage Disposal         | 03/96   | Worthing                          |
|               |                                       |         | South Lancing                     |
|               |                                       |         | Southwick                         |
|               | Combe Martin                          | 12/95   | Combe Martin                      |
|               | Fowey                                 | 03/96   | Readymoney Cove                   |
|               | Gorran Haven                          | 07/94   | Gorran Haven (Vault)              |
|               |                                       |         | Gorran Haven (Little Perhaver)    |
|               | Ilfracombe                            | 06/96   | Ilfracombe (Tunnels)              |
|               |                                       |         | Ilfracombe (Hele)                 |
|               |                                       |         | Ilfracombe (Capstone)             |
|               | Lyme Regis Sewerage and S.Treatment   | 04/95   | Lyme Regis (Cobb)                 |
|               |                                       |         | Lyme Regis (Church)               |
|               | Lynmouth                              | 03/96   | Lynmouth                          |
|               | Penzance Regional Sewerage and S.T    | 04/95   | Marazion and Mounts Bay:          |
|               |                                       |         | Penzance, Heliport, Little Hogus, |
|               |                                       |         | Wherrytown                        |
|               |                                       |         | Carbis Bay (Porth Kidney Sands)   |
|               |                                       |         | Carbis Bay (Station Beach)        |
|               |                                       | 09/95   | Porthmear St Ives                 |
|               |                                       |         | Porthgwidden St Ives              |
|               |                                       |         | Porthminster St Ives              |
|               | Perranporth STW                       | 09/95   | Perranporth (Village End)         |
|               |                                       |         | Perranporth (Penhale Sands)       |
|               | Plymouth                              | 06/98   | Plymouth Hoe (East)               |
|               |                                       |         | Plymouth Hoe (West)               |
|               | Porthallow Sewage Treatment           | no date | Porthallow                        |
|               | Portleven Sewerage and S.Treatment    | 03/95   | Portleven (West)                  |
|               | Salcombe Sewerage and S.Treatment     | 12/94   | Salcombe South                    |
|               |                                       |         | Salcombe North                    |
|               | Seaton and Downderry                  | 06/96   | Mill Bay                          |
|               |                                       |         | Downderry                         |
|               |                                       |         | Seaton (Cornwall)                 |

|        |                                                                                                                                                            |                                                                                           |                                                                                                                                                                                                                                                                        |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | St Agnes<br>St Austell Menagwins STW<br>St Mawgan (St Columb)<br>Taw/Torridge - Southern Area<br><br>Taw/Torridge - Northern Area<br><br>Trevone Regional  | 06/95<br>12/95<br>08/94<br>10/97<br><br>04/97<br><br>12/96                                | Trevaunance Cove<br>Pentewan<br>Mawgan Porth<br>Instow<br>Westward Ho!<br>Saunton Sands<br>Instow<br>Westward Ho!<br>Saunton Sands<br>Polzeath<br>Trevone Bay<br>Mother Ivey's Bay<br>Rock<br>Harlyn Bay<br>Daymer Bay                                                 |
| Thames | Southend-on-Sea                                                                                                                                            | 03/98                                                                                     | Thorpe Bay<br>Westcliffe Bay<br>Shoeburyness                                                                                                                                                                                                                           |
| Welsh  | Aberystwyth<br><br>Benllech<br>Criccieth<br>Jacksons Bay<br><br>Llandudno West Shore<br>Rhosneigr<br>Saundersfoot<br>Swansea Bay<br><br>Tywyn and Aberdyfi | 04/95<br><br>03/95<br>03/95<br>12/97<br><br>03/95<br>03/96<br>05/98<br>10/97<br><br>06/95 | Aberystwyth South<br>Aberystwyth North<br>Benllech<br>Criccieth<br>Whitmore Bay<br>Jacksons Bay<br>West Shore Llandudno<br>Rhosneigr<br>Saundersfoot<br>Oxwich Bay<br>Limeslade Bay<br>Bracelet Bay<br>Langland Bay<br>Swansea Bay<br>Caswell Bay<br>Tywyn<br>Aberdyfi |

Proposal for a  
**COUNCIL DIRECTIVE**  
concerning the quality of bathing water

THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty establishing the European Community, and, in particular, Article 130s(1) thereof,

Having regard to the proposal from the Commission<sup>1</sup>,

In co-operation with the European Parliament<sup>2</sup>,

Having regard to the opinion of the Economic and Social Committee<sup>3</sup>,

Whereas Council Directive 76/160/EEC of 8 December 1975 concerning the quality of bathing water<sup>4</sup>, as last amended by Directive 91/692/EEC<sup>5</sup>, has been amended on a number of occasions: whereas the said Directive should, for reasons of clarity, be recast;

Whereas, in order to protect the environment and public health, it is necessary to reduce the pollution of bathing water and to protect such water against further deterioration;

Whereas the quality of bathing water is an important asset of the tourism sector in the Community; whereas its improvement and its surveillance are also necessary in the framework of the establishment and functioning of the internal market;

Whereas Community action is needed, in accordance with the principle of subsidiarity, in order to ensure basic health protection for bathers throughout the Community, to improve the quality of the aquatic environment by co-ordinating efforts made by Member States and to guarantee a sufficient quality of bathing water for the Community tourism industry;

Whereas all citizens of the Union have a right to health protection and to an unpolluted environment; and whereas the assessment of the quality of bathing water should be made on the basis of criteria harmonized at Community level in order that the public may make informed comparisons;

Whereas the list of parameters to be measured should indicate in the most appropriate way the quality of bathing water and take account of advances in science and technology; whereas there is a need to require the verification of only those parameters which are indispensable for ensuring an adequate protection of human health;

Whereas Member States should remain free to set stricter values than those given in this Directive and to set values for parameters not specified in this Directive;

<sup>1</sup> OJ No L 31, 5.2.1976, p1

<sup>2</sup> OJ No L 377, 31.12.1991, p48

Whereas it should be provided that bathing water will, under certain conditions, be deemed to conform to the relevant parametric values even if a certain proportion of the analytical results or observations recorded during a bathing season do not comply with limits specified, and whereas the rules for determining that proportion should be set out numerically; whereas there is a need to simplify the criteria for compliance laid down in Directive 76/160/EEC;

Whereas Member States should identify all sources which are likely to affect the quality of bathing water and, in the event of non-compliance, take appropriate remedial action;

Whereas to highlight situations where outstanding results are achieved, it is desirable to introduce a standard of "excellent quality" for bathing water;

Whereas, in the case of bathing waters first falling within the scope of this Directive after 31 December 1995 as a result of an increased use by bathers, it is appropriate to allow a period of time for Member States to bring them up to the requisite quality;

Whereas the public should be adequately informed about the quality of bathing waters and about any remedial action taken by the competent authorities;

Whereas Member States should monitor the quality of bathing waters with adequate frequency and analyse them by comparable methods; whereas this frequency can be reduced, under certain conditions, for bathing waters which have previously proved to be of excellent quality;

Whereas bathing should not necessarily be prohibited on the ground that water is not in compliance with the limit values laid down in this Directive; whereas, however, in order to protect the health of bathers, it is necessary for Member States to prohibit bathing in any bathing area every time the pollution represents a danger to public health; whereas the said limit values should be taken into account;

Whereas technical progress may necessitate rapid adaption of the technical requirements laid down in Annex I; whereas, in order to facilitate the introduction of the measures required for this purpose, a procedure should be set up under which the Commission can adopt such adaptations with the assistance of a Committee composed by the representatives of Member States;

Whereas this Directive should not affect the obligations of the Member States concerning the deadlines for transposition into national law and for application indicated in Annex II;

HAS ADOPTED THIS DIRECTIVE:



## Article 1

- 1 This Directive concerns the quality of bathing water, with the exception of water intended for therapeutic purposes and water used in swimming pools.
- 2 For the purposes of this Directive:
  - a “bathing water” means without prejudice to Article 7 all running or still fresh waters or parts thereof and sea water, in which:
    - bathing is explicitly authorized by the competent authorities of each Member State, or
    - bathing is not prohibited and is traditionally practised by a large number of bathers;
  - b “bathing area” means any place where bathing water is found;
  - c “bathing season” means the period during which a large number of bathers can be expected, in the light of local custom, and any local rules which may exist concerning bathing and weather conditions.

Article 1 (adapted)

## Article 2

The physical, chemical and microbiological parameters applicable to bathing water are indicated in Table 1 of Annex I.

Article 2 (adapted)

## Article 3

- 1 Member States shall, for all bathing areas or for each individual bathing area, set the values applicable to bathing water for the parameters given in Table 1 of Annex I.
- 2 The values set pursuant to paragraph 1 may not be less stringent than those given in column I of Table 1 of Annex I. In setting those values, Member States shall endeavour, subject to Article 8, to observe the corresponding values appearing in column G of Table 1 of Annex I as guidelines.
- 3 Member States may fix more stringent values for bathing water than those laid down in the Directive and may fix values for parameters not included in Table 1 of Annex I.

Article 3(1) (adapted)

Article 3(2) and 3(3) (adapted)

Article 7(2) (adapted)

## Article 4

- 1 Member States shall take all measures necessary to ensure that the quality of bathing water at least conforms to the values given in column I of Table 1 of Annex I.

Article 4(1) (adapted)

- 2 In the case of bathing areas first falling within the scope of the second indent of Article 1, paragraph (2)(a) after 31 December 1995, Member States shall take all necessary steps to ensure that, at the start of the third bathing season following identification of a new bathing area, the bathing water there at least conforms to the values given in column I of Table 1 of Annex I.

Article 4(2) (adapted)

- 3 By way of derogation from paragraphs 1 and 2 above, in those cases where the measures taken have not brought about compliance with the values given in column I of Table 1 of Annex I, the competent authority must identify the cause or causes of the non-compliance, and take the necessary action to bring about compliance as soon as possible. The competent authority shall in addition inform the Commission forthwith of the reasons for the failure to comply and of the necessary action to be taken, including a timetable for completion.
- 4 As regards sea water in the vicinity of frontiers between Member States and water crossing frontiers which affect the quality of the bathing water of another Member State, the consequences for the common quality objectives for bathing areas so affected shall be determined in collaboration by the riparian Member States concerned.

The Commission may participate in these deliberations.

## Article 5

- 1 Bathing water shall be deemed to comply with the requirements of this Directive if for each parameter for which there is a value in column I of Table 1 of Annex I the number of samples failing to comply with the relevant value does not exceed the number specified in Table 2 of Annex I.

Compliance shall be assessed on the basis of the results obtained in a bathing season.

Article 5(1) (adapted)

- 2 Bathing water shall be deemed to be of “excellent quality” if:
  - the bathing water conforms to the requirements of this Directive in the manner specified in paragraph (1); and
  - for each parameter for which there is a value in column G of Table 1 of Annex I the number of samples failing to comply with the relevant value does not exceed the number specified in Table 3 of Annex I.

Assessment of whether bathing water is of excellent quality shall be on the basis of the results obtained in a bathing season.

- 3 In assessing compliance with the values in column G and I in Table 1 of Annex I, temporary deviations which are the results of floods, other natural disasters or abnormal weather conditions may be disregarded. The Commission shall be informed of those cases in which this provision has been used.

Article 5(2) (adapted)

- 4 Member States shall ensure that adequate information on bathing water quality is prominently displayed at each bathing area. This shall include, in particular:
- a statement of whether the bathing water complied with the requirements of the Directive in the previous bathing season;
  - most recent information enabling the public to assess bathing water quality during the current bathing season; and
  - information, including a timetable on any remedial works in progress or planned.

The provisions of this paragraph are without prejudice to the implementation of Council Directive 90/313/EEC<sup>6</sup>.

## Article 6

- 1 The competent authorities in the Member States shall sample and analyse and make visual and olfactory inspections of bathing waters during the period specified in paragraph (2) and at least as frequently as is specified in Table 1 of Annex I.

By way of exception, where water quality was excellent in the two previous bathing seasons, according to the criteria set out in Article 5(2) and when no new factor likely to lower the quality of the water has appeared, the sampling frequency during the current bathing season may be half that specified in Table 1 of Annex I.

Article 6(1) (adapted)

- 2 The sampling, analysis and visual and olfactory inspections referred to in paragraph (1) shall begin before the start of the bathing season and continue throughout the duration of the bathing season. The sampling and the inspections should be carried out at places where the daily average density of bathers is highest. Wherever possible samples shall be taken 30 cm below the surface of the water.

Article 6(2) (adapted)

- 3 Competent authorities shall periodically identify all discharges, whether continuous or intermittent, which are likely to affect the quality of bathing water, and assess their significance in relation to the obligations contained in Article 4(1) and to local geographical, tidal and current flow conditions.

They shall, in particular, identify all pollution sources, whether discharges, or contributions from diffuse sources, which might lead to salmonella reaching bathing areas, and shall take appropriate action to avoid pollution from such sources.

Article 6(3) and 6(4) (adapted)

<sup>6</sup> OJ L 158, 23.6.1990, p56

- 4 Competent authorities shall investigate any unexpected sudden deterioration in the quality of bathing water in order to identify the cause and must take immediate and appropriate action to restore the quality of the water.
- 5 Reference methods of analysis for the parameters concerned are set out in Table 1 of Annex I.

Member States which employ other methods shall ensure that the results obtained are equivalent or comparable to those specified in Table 1 of Annex I. They shall inform the Commission of their use and provide evidence of their equivalence or comparability to the reference method. The Commission shall inform the other Member States thereof. The Commission may assess the reliability of such other methods.

Article 6(5) (adapted)

#### Article 7

- 1 Where pollution constitutes a threat to public health Member States shall prohibit bathing at individual bathing areas. Such a threat shall be deemed to exist in a case of significant deviation from the values specified in column I in Table 1 of Annex I, taking local conditions into account.
- 2 Unless the prohibition is permanent the water shall still be considered to be bathing water for the purposes of this Directive.
- 3 Member States which permanently prohibit bathing at individual bathing areas shall forthwith inform the Commission thereof, indicating the reasons why the bathing water cannot be brought into conformity with this Directive's requirements.

#### Article 8

Implementation of the measures taken pursuant to this Directive may under no circumstances lead either directly or indirectly to deterioration of the current quality of bathing water.

Article 7(1)

#### Article 9

Such amendments as are necessary to adapt the content of Annex I to scientific and technical progress, shall be adopted in accordance with the procedures laid down in Article 10.

Article 9 (adapted)

#### Article 10

- 1 The Commission shall be assisted by a committee composed of the representatives of the Member States and chaired by the representative of the Commission.

Article 10 and 11 (adapted)

- 2 The representative of the Commission shall submit to the committee a draft of the measures to be taken. The committee shall deliver its opinion on the draft within a time limit which the chairman may lay down according to the urgency of the matter. The opinion shall be delivered by the



majority laid down in Article 148(2) of the Treaty in the case of decisions which the Council is required to adopt on a proposal from the Commission. The votes of the representatives of the Member States within the committee shall be weighted in the manner set out in that Article. The chairman shall not vote.

- 3 The Commission shall adopt measures which shall apply immediately. However, if these measures are not in accordance with the opinion of the committee, they shall be communicated by the Commission to the Council forthwith. In that event:

the Commission may defer application of the measures which it has decided for a period of three months from the date of communication.

the Council, acting by a qualified majority, may take a different decision within the time limit referred to in the previous paragraph.

## Article 11

Every year, and for the first time by 31 December 1996, the Member States shall send to the Commission a report on the implementation of this Directive in the current year. The report shall be drawn up on the basis of a questionnaire or outline drafted by the Commission in accordance with the procedure laid down in Article 6 of Directive 91/692/EEC.

The questionnaire and outline shall be sent to the Member States six months before the start of the period covered by the report. The report shall be made to the Commission before the end of the year in question.

The Commission shall publish a Community report on the implementation of the directive within four months of receiving the reports from the Member States.

Article 13 amended by Article 3 of Directive 91/692/EEC

## Article 12

Directive 76/160/EEC is hereby repealed with effect from 31 December 1995, without prejudice to the obligation of the Member States as to deadlines for transposition into national law and for application as shown in Annex II.

Reference to the repealed Directive shall be construed as a reference to this Directive and should be read in accordance with the correlation table set out in Annex III.

## Article 13

- 1 Member States shall bring into force the laws, regulations and administrative provisions necessary to comply with this Directive no later than 31 December 1995. They shall forthwith inform the Commission thereof.

When Member States adopt these provisions, these shall contain a reference to this Directive and shall be accompanied by such reference at the time of their official publication. The procedure for such reference shall be adopted by Member States.

Article 12 (adapted)

- 2 Member States shall communicate to the Commission the texts of the main provisions of national law which they adopt in the field covered by this Directive.

#### **Article 14**

This Directive shall enter into force on the twentieth day following that of its publication in the Official Journal of the European Communities.

#### **Article 15**

This Directive is addressed to the Member States.

Done at Brussels,

For the Council  
The President

## ANNEX I

TABLE 1 - QUALITY REQUIREMENTS FOR BATHING WATER

|    | Parameters                                                                                                                                                      | G       | I                                           | Minimum sampling frequency | Method of analysis or inspection                                                                                                                                                                                                                                                                                                                    |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Escherichia coli /100ml                                                                                                                                         | 100     | 2000                                        | Fortnightly                | Incubation at 44°C.<br>Fermentation in multiple tubes. Subculturing of the positive tubes on a confirmation medium. Count according to MPN (most probable number) or membrane filtration and culture on an appropriate medium such as Tergitol lactose agar, endo agar, 0.4% Teepol broth, subculturing and identification of the suspect colonies. |
| 2  | Faecal streptococci /100 ml                                                                                                                                     | 100     | 400 <sup>(1)</sup>                          | Fortnightly                | Litsky method with incubation at 37°C.<br>Count according to MPN (most probable number) or filtration on membrane. Culture on an appropriate medium.                                                                                                                                                                                                |
| 3  | Enteroviruses PFU/10 litres <sup>(2)</sup>                                                                                                                      | -       | 0                                           | Monthly                    | Concentrating by filtration, flocculation, or centrifugation and confirmation                                                                                                                                                                                                                                                                       |
| 4  | Bacteriophages Number/100 ml                                                                                                                                    |         |                                             |                            |                                                                                                                                                                                                                                                                                                                                                     |
| 5  | pH                                                                                                                                                              | -       | 6 to 9                                      | Fortnightly                | Electrometry with calibration at pH 7 and 9                                                                                                                                                                                                                                                                                                         |
| 6  | Colour                                                                                                                                                          | -       | No abnormal change                          | Fortnightly                | Visual inspection or photometry with standards on the Pt.Co scale                                                                                                                                                                                                                                                                                   |
| 7  | Mineral oils                                                                                                                                                    | -       | No film visible on the surface and no odour | Fortnightly                | Visual and olfactory inspection                                                                                                                                                                                                                                                                                                                     |
| 8  | Surface active substances reacting with methylene blue mg/l                                                                                                     | < 0.3   | No lasting foam                             | Fortnightly                | Visual inspection (for the I value),<br>Absorption photometry with methylene blue (for the G value)                                                                                                                                                                                                                                                 |
| 9  | Phenols <sup>(3)</sup>                                                                                                                                          | -       | No specific odour                           | Fortnightly                | Olfactory inspection                                                                                                                                                                                                                                                                                                                                |
| 10 | Transparency m                                                                                                                                                  | 2       | 1 <sup>(4)</sup>                            | Fortnightly                | Secchi's disc                                                                                                                                                                                                                                                                                                                                       |
| 11 | Dissolved oxygen % saturation O <sub>2</sub>                                                                                                                    | -       | 80-120                                      | Fortnightly                | Winklers' method or electrometric method (oxygen meter)                                                                                                                                                                                                                                                                                             |
| 12 | Tarry residues and floating materials such as wood, plastic articles, bottles, containers of glass, plastic, rubber or any other substance. Waste or splinters. | Absence | Absence of sewage solids                    | Fortnightly                | Visual inspection                                                                                                                                                                                                                                                                                                                                   |

- <sup>(1)</sup> In case of abnormal peak value, Member States can within 2 working days retest this parameter. If following retesting a normal value is recorded, the peak value can be disregarded. However, the Commission shall be informed of the number of peak values disregarded for each bathing zone.
- <sup>(2)</sup> This parameter must be measured once in the fortnight before the start of the bathing season. If, during the two preceding bathing seasons, the bathing water complied with the G value for *Escherichia coli* and the I value for faecal streptococci, on the basis of Table 3 and 2 respectively, and the bathing water does not receive discharges of chemically treated sewage, then the parameter needs only to be measured once more. This measurement should be made in the middle of the bathing season.
- <sup>(3)</sup> When bathing water undergoes natural enrichment of this substance, in its unchlorinated form, Member States can, without prejudice to public health protection, waive the related provision of the Directive. In such cases, it shall forthwith inform the Commission thereof.
- <sup>(4)</sup> Where this value cannot be respected for geographic reasons it may be replaced by "No abnormal decrease".



TABLE 2 - NUMBERS OF SAMPLES WHICH NEED NOT COMPLY WITH THE DIRECTIVE'S STANDARDS

| Number of samples taken and analysed | Maximum number which need not conform to the I value |
|--------------------------------------|------------------------------------------------------|
| up to 19 inclusive                   | 0                                                    |
| 20 to 39 inclusive                   | 1                                                    |
| 40 to 59 inclusive                   | 2                                                    |
| Greater than 59                      | 5% of number of samples                              |

TABLE 3 - NUMBERS OF SAMPLES WHICH NEED NOT COMPLY WITH THE DIRECTIVE'S STANDARDS

| Number of samples taken and analysed | Maximum number which need not conform to the G value |
|--------------------------------------|------------------------------------------------------|
| up to 4 inclusive                    | 0                                                    |
| 5 to 9 inclusive                     | 1                                                    |
| 10 to 14 inclusive                   | 2                                                    |
| 15 to 19 inclusive                   | 3                                                    |
| 20 to 24 inclusive                   | 4                                                    |
| 25 to 29 inclusive                   | 5                                                    |
| 30 to 34 inclusive                   | 6                                                    |
| 35 to 39 inclusive                   | 7                                                    |
| 40 to 44 inclusive                   | 8                                                    |
| 45 to 49 inclusive                   | 9                                                    |
| 50 to 54 inclusive                   | 10                                                   |
| 55 to 59 inclusive                   | 11                                                   |
| Greater than 59                      | 20% of number of samples                             |

NB. Annex II and III of the proposal not reproduced in this report.

Brussels, 14 September 1994

**OPINION  
of the  
Economic and Social Committee  
on the  
Proposal for a Council Directive concerning the quality of bathing water  
(COM(94) 36 final)**

On 14 June 1994 the Council decided to consult the Economic and Social Committee, under Article 130 S of the Treaty establishing the European Economic Community, on the

*Proposal for a Council Directive concerning the quality of bathing water  
(COM(94) 36 final).*

The Section for Protection of the Environment, Public Health and Consumer Affairs, which was responsible for preparing the Committee's work on the subject, adopted its Opinion on 15 July 1994. The Rapporteur was Mr PEARSON.

At its 318th Plenary Session (meeting of 14 September 1994), the Economic and Social Committee unanimously adopted the following Opinion:

## **1. Background**

- 1.1 The Commission proposal is an amending Directive to the original Directive 76/160/EEC, which has already been amended a number of times. It has to operate in the light of bordering Directives concerning environmental issues and health and safety issues. Thus to increase accessibility and transparency the present proposal is a consolidated one, taking account of the advance of technology in this area, while not changing the scope of the original Directive.
- 1.2 The aims of the proposal as identified by the Commission are:
  - maintaining and improving protection of the environment and public health;
  - taking advantage of technical progress and focusing on the most significant parameters;
  - simplifying the operation of the Directive, thus consequently reducing the financial burden on Member States;
  - ensuring action by Member States while allowing the necessary time for bathing waters to be brought in line with the Directive's standards.

## **2. General remarks**

- 2.1 The Committee welcomes the principles outlined in the Commission proposals but would point to matters of practical concern and as to whether they can achieve the desired results effectively.
- 2.2 The stated aims of the Directive in seeking to benefit from the experience of the last fifteen years, together with the latest technology, recognizes that the levels of protection afforded by the existing Directive are adequate and that only the parameters are altered.
- 2.3 The proposals take account of the 5th Environmental Programme with its targets for clean waters by the year 2000. However, the Committee thinks it regrettable that it has not been able to consider the proposals for the new Directive on "The Ecological Quality of Water" - all surface water - in parallel, as that Directive will lay down a framework for the whole subject into which the current proposal will need to fit.
- 2.4 The Committee understands the definition of "Bathing Water", accepting that it applies to fresh water and to seawater equally. The adoption of common standards, irrespective of the type of environmental water is appropriate and it is recognized that the standards referred to are specific to the particular use of water. The identified bathing waters - currently 16,400 - are

individually decided upon by the Member States. It is recognized that with some waterways, particularly some commercial waterways, it will be difficult to have waters identified as official bathing areas.

- 2.4.1. The Committee is pleased that those countries who are likely to join the European Union in the near future have indicated their acceptance of the parameters of the proposed new Directive.
- 2.5. The Council meetings at Edinburgh (11-12 December 1992) and Brussels (10-11 December 1993) included and approved a list of Directives which should be reviewed, amongst which was the Directive on Bathing Water. The outcome of that decision has been the change in the legal basis in accordance with the Treaty on European Union at Maastricht, and is now 130S(1). The original Directive was subject to Article 100. There is thereby a radical change in voting procedure, a weighted majority against a necessary unanimous decision previously and the Committee welcomes this change.
- 2.6. The Committee supports the Commission in its stance that basic microbiological requirements cannot vary from Member State to Member State whilst realizing that it is permissible to set more stringent levels appropriate to their own Regions.
- 2.6.1. With respect to visual and olfactory parameters the Committee realizes that Member States will be, under the subsidiarity principle, determining the definition of "abnormal" as required under the Directive Annex.
- 2.7. The scientific basis is changed due to the considerable growth in scientific knowledge on microbiology and in the improvement in analytical techniques: this enables the results of recent findings in microbiological research to be taken into account. Likewise, increased information from epidemiological studies has provided greater understanding of pollution indicators relating to health protection. All this has led to a change in the indicators proposed for microbiological quality.

### 3. Specific comments

- 3.1. The Committee has looked at the revised proposal of the Commission concerning the monitoring of Salmonella and wishes the Commission to further research and establish the public health significance of the changes proposed in the Directive. The Committee welcomes the proposal in the Directive to oblige competent authorities to take appropriate action to identify such sources of Salmonella and to avoid pollution from them. It is recognized that this will require monitoring for Salmonella in relevant circumstances.
- 3.2. One significant change proposed is the adoption of an imperative (I) value for faecal streptococci<sup>1</sup>: there is no wide ranging information from the Member States concerning such a change. There is considerable variance with evidence of the consequential effects of the compliance with the proposed new standard for faecal streptococci. Examination of available data (assessed on the bases of non-harmonized methods of analysis on a Community level) indicates that in some Member States the proposals would result in an effective tightening of standards. This appears to be contrary to the Commission assertion that there be no tightening of standards as a consequence of the changes proposed. Further statistics are necessary to clarify the position.
- 3.3. The proposals as set out in the Directive are stated to have only "minor cost implications" over and above those arising from existing Directives. The improvements resulting from the Urban

<sup>1</sup> Streptococci are bacteria which are key indicators of faecal contamination.



Wastewater Treatment Directive (91/271) are acknowledged, but in that legislation no specific provision is made concerning the microbiological quality of discharges; however, this Directive contains in the Annexes provisions in order to ensure that the requirements of other Council Directives are fulfilled. Therefore, the investment and financial costs incurred in providing additional waste-water treatment and disposal facilities to meet the proposed faecal streptococci parameter and to ensure full compliance with the enterovirus parameter, are likely to be substantial in some Member States with the consequential on-cost to the consumer. A more cost-neutral proposal would be achieved if a faecal streptococci standard was adopted which, in all Member States, is equivalent to the existing faecal coliform standard, whilst ensuring public health remains fully protected.

- 3.4. Bacterial pollution from freshwater rivers discharging close to the bathing water can impact on compliance with the existing Directive already. Under the new proposal the impact of freshwater inputs is likely to become more significant due to the introduction of an "I" value for faecal streptococci which have a longer survival time in waters.
- 3.5. Enterovirus<sup>2</sup> monitoring is subject to the new Directive and the idea is accepted. The Committee however would prefer the approach as set out in the explanatory memorandum and in the Annex to use Bacteriophage and which is envisaged by the Commission in the near future in place of Enteroviruses as being a more practical and cost effective alternative.
- 3.6. The imperative requirement that there should be no sewage solids visible is obviously desirable, but presents practical difficulties due to the non-biogradable plastics in a number of sanitary products. Fine screening of all land-based sewage discharges, including storm discharges, is necessary to remove such solids from sewage. The Commission however needs to make it quite clear in the Directive at Article 4(1) Col. 1, table 1 of Annex 1 that the monitoring is of any relevant discharges and not of the bathing water itself.
- 3.7. Article 5.2 of the Directive introduces the concept of "excellent quality" for waters of a higher quality than required by the "I" value. The Committee believes this to be unwise as the proposed designation in the legislation suggests that compliance with "I" values alone does not provide bathers with adequate protection. The concept of "excellent quality" is better dealt with outside the Directive.
- 3.8. The Committee believes that clean bathing waters, with a deserved reputation for such, are a huge attraction for leisure activity, are an indispensable factor for employment and commercial interests and are important in promoting the health of the population. The "spin off" for the tourist industry is very considerable, going far beyond the activities of swimming and boating. The proposal in Article 5.4. whereby bathers are informed of bathing water quality is important and innovative. Further consideration should be given to competent local authorities publishing annually this readily available information.
- 3.9. It is clear that the dates set out in Articles 12 and 13 are not practicable. It would suggest a period of three years subsequent to the adoption of the Directive by the Council of Ministers especially as the Urban Water Treatment Directive sets dates for the years 1998 and 2000.

Done at Brussels, 14 September 1994

The President of the  
Economic and Social Committee

Susanne TIEMANN

The Secretary-General of the  
Economic and Social Committee

Simon-Pierre NOTHOMB

<sup>2</sup> Enteroviruses are micro-organisms which can be pathogenic and are characteristic of faeces.



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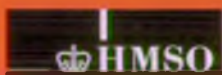
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