NRA-South West 451

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DEVON AREA INTERNAL REPORT

INVESTIGATION INTO INPUTS IN THE ERME ESTUARY AND THIER EFFECT ON THE BATHING WATERS AT MOTHECOMBE .

MARCH 1996

DEV/E/14/96

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South Western Region

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Area Manager (Devon)

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Investigation into inputs
in the Erme estuary and
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INVESTIGATION INTO INPUTS IN THE ERME ESTUARY AND THEIR EFFECT ON THE BATHING WATER AT MOTHECOMBE

1. INTRODUCTION

The bathing waters at Mothecombe failed to comply with the bathing water directive in 1986 and 1994.

In 1989, a survey was carried out that concluded that contaminated water from the Erme estuary was one cause of bathing water failure at Mothecombe (Report TWU/89/11).

In 1992, four small surveys were carried out (Draft report TWU/93/28) to assess the impact of different inputs to the estuary and river Erme. This report concluded the following:

> Holbeton STW effluent appears to be capable of causing failures in the bathing waters at Mothecombe.
>
> Under low river flows, River Erme water from the tidal limit does not reach the estuary mouth in one ebb tide. But under high river flows, the time of travel will be significantly reduced and there may be freshwater discharge throughout the tidal cycle at very high flows.
>
> The discharges from Ivybridge and Ermington STW's have no significant impact on bacteriological concentrations in the river under dry weather conditions.

There is also a STW at Modbury that discharges into Ayleston brook. Ayleston brook has not been sampled in any of the previous surveys.

2. TERMS OF REFERENCE

2.1 OBJECTIVES

A request was received from Scientific officer (Quality Assessment) to investigate the possible sources of contamination to the river Erme that could cause non-compliance under the bathing waters directive at Mothecombe.

2.3 PROJECT TEAM

T. Cronin (Project Leader)
W. Loxton (Project Manager)
A. Loxton (Project Technician, author)

ENVIRONMENT AGENCY
SOUTH WEST REGION
LIBRARY

ENVIRONMENT AGENCY
131629

3. METHOD

Following discussions with Senior Scientist (Scheme development), who had been responsible for the two previous reports written on non-compliance at Mothecombe, it was decided to carry out sampling over a six week period at different sites on the Erme and at inputs to the estuary. The sampling sites are shown on figure 1.

Rainfall data and river flows were obtained from Devon area Hydrometrics department who monitor daily rainfall from Higher Ludbrook, Ermington and river flows at Ermington

4. RESULTS

4.1 HISTORIC RESULTS

All the data for the routine bathing water samples for Mothecombe can be seen in Appendix I together with the routine samples for the stream at Mothecombe and the river Erme at Sequers bridge (above the tidal limit).

Analysis of the routine bathing water samples taken from 1986 to 1995 show that Mothecombe failed to comply with the bathing water directive in 1986 (based on one exceedance of faecal coliforms in 12) and in 1994 (based on one exceedance for faecal coliforms and a second exceedance for both total and faecal coliforms).

In 1988, there was one exceedance in both the total and faecal coliform levels, in 1991 there was one faecal coliform exceedance. In 1993, although there was no actual failure on two occasions the concentration of presumptive faecal coliform was >2000/100ml but the confirmed was less than 2000/100ml.

4.2 INVESTIGATION RESULTS

The data collected during the sampling period (08/12/95 to 22/01/96), is shown in Table 1 (see Appendix II).

See Appendix III for total daily flow and rainfall results for December 1995 and January 1996 when the investigation was carried out.

5. DISCUSSION

During the sampling period differing rainfall conditions and river flows were experienced.

On the 11/01/96 it was not possible to collect all of the samples due to high river flows.

On 16/01/96 the storm overflow from Holbeton STW was operating.

The highest bacterial levels were recorded after a period of very heavy rainfall that resulted in high river flows.

From the data collected any influence that Holbeton STW may have on the bacterial levels in the Erme estuary appeared minimal downstream above Aylestone brook and at the estuary mouth. This appeared to be the case even when the storm overflow was operating. Holbeton STW will have secondary treated effluent by the year 2005 (AMP2 investment)

During the sampling period it would appear that the bacterial quality at the mouth is better than at Sequers bridge (above the tidal limit).

The discharge from Modbury STW did not lead to high bacterial levels in Ayleston brook

6. CONCLUSION

During the sampling period the following can be concluded:

1. Holbeton STW did not have a significant effect on the the bacterial levels at the estuary mouth.

2. Modbury STW had no significant effect on the bacterial levels at the estuary mouth.

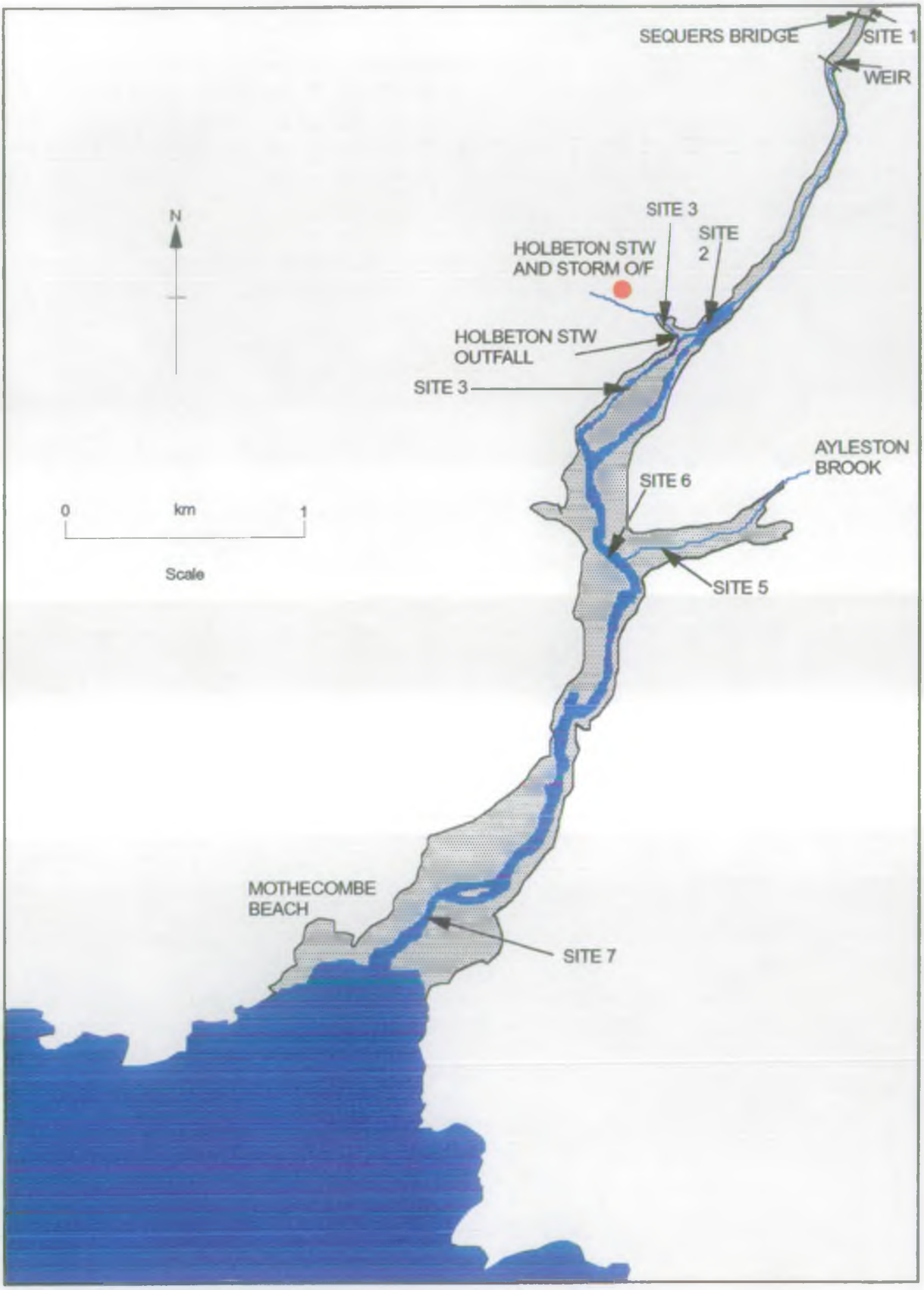
3. Bacterial levels at the mouth were generally lower than at Sequers bridge and any inputs into the estuary had little effect on overall bacterial levels at the mouth.

7. RECOMMENDATIONS

1. Identical survey carried out during the summer.

2. An intensive wet weather survey during an ebb tide at the same sites during the summer.

FIGURE 1 : INPUTS TO THE ERME ESTUARY



APPENDIX I

NATIONAL RIVERS AUTHORITY - SOUTH WESTERN REGION
BATHING WATER : MOTHECOMBE BEACH
NGR OF SAMPLING LOCATION : SX 6105 4734

Date Printed: 06/12/95

SAMPLE DATE DD/MM/YY	SAMPLE TIME HR:MM	TIME OF HIGH TIDE HR:MM	TOTAL COLIFORMS NO/100ml		FAECAL COLIFORMS NO/100ml		FAECAL STREPTOCOCCI NO/100ml	pH UNITS	ENTERO VIRUSES PFU/10 LITRES	TRANSPARENCY METRES	SALMONELLA CODE	COLOUR CODE	MINERAL OILS CODE	SURFACE-ACTIVE SUBSTANCES CODE	PHENOLS CODE
			PRESUMPTIVE MF	CONFIRMED MF	PRESUMPTIVE MF	CONFIRMED MF									
06/05/95	12:05	10.25	< 1	< 1	3	3	2			> 1		0	0	0	0
18/05/95	13:50	9.22	17	15	3	3	< 1			> 1		0	0	0	0
26/05/95	11:35	16.55	700	600	110	110	7	8.1		> 1	0	0	0	0	0
02/06/95	14:55	9.00	500	400	170	136	26			< 1		0	0	0	0
06/06/95	11:55	11.35	5	5	3	3	< 1			> 1		0	0	0	0
16/06/95	11:50	9.10	250	225	250	250	6	5.6		> 1	0	0	0	0	0
20/06/95	14:40	12.25	90	80	70	70	12			> 1		0	0	0	0
26/06/95	12:15	5.30	6	6	2	1	< 1		< 1	> 1		0	0	0	0
04/07/95	11:15	10.25	10	9	1	1	< 1			> 1		0	0	0	0
10/07/95	12:15	16.55	90	80	70	60	< 10			> 1		0	0	0	0
14/07/95	11:40	8.05	110	110	37	37	530			< 1		0	0	0	0
24/07/95	11:50	16.35	66	66	12	11	4		4	> 1		0	0	0	0
01/08/95	12:10	9.40	40	30	9	9	6			< 1		0	0	0	0
11/08/95	11:55	7.05	13	13	7	6	4			< 1		0	0	0	0
17/08/95	15:20	10.40	50	50	32	32	13			> 1		0	0	0	0
21/08/95	13:15	13.50													
31/08/95	10:35	9.44	130	104	20	10	10			< 1		0	0	0	0
10/09/95	12:10	6.35	220	198	110	33	49			0		0	0	0	0
12/09/95	12:05	8.30	300	300	69	55	19			> 1		0	0	0	0
20/09/95	12:20	15.20	20	20	9	8	1			> 1		0	0	0	0
28/09/95	11:20	9.00	40	20	22	22	10			> 1		0	0	0	0

MF = MEMBRANE FILTRATION

KEY : 0 - ABSENT 1 - PRESENT

NATIONAL RIVERS AUTHORITY - SOUTH WESTERN REGION
BATHING WATER : MOTHECOMBE BEACH
NGR OF SAMPLING LOCATION : SX 6105 4734

Date Printed: 01/03/96

SAMPLE DATE DD/MM/YY	SAMPLE TIME HR:MM	TIME OF HIGH TIDE HR:MM	TOTAL COLIFORMS NO/100ml		FAECAL COLIFORMS NO/100ml		FAECAL STREPTOCOCCI NO/100ml	pH UNITS	ENTERO VIRUSES PFU/10 LITRES	TRANSPARENCY METRES	SALMONELLA CODE	COLOUR CODE	MINERAL OILS CODE	SURFACE-ACTIVE SUBSTANCES CODE	PHENOLS CODE
			PRESUMPTIVE MF	CONFIRMED MF	PRESUMPTIVE MF	CONFIRMED MF									
06/05/94	12:00	16.05	180	126	35	32	1	8.1		> 1		0	0	0	0
15/05/94	13:15	9.30	1500	1350	1000	1000	62	8.1		< 1		0	0	0	0
24/05/94	11:40	5.45	210	84	50	30	30	8.1		< 1		0	0	0	0
06/06/94	11:35	16.55	1600	1440	330	297	10	8.1		< 1		0	0	0	0
10/06/94	12:00	7.12	< 10	< 10	< 10	< 10	< 10	8.1		< 1		0	0	0	0
19/06/94	12:55	14.15	20	20	< 10	< 10	< 10	8.1		> 1		0	0	0	0
28/06/94	11:20	10.20	< 10	< 10	< 10	< 10	< 10	8.1		> 1	0	0	0	0	0
05/07/94	11:35	16.15	40	40	< 10	< 10	< 10	8.2		> 1		0	0	0	0
14/07/94	11:55	10.23	200	200	70	50	< 10	8.1		> 1		0	0	0	0
21/07/94	11:45	17.45	570	513	100	100	10	8.2		> 1		0	0	0	0
27/07/94	11:50	9.40	310	248	100	50	< 10	8.0		> 1		0	0	0	0
30/07/94	11:50	11.10	120	120	50	50	10	8.1		> 1		0	0	0	0
08/08/94	12:15	7.30	100	80	20	10	< 10	8.2		> 1		0	0	0	0
15/08/94	12:05	12.30	10	10	20	20	< 10	8.1		> 1	0	0	0	0	0
24/08/94	12:05	8.35	< 10	< 10	< 10	< 10	< 10	8.1		< 1		0	0	0	0
03/09/94	12:00	17.10	11000	7700	2700	2700	590	8.1		< 1		0	0	0	0
12/09/94	12:10	11.18	30	20	30	20	10	8.1		< 1		0	0	0	0
19/09/94	11:40	6.25	8000	5000	4400	4400	1100	8.1		< 1		0	0	0	0
24/09/94	12:50	9.05	30	20	20	20	< 10	8.0		> 1		0	0	0	0
28/09/94	11:35	11.25	390	390	180	144	30	8.0		> 1		0	0	0	0

MF = MEMBRANE FILTRATION

KEY : 0 - ABSENT 1 - PRESENT

NATIONAL RIVERS AUTHORITY - SOUTH WESTERN REGION
BATHING WATER : MOTHECOMBE BEACH
NGR OF SAMPLING LOCATION : SX 6105 4734

Date Printed: 01/03/96

SAMPLE DATE DD/MM/YY	SAMPLE TIME HR:MM	TIME OF HIGH TIDE HR:MM	TOTAL COLIFORMS NO/100ml PRESUMPTIVE MF	TOTAL COLIFORMS NO/100ml CONFIRMED MF	FAECAL COLIFORMS NO/100ml PRESUMPTIVE MF	FAECAL COLIFORMS NO/100ml CONFIRMED MF	FAECAL STREPTOCOCCI NO/100ml	pH UNITS	ENTERO VIRUSES PFU/10 LITRES	TRANSPARENCY METRES	SALMONELLA CODE	COLOUR CODE	MINERAL OILS CODE	SURFACE-ACTIVE SUBSTANCES CODE	PHENOLS CODE
07/05/93	11:00	7.25	2	2	3	2	< 1	8.1		< 1		0	0	0	0
16/05/93	12:20	15.05	1600	320	180	126	5	8.2		0		0	0	1	0
25/05/93	11:10	9.10	50	50	51	41	31	8.3		> 1		0	0	0	0
01/06/93	13:05	16.05	360	360	210	42	2	8.2		< 1		0	0	0	0
04/06/93	10:25	6.15	650	455	160	96	9	8.1		> 1		0	0	0	0
11/06/93	10:55	10.55	260	< 10		< 10	2	8.1		< 1		0	0	0	0
20/06/93	12:20	7.00	400	320	190	114	8	8.2		> 1		0	0	0	0
29/06/93	11:00	14.25	113	113	114	114	1	8.3		> 1	0	0	0	0	0
06/07/93	12:25	8.15	< 1	< 1	< 1	< 1	< 1	8.1		> 1		0	0	0	0
15/07/93	11:20	15.10	1700	1020	1200	840	80	8.1		< 1		0	0	0	0
22/07/93	11:20	8.45	40	40	50	20	< 10	8.1		> 1		0	0	0	0
28/07/93	11:35	13.55	1200	960	380	190	50	8.1		< 1		0	0	1	0
31/07/93	12:50	17.10	1200	960	750	750	30	8.1		< 1		0	0	0	0
09/08/93	13:00	10.28	40	10	< 10	< 10	< 10	8.2		> 1		0	0	0	0
16/08/93	12:20	5.25	10	< 10	< 10	< 10	< 10	8.2		< 1		0	0	0	0
25/08/93	11:15	12.30	50	40	10	< 10	< 10	8.1		> 1	0	0	0	0	0
04/09/93	11:15	8.25	60	60	40	30	20	8.2		> 1		0	0	0	0
13/09/93	11:12	16.25	3400	3400	2100	1890	140	8.0		0		1	0	0	0
20/09/93	11:05	9.20	300	300	300	180	20	8.0		0		0	0	0	0
29/09/93	12:30	5.50	5200	5200	2300	1380	360	8.0		< 1		0	0	0	0

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SAMPLE DATE DD/MM/YY	SAMPLE TIME HR:MM	TIME OF HIGH TIDE HR:MM	TOTAL COLIFORMS NO/100ml		FAECAL COLIFORMS NO/100ml		FAECAL STREPTOCOCCI NO/100ml	pH UNITS	ENTERO VIRUSES PFU/10 LITRES	TRANSPARENCY METRES	SALMONELLA CODE	COLOUR CODE	MINERAL OILS CODE	SURFACE-ACTIVE SUBSTANCES CODE	PHENOLS CODE
			PRESUMPTIVE MF	CONFIRMED MF	PRESUMPTIVE MF	CONFIRMED MF									
08/05/92	11:45	10.45	0	0	0	0	0	8.3		0		0	0	0	0
15/05/92	11:55	18.00	17	17	10	8	0	8.3		0		0	0	0	0
28/05/92	12:00	15.30	1100	660	450	360	15	8.1		0		0	0	0	0
03/06/92	12:35	8.25	60	60	55	55	22	8.2	< 1	0		0	0	0	0
12/06/92	11:45	16.40	0	0	0	0	0	8.0		0		0	0	0	0
19/06/92	11:35	8.55	3	3	8	2	1	8.1		0		0	0	0	0
07/07/92	11:35	11.55	5	5	3	3	3	8.1		0	0	0	0	0	0
10/07/92	12:50	14.55	17	15	8	7	1	8.0		0		0	0	0	0
14/07/92	11:55	6.30	290	261	46	28	14	7.5		0		0	0	0	0
20/07/92	11:20	9.55	23	23	5	5	11	7.9		0		0	0	0	0
23/07/92	12:00	11.35	57	57	36	29	6	7.8		0		0	0	0	0
30/07/92	12:05	7.27	156	156	87	87	71	7.8		0		0	0	0	0
08/08/92	12:00	14.10	12	12	6	4	2	7.9		0		0	0	0	0
17/08/92	12:55	8.45	600		570		10	8.3	1	0		0	0	0	0
24/08/92	13:05	14.50	1170	1170	930	930	77	7.9		0	1	0	0	1	0
28/08/92	11:35	7.02	4300	4300	1150	1150	92	7.6		0		0	0	1	0
03/09/92	11:40	10.42	280	280	109	109	14	7.8		0	0	0	0	0	0
10/09/92	11:40	5.36	3300	2640	770	539	85	7.8		0		0	0	0	0
19/09/92	12:20	10.20	7	7	9	4	2	8.1		0		0	0	0	0
23/09/92	11:05	16.05	1000	1000	560	560	60	7.7		0		0	0	0	0
28/09/92	11:25	8.10	8	8	0	0	1	8.0	< 1	0		0	0	0	0

MF = MEMBRANE FILTRATION

KEY : 0 - ABSENT 1 - PRESENT

NAME OF BATHING BEACH
MOTHECOMBE BEACH

NGR OF SAMPLING LOCATION SX 6105 4734

DATE OF SAMPLE	TIME OF SAMPLE	TIME OF HIGH TIDE	TOTAL COLIFORMS	FAECAL COLIFORMS	ENTERO VIRUSES	PH	TRANS-PARENCY	SALMONELLA	COLOUR	MINERAL OILS	SURFACE-ACTIVE SUBSTANCES	PHENOLS
DD/MM/YY	HRMM	HRMM	NO/100ML	NO/100ML	PFU/10 LITRES	PH UNITS	METRES	CODE	CODE	CODE	CODE	CODE
08/05/91	1150	1304	< 10	< 10		8.00			1	0	0	0
15/05/91	1220	0730	< 10	< 10		8.10			1	0	0	0
24/05/91	1205	1545	10	10		8.00			0	0	0	0
31/05/91	1235	0800	20	10		7.90			0	0	0	0
03/06/91	1220	0945	< 10	< 10		7.90			0	0	0	0
12/06/91	1220	0606	10000	5400		7.80			1	0	1	0
19/06/91	1130	1146	1100	560		7.90		0	0	0	0	0
28/06/91	1115	0720	1100	240		8.00			0	0	0	0
05/07/91	1120	1130	10	< 10		8.00			0	0	0	0
14/07/91	1055	0825	380	80		8.00			0	0	0	0
23/07/91	1200		6900	490		8.10			0	0	0	0
30/07/91	1200	0845	170	60	0	8.00			0	0	0	0
08/08/91	1125	0448	10	< 10		8.02			0	0	0	0
15/08/91	1135	1000	30	10		7.99			0	0	0	0
22/08/91	1245	1637	1000	770		8.02			1	0	0	0
27/08/91	1225	0755	170	80	0	8.13			0	0	0	0
03/09/91	1245	1147	10	< 10		8.09		0	0	0	0	0
12/09/91	1100		110	20		8.14						
19/09/91	1135	1455	70	10		8.10			0	0	0	0
28/09/91	1125	1000	90	90		8.06			1	0	0	0

KEY : 0 - ABSENT 1 - PRESENT

NAME OF BATHING BEACH
MOTHECOMBE BEACH

NGR OF SAMPLE LOCATION SX 6105 4734

DATE OF SAMPLE	TIME OF SAMPLE	TIME OF HIGH TIDE	TOTAL COLIFORMS	FAECAL COLIFORMS	ENTERO VIRUSES	PH	TRANS-PARENCY	SALMONELLA	COLOUR	MINERAL OILS	SURFACE-ACTIVE SUBSTANCES	PHENOLS
DD/MM/YY	HRMM	HRMM	NO/100ML	NO/100ML	PFU/10 LITRES	PH UNITS	METRES	CODE	CODE	CODE	CODE	CODE
08/05/90	1225		430	140			< 1.0		0	0	0	0
15/05/90	1230		128	85			< 1.0		1	0	1	0
15/05/90	1231				0							
21/05/90	1215		0	1			< 1.0		1	1	0	0
24/05/90	1140	0610	15	18			1.3		1	1	0	0
03/06/90	1210	1437	14	7			1.3		0	0	0	0
12/06/90	1200	0857	2	2			3.1		0	1	0	0
21/06/90	1215	1719	1020	450		8.10	< 1.0		1	0	0	0
27/06/90	1205	0947	136	102			< 1.0		1	0	0	0
02/07/90	1245	1325	15	11			< 1.0	0	0	0	0	0
09/07/90	1220	0736	390	65			< 1.0		1	0	0	0
09/07/90	1221				1							
18/07/90	1130	1428	52	23			1.3		0	0	0	0
27/07/90	1240	0948	54	66			< 1.0		1	0	0	0
05/08/90	1220	1812	4	16			1.1		0	0	0	0
09/08/90	1210	0835	2	5			> 3.9		0	0	0	0
14/08/90	1145	1133	63	42			< 1.0	0	1	0	0	0
23/08/90	1155	0822	23	19			< 1.0		0	0	0	0
04/09/90	1210	0619	82	48			< 1.0		0	0	0	0
11/09/90	1210	1021	0	3			1.5		0	0	0	0
17/09/90	1235	1742	67	60			1.2		0	0	0	0
20/09/90	1225	0723	41	39			< 1.0		0	0	0	0

KEY : 0 - ABSENT 1 - PRESENT

NAME OF BATHING BEACH
MOTHECOMBE BEACH

NGR OF SAMPLING LOCATION SX 6105 4734

DATE OF SAMPLE	TIME OF SAMPLE	TIME OF HIGH TIDE	TOTAL COLIFORMS	FAECAL COLIFORMS	ENTERO VIRUSES	PH	TRANS-PARENCY	SALMONELLA	COLOUR	MINERAL OILS	SURFACE-ACTIVE SUBSTANCES	PHENOLS
DD/MM/YY	HRMM	HRMM	NO/100ML	NO/100ML	PFU/10 LITRES	PH UNITS	METRES	CODE	CODE	CODE	CODE	CODE
06/05/89	1205	0722	79	22			1.6		0	0	0	0
12/05/89	1255	1131	8	6			< 1.0		0	0	0	0
22/05/89	1150		33	9			3.0	0	0	0	0	0
31/05/89	1055	0404	110	68			2.7		0	0	0	0
06/06/89	1325		0	0			< 1.0	0	0	0	0	0
23/06/89	1105	0933	76	70			3.8		0	0	0	0
03/07/89	1000	0653	47	37			< 1.0		0	0	0	0
11/07/89	1245	1152	0	8	0		> 3.9		0	0	0	0
17/07/89	1045	0625	142	51			3.8	0	0	0	0	0
25/07/89	1145	1115	40	35			2.0		0	0	1	0
02/08/89	1020	0729	9	12	0		2.3		1	0	1	0
10/08/89	1205		340	102			< 1.0		0	0	0	0
17/08/89	1015		35	28			< 1.0		0	0	1	0
25/08/89	1020		15	7			2.0		0	0	0	0
02/09/89	1340		55	20			1.6		0	0	0	0
08/09/89	1120		7	1.1			> 3.9		0	0	0	0
13/09/89	1245		2000	850			1.6		0	0	0	0
18/09/89	1215		1900	310			< 1.0		0	0	1	0
26/09/89	1135		51	17			< 1.0		0	0	0	0
13/10/89	1130		3300	1270			1.5		0	0	0	0

KEY : 0 - ABSENT 1 - PRESENT

NAME OF BATHING BEACH
MOTHECOMBE BEACH

NGR OF SAMPLING LOCATION SX 6105 4734

DATE OF SAMPLE	TIME OF SAMPLE	TIME OF HIGH TIDE	TOTAL COLIFORMS	FAECAL COLIFORMS	ENTERO VIRUSES	PH	TRANS-PARENCY	SALMONELLA	COLOUR	MINERAL OILS	SURFACE-ACTIVE SUBSTANCES	PHENOLS
DD/MM/YY	HRMM	HRMM	NO/100ML	NO/100ML	PFU/10 LITRES	PH UNITS	METRES	CODE	CODE	CODE	CODE	CODE
14/05/88	1550	1751	176	169		8.09	3.1		0	0	0	0
27/05/88	1315	1547	180	177			2.5		0	0	1	0
09/06/88	1435	1417	13	23			> 3.9		0	0	0	0
12/06/88	1110	0456	15	8			> 3.9		0	0	0	0
22/06/88	1200	1138	0	4			> 3.9		0	0	0	0
05/07/88	1350	1100	5	3			3.2		0	0	0	0
10/07/88	1125	1558	> 30000	2700			3.7		0	0	0	0
18/07/88	1150	0920	14	2			1.6		0	0	0	0
04/08/88	1220	1114	37	5			> 3.9		0	0	0	0
07/08/88	1115	1411	460	65			> 3.9		0	0	0	0
08/08/88	1445	1535	480	320			1.1		0	0	1	0
23/08/88	1215	1420	730	136			> 3.9		0	0	0	0
31/08/88	1135	0935	24	25			2.5		0	0	0	0
02/09/88	1340	1038	2800	890			< 1.0		0	0	1	0
04/09/88	0950	1208	7100	1500			< 1.0		0	0	0	0
13/09/88	1138	0759	9	2			< 1.0		0	0	0	0
15/09/88	1205	0844	11	1			> 3.9		0	0	0	0
22/09/88	1155	1534	920	460			< 1.0		0	0	1	0
02/10/88	1315	1040	23	5			2.0		0	0	0	0
11/10/88	1230	0656	7800	1630			< 1.0		0	0	0	0

KEY : 0 - ABSENT 1 - PRESENT

NAME OF BATHING BEACH
MOTHECOMBE BEACH

NGR OF SAMPLING LOCATION SX 6105 4734

DATE OF SAMPLE	TIME OF SAMPLE	TIME OF HIGH TIDE	TOTAL COLIFORMS	FAECAL COLIFORMS	ENTERO VIRUSES	PH	TRANS-PARENCY	SALMONELLA	COLOUR	MINERAL OILS	SURFACE-ACTIVE SUBSTANCES	PHENOLS
DD/MM/YY	HRMM	HRMM	NO/100ML	NO/100ML	PFU/10 LITRES	PH UNITS	METRES	CODE	CODE	CODE	CODE	CODE
19/05/87	1050		1	1		8.25	> 3.9		0	0	0	0
02/06/87	0935		420	109			3.5		0	0	0	0
16/06/87	0935		59	13			3.0		0	0	0	0
30/06/87	0935		4	3			1.4		0	0	0	0
15/07/87	1445		6800	1280			3.2		0	0	0	0
21/07/87	0920		4	0			1.8		0	0	0	0
04/08/87	0935		21	8			< 1.0		0	0	0	0
18/08/87	1045		110	56			2.7		0	0	0	0
01/09/87	0001		79	41			2.5		0	0	0	0
15/09/87	0930		95	16			< 1.0		0	0	0	0
29/09/87	0930		121	117			3.1		0	0	0	0
13/10/87	0930		330	70			1.2		0	0	1	0

KEY : 0 - ABSENT 1 - PRESENT

NAME OF BATHING BEACH
MOTHECOMBE BEACH

NGR OF SAMPLING LOCATION SX 6105 4734

DATE OF SAMPLE	TIME OF SAMPLE	TIME OF HIGH TIDE	TOTAL COLIFORMS	FAECAL COLIFORMS	ENTERO VIRUSES	PH	TRANS-PARENCY	SALMONELLA	COLOUR	MINERAL OILS	SURFACE-ACTIVE SUBSTANCES	PHENOLS
DD/MM/YY	HRMM	HRMM	NO/100ML	NO/100ML	PFU/10 LITRES	PH UNITS	METRES	CODE	CODE	CODE	CODE	CODE
13/05/86	1015	0853	51	14			< 1.0		0	0	0	0
03/06/86	1000	0356	2100	990			2.5		0	0	0	0
10/06/86	0940	0847	3000	1860			< 1.0			0	1	0
24/06/86	0955	0902	6100	2100			2.5		0	0	1	0
08/07/86	0945	0758	13	8			2.2		0	0	1	0
22/07/86	0950	0802	290	260			1.5		0	0	0	0
05/08/86	0920	0659	59	38			< 1.0		0	0	0	0
19/08/86	1000	0659	28	31			1.9		0	0	0	0
02/09/86	0945	0551	3800	1400			2.4		0	0	0	0
16/09/86	0940	0555	250	85			< 1.0		0	0	0	0
30/09/86	0945	0426	1170	360			< 1.0		0	0	1	0
14/10/86	0950	0441	1550	330			1.2		0	0	1	0

KEY : 0 - ABSENT 1 - PRESENT

NATIONAL RIVERS AUTHORITY - SOUTH WESTERN REGION
BATHING WATER : MOTHECOMBE BEACH - STREAM A
NGR OF SAMPLING LOCATION : SX 6105 4737

Date Printed: 06/12/95

SAMPLE DATE DD/MM/YY	SAMPLE TIME HR:MM	TIME OF HIGH TIDE HR:MM	TOTAL COLIFORMS NO/100ml		FAECAL COLIFORMS NO/100ml		FAECAL STREPTOCOCCI NO/100ml	pH UNITS	ENTERO VIRUSES PFU/10 LITRES	TRANSPARENCY METRES	SALMONELLA CODE	COLOUR CODE	MINERAL OILS CODE	SURFACE-ACTIVE SUBSTANCES CODE	PHENOLS CODE
			PRESUMPTIVE MF	CONFIRMED MF	PRESUMPTIVE MF	CONFIRMED MF									
06/05/95	12:00		1100		670		70								
18/05/95	13:55		19000		11000		290								
26/05/95	11:30		600		470		20								
02/06/95	15:00		1000		340		30								
06/06/95	11:50		600		440		< 10								
16/06/95	11:45		71000		61000		5200								
20/06/95	14:35		79000		66000		2500								
26/06/95	12:20		108000		106000		1600								
04/07/95	11:20		9000		3800		70								
10/07/95	12:10		17000		4700		6400								
14/07/95	11:35		4000		1500		680								
24/07/95	11:45		4500		1300		250								
01/08/95	12:15		2500		700		430								
11/08/95	12:00		1200		550		250								
17/08/95	15:25		1700		390		220								
31/08/95	10:37		1800		1200		100								
10/09/95	12:15		11000		2700		5400								
12/09/95	12:10		1700		580		380								
20/09/95	12:25		800		480		160								
28/09/95	11:15		1300		390		110								

MF = MEMBRANE FILTRATION

KEY : 0 - ABSENT 1 - PRESENT

NATIONAL RIVERS AUTHORITY - SOUTH WESTERN REGION
BATHING WATER : MOTHECOMBE BEACH - STREAM A
NGR OF SAMPLING LOCATION : SX 6105 4737

Date Printed: 01/03/96

SAMPLE DATE DD/MM/YY	SAMPLE TIME HR:MM	TIME OF HIGH TIDE HR:MM	TOTAL COLIFORMS NO/100ml		FAECAL COLIFORMS NO/100ml		FAECAL STREPTOCOCCI NO/100ml	pH UNITS	ENTERO VIRUSES PFU/10 LITRES	TRANSPARENCY METRES	SALMONELLA CODE	COLOUR CODE	MINERAL OILS CODE	SURFACE-ACTIVE SUBSTANCES CODE	PHENOLS CODE
			PRESUMPTIVE MF	CONFIRMED MF	PRESUMPTIVE MF	CONFIRMED MF									
06/05/94	11:55		180		90		< 10	8.0							
15/05/94	13:10		560		420		220	8.1							
24/05/94	11:45		29000		20000		1000	7.9							
06/06/94	11:40		1800		2100		20	8.0							
10/06/94	12:05		370		250		20	8.0							
19/06/94	12:50		310		210		< 10	7.9							
28/06/94	11:15		1600		250		30	7.9							
05/07/94	11:30		1000		210		50	8.0							
14/07/94	11:50		29000		23000		1000	7.9							
21/07/94	11:50		4800		3300		120	8.0							
27/07/94	11:45		4000		5500		160	7.9							
30/07/94	11:45		16000		7000		150	8.0							
08/08/94	12:20		1500		700		40	8.1							
15/08/94	12:00		1100		540		10	8.1							
24/08/94	12:10		450		330		30	8.0							
03/09/94	12:05		600		190		240	7.9							
12/09/94	12:05		130		80		140	7.9							
19/09/94	11:35		200		90		340	7.9							
24/09/94	12:40		3300		3600		100	7.9							
28/09/94	11:30		3900		4100		200	8.0							

MF = MEMBRANE FILTRATION

KEY : 0 - ABSENT 1 - PRESENT

NATIONAL RIVERS AUTHORITY - SOUTH WESTERN REGION
BATHING WATER : MOTHECOMBE BEACH - STREAM A
NGR OF SAMPLING LOCATION : SX 6105 4737

Date Printed: 01/03/96

SAMPLE DATE DD/MM/YY	SAMPLE TIME HR:MM	TIME OF HIGH TIDE HR:MM	TOTAL COLIFORMS NO/100ml		FAECAL COLIFORMS NO/100ml		FAECAL STREPTOCOCCI NO/100ml	pH UNITS	ENTERO VIRUSES PFU/10 LITRES	TRANSPARENCY METRES	SALMONELLA CODE	COLOUR CODE	MINERAL OILS CODE	SURFACE-ACTIVE SUBSTANCES CODE	PHENOLS CODE
			PRESUMPTIVE MF	CONFIRMED MF	PRESUMPTIVE MF	CONFIRMED MF									
07/05/93	10:55		1800		1200		230	7.8							
16/05/93	12:15		2000		1600		20	7.9							
25/05/93	11:05		169000		131000		19000	7.4							
01/06/93	12:55		240		240		1900	8.3							
04/06/93	10:20		130		180		10	8.2							
11/06/93	10:50		9000			1000	80	8.0							
20/06/93	12:15		510		140		50	7.9							
29/06/93	10:55		9000		7000		60	7.8							
06/07/93	12:20		3900		3500		40	7.9							
15/07/93	11:15		12000		3400		5200	7.9							
22/07/93	11:15		1700		900		20	8.0							
28/07/93	11:40		6000		440		20	7.9							
31/07/93	12:45		1100		670		60	7.9							
09/08/93	13:05		2500		410		< 10	8.0							
16/08/93	12:15		1600		350		30	8.0							
25/08/93	11:25		600		180		30	7.9							
04/09/93	11:20		1800		140		20	7.8							
13/09/93	11:10		52000		58000		1800	7.8							
20/09/93	11:00		3300		3100		10	7.8							
29/09/93	12:25		2800		1600		130	7.9							

MF = MEMBRANE FILTRATION

KEY : 0 - ABSENT 1 - PRESENT

NATIONAL RIVERS AUTHORITY - SOUTH WESTERN REGION
BATHING WATER : MOTHECOMBE BEACH - STREAM A
NGR OF SAMPLING LOCATION : SX 6105 4737

Date Printed: 01/03/96

SAMPLE DATE	SAMPLE TIME	TIME OF HIGH TIDE	TOTAL COLIFORMS NO/100ml		FAECAL COLIFORMS NO/100ml		FAECAL STREPTOCOCCI	pH	ENTERO VIRUSES	TRANSPARENCY	SALMONELLA	COLOUR	MINERAL OILS	SURFACE-ACTIVE SUBSTANCES	PHENOLS
DD/MM/YY	HR:MM	HR:MM	PRESUMPTIVE MF	CONFIRMED MF	PRESUMPTIVE MF	CONFIRMED MF	NO/100ml	UNITS	PFU/10 LITRES	METRES	CODE	CODE	CODE	CODE	CODE
08/05/92	11:40		50		< 10		30	7.9		0					
15/05/92	11:45		70		40		10	7.8		0					
28/05/92	12:05		26000		8300		180	7.8		0					
03/06/92	12:40		32000		16000		380	7.8		0					
12/06/92	11:40		5000		900		30	7.9		0					
19/06/92	11:30		1600		630		30	7.9		0					
07/07/92	11:30		48000		24000		1400	7.6		0					
10/07/92	12:45		7000		1300		60	7.8		0					
14/07/92	12:00		1500		1300		50	7.9		0					
20/07/92	11:25		610		370		290	7.8		0					
23/07/92	12:05		800		260		60	8.0		0					
30/07/92	12:10		29000		24000		1800	8.0		0					
08/08/92	12:05		1000		320		190	7.9		0					
17/08/92	13:00		3600		3600		34	8.0		0					
24/08/92	13:05		1500		1000		50	7.9		0					
28/08/92	11:30		17000		1000		330	7.8		0					
03/09/92	11:35		16000		4400		30	7.8		0					
10/09/92	11:35		3300		200		50	7.8		0					
19/09/92	12:25		11000		950		20	8.1		0					
23/09/92	11:00		2000		900		260	7.7		0					
28/09/92	11:20		2500		530			7.7		0					

MF = MEMBRANE FILTRATION

KEY : 0 - ABSENT 1 - PRESENT

ANALYTICAL SUMMARY OF:-

MOTHECOMBE BEACH - STREAM A (BEACH SURVEY)

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
080591	1145	SQSB	2F	590	590	10<
150591	1215	SQSB	2F	320	160	20
240591	1200	SQSB	2F	190	150	10
310591	1230	SQSB	2F	2300	130	30
080691	1210	SQSB	2F	400	200	10<
120691	1215	SQSB	2F	6300	6300	2800
190691	1120	SQSB	2F	33000	32000	30
280691	1110	SQSB	2F	21000	19000	20
050791	1115	SQSB	2F	4000	1400	10
140791	1050	SQSB	2F	910	910	30
230791	1150	SQMB	2F	820	530	40

Type "C" to Continue, "P" for previous screen, "Q" to Quit ( )

TYPE ONLINE READY

ANALYTICAL SUMMARY OF:-

MOTHECOMBE BEACH - STREAM A (BEACH SURVEY)

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
300791	1155	SQMB	2F	1900	610	470
080891	1120	SQMB	2F	6000	4700	160
150891	1130	SQMB	2F	20000	9000	330
220891	1240	SQMB	2F	140000	140000	600
270891	1230	SQMB	2F	600	570	50
030991	1255	SQMB	2F	10000	6200	2800
120991	1055	SQMB	2F	1800	620	50
190991	1130	SQMB	2F	1900	1500	220
280991	1130	SQMB	2F	31000	29000	27000

Type "C" to Continue, "P" for previous screen, "Q" to Quit ( )

TYPE ONLINE READY

ANALYTICAL SUMMARY OF:-

MOTHECOMBE BEACH - STREAM A (BEACH SURVEY)

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
080590	1215	SQSB	2F	2300	2100	114
150590	1240	SQSB	2F	900	700	108
210590	1205	SQSB	2F	4200	410	40
240590	1130	SQSB	2F	320	290	40
030690	1220	SQSB	2F	660	620	180
120690	1155	SQSB	2F	16800	8800	36
210690	1205	SQSB	2F	67000	72000	790
270690	1155	SQSB	2F	7600	7100	26
020790	1240	SQSB	2F	5000	6600	60
090790	1215	SQSB	2F	5400	4600	16
180790	1120	SQSB	2F	7000	5800	240

Type "C" to Continue, "P" for previous screen, "Q" to Quit ( )
TYPE ONLINE READY

ANALYTICAL SUMMARY OF:-

MOTHECOMBE BEACH - STREAM A (BEACH SURVEY)

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
270790	1230	SQSB	2F	34000	24000	3250
050890	1210	SQSB	2F	4200	1900	416
090890	1200	SQSB	2F	3300	2740	40
140890	1135	SQSB	2F	2300	1900	60
230890	1150	SQSB	2F	5300	5500	360
040990	1205	SQSB	2F	450	380	42
110990	1200	SQSB	2F	230	250	36
170990	1240	SQSB	2F	240	250	56
200990	1220	SQSB	2F	270	280	50

Type "C" to Continue, "P" for previous screen, "Q" to Quit ( )
TYPE ONLINE READY

ANALYTICAL SUMMARY OF:-

MOTHECOMBE BEACH - STREAM A (BEACH SURVEY)

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
120589	1300	SQSB	2F	620	500	36
220589	1155	SQSB	2F	150	70	12
310589	1105	SQSB	2F	18000	16000	1700
060689	1330	SQSB	2F	2600	1390	26
230689	1055	SQSB	2F	61000	64000	400
030789	1005	SQSB	2F	8100	6700	46
110789	1240	SQSB	2F	2800	2300	78
170789	1050	SQSB	2F	3300	2300	164
250789	1150	SQSB	2F	32000	29000	370
020889	1015	SQSB	2F	7100	3900	168
100889	1210	SQSB	2F	9300	6900	3000

Type "C" to Continue, "P" for previous screen, "Q" to Quit ( )

TYPE ONLINE READY

ANALYTICAL SUMMARY OF:-

MOTHECOMBE BEACH - STREAM A (BEACH SURVEY)

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
170889	1005	SQSB	2F	1300	720	96
250889	1025	SQSB	2F	4300	770	372
020989	1345	SQSB	2F	8700	6300	320
080989	1115	SQSB	2F	11000	7600	420
130989	1250	SQSB	2F	1500	1020	166
180989	1205	SQSB	2F	1100	1050	76
250989	1130	SQSB	2F	810	690	240

Type "C" to Continue, "P" for previous screen, "Q" to Quit ( )

TYPE ONLINE READY

ANALYTICAL SUMMARY OF:-

MOTHECOMBE BEACH - STREAM A (BEACH SURVEY)

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
190587	1045	SQSB	2F	79	47	
020687	0935	SQSB	2F	117	106	
160687	0935	SQSB	2F	170	117	
300687	0935	SQSB	2F	1900	950	
150787	1450	SQSB	2F	4600	2700	
210787	0915	SQSB	2F	540	440	
040887	0930	SQSB	2F	930	740	
010987	0935	SQSB	2F	680	52	
150987	0930	SQSB	2F	200	32	
290987	0930	SQSB	2F	170	39	

Type "C" to Continue, "P" for previous screen, "Q" to Quit ( )
TYPE ONLINE READY

ANALYTICAL SUMMARY OF:-

MOTHECOMBE BEACH - STREAM A (BEACH SURVEY)

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
140588	1600	SQSB	2F	2000	1290	30
270588	1320	SQSB	2F	27000	32000	90
090688	1430	SQSB	2F	6000	5800	13
120688	1045	SQSB	2F	3200	500	80
220688	1155	SQSB	2F	700	620	72
050788	1345	SQSB	2F	1700	1310	44
100788	1100	SQSB	2F	32000	3300	184
180788	1155	SQSB	2F	1400	1130	68
040888	1217	SQSB	2F	1800	1430	42
070888	1050	SQSB	2F	10100	1090	58
080888	1440	SQSB	2F	1800	1320	62

Type "C" to Continue, "P" for previous screen, "Q" to Quit ( )
TYPE ONLINE READY

ANALYTICAL SUMMARY OF:-

MOTHECOMBE BEACH - STREAM A (BEACH SURVEY)

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
230888	1210	SQSB	2F	4200	2900	1630
310888	1132	SQSB	2F	780	670	100
020988	1345	SQSB	2F	610	520	236
040988	1015	SQSB	2F	17000	1300	102
130988	1135	SQSB	2F	900	450	8
150988	1210	SQSB	2F	190	90	18
220988	1152	SQSB	2F	410	290	68

NATIONAL RIVERS AUTHORITY - SOUTH WESTERN REGION
BATHING WATER : R.ERME AT SEQUERS BRIDGE
NGR OF SAMPLING LOCATION : SX 632 519

Date Printed: 06/12/95

SAMPLE DATE DD/MM/YY	SAMPLE TIME HR:MM	TIME OF HIGH TIDE HR:MM	TOTAL COLIFORMS NO/100ml		FAECAL COLIFORMS NO/100ml		FAECAL STREPTOCOCCI NO/100ml	pH UNITS	ENTERO VIRUSES PFU/10 LITRES	TRANSPARENCY METRES	SALMONELLA CODE	COLOUR CODE	MINERAL OILS CODE	SURFACE-ACTIVE SUBSTANCES CODE	PHENOLS CODE
			PRESUMPTIVE MF	CONFIRMED MF	PRESUMPTIVE MF	CONFIRMED MF									
06/05/95	12:30		1600		750		40								
18/05/95	11:00		15000		4300		1200								
26/05/95	11:10		5000		1900		480								
02/06/95	11:27		8000		2700		140								
06/06/95	11:25		2000		820		120								
16/06/95	11:25		7000		2600		180								
20/06/95	14:10		26000		4700		190								
26/06/95	12:55		28000		4600		170								
04/07/95	11:00		26000		1800		140								
10/07/95	11:40		>300000		>300000		20000								
14/07/95	11:10		19000		4200		1900								
24/07/95	11:20		4600		1200		210								
01/08/95	12:35		5500		1100		130								
11/08/95	11:25		3200		600		230								
17/08/95	12:00		5200		1430		290								
21/08/95	12:55		3300		1600		190								
31/08/95	11:17		1500		280		140								
10/09/95	11:35		4200		2200		790								
20/09/95	11:58		4000		1700		280								
28/09/95	11:00		2400		1000		370								

MF = MEMBRANE FILTRATION

KEY : 0 - ABSENT 1 - PRESENT

NATIONAL RIVERS AUTHORITY - SOUTH WESTERN REGION
BATHING WATER : R.ERME AT SEQUERS BRIDGE
NGR OF SAMPLING LOCATION : SX 632 519

Date Printed: 01/03/96

SAMPLE DATE	SAMPLE TIME	TIME OF HIGH TIDE	TOTAL COLIFORMS NO/100ml		FAECAL COLIFORMS NO/100ml		FAECAL STREPTOCOCCI	pH	ENTERO VIRUSES	TRANSPARENCY	SALMONELLA	COLOUR	MINERAL OILS	SURFACE-ACTIVE SUBSTANCES	PHENOLS
DD/MM/YY	HR:MM	HR:MM	PRESUMPTIVE MF	CONFIRMED MF	PRESUMPTIVE MF	CONFIRMED MF	NO/100ml	UNITS	PFU/10 LITRES	METRES	CODE	CODE	CODE	CODE	CODE
06/05/94	12:25		4700		1600		130	8.1							
15/05/94	11:05		14000		4900		400	7.7							
24/05/94	11:10		48000		29000		2200	7.7							
06/06/94	11:05		3300		1000		240	7.8							
10/06/94	12:30		4900		1700		140	7.8							
19/06/94	13:30		18000		14000		270	7.8							
28/06/94	10:55		15000		2300		410	7.9							
05/07/94	11:15		4700		1800		160	8.0							
14/07/94	12:15		34000		12000		520	8.0							
21/07/94	11:15		8000		3800		300	8.1							
27/07/94	11:15		45000		16000		2700	7.3							
30/07/94	12:20		13000		3500		610	7.7							
08/08/94	12:40		45000		10000		2800	7.8							
15/08/94	11:40		19000		3000		470	7.7							
24/08/94	11:25		13000		4500		900	7.8							
03/09/94	13:15		16000		3400		520	7.7							
12/09/94	11:45		4400		2400		410	7.4							
19/09/94	11:10		20000		14000		4700	7.4							
24/09/94	13:15		1900		900		210	7.7							
28/09/94	11:10		2500		900		260	7.6							

MF = MEMBRANE FILTRATION

KEY : 0 - ABSENT 1 - PRESENT

NATIONAL RIVERS AUTHORITY - SOUTH WESTERN REGION
BATHING WATER : R.ERME AT SEQUERS BRIDGE
NGR OF SAMPLING LOCATION : SX 632 519
Date Printed: 01/03/96

SAMPLE DATE DD/MM/YY	SAMPLE TIME HR:MM	TIME OF HIGH TIDE HR:MM	TOTAL COLIFORMS NO/100ml		FAECAL COLIFORMS NO/100ml		FAECAL STREPTOCOCCI NO/100ml	pH UNITS	ENTERO VIRUSES PFU/10 LITRES	TRANSPARENCY METRES	SALMONELLA CODE	COLOUR CODE	MINERAL OILS CODE	SURFACE-ACTIVE SUBSTANCES CODE	PHENOLS CODE
			PRESUMPTIVE MF	CONFIRMED MF	PRESUMPTIVE MF	CONFIRMED MF									
07/05/93	10:40		2500		1600		30	7.8							
16/05/93	12:45		9000		8000		610	7.6							
25/05/93	10:40		25000		10000		2600	7.6							
01/06/93	13:25		25000		7200		580	7.8							
04/06/93	11:00		6500		2700		190	7.6							
11/06/93	10:35		13000			1300	240	7.8							
20/06/93	12:55		19000		5500		250	7.6							
29/06/93	10:45		8000		2400		220	7.6							
06/07/93	12:45		10000		3400		160	7.9							
15/07/93	10:50		53000		26000		7400	7.6							
22/07/93	10:50		3000		2100		540	7.8							
28/07/93	11:15		24000		8000		710	7.7							
31/07/93	13:55		5600		3400		370	7.9							
09/08/93	14:35		14000		7400		900	7.8							
16/08/93	13:05		5000		4600		200	7.8							
25/08/93	10:45		7000		2200		210	7.8							
04/09/93	10:55		12000		5700		370	7.8							
13/09/93	10:42		103000		70000		14000	7.5							
20/09/93	10:40		65000		30000		560	7.6							
29/09/93	13:05		6300		4600		900	7.8							

MF = MEMBRANE FILTRATION

KEY : 0 - ABSENT 1 - PRESENT

NATIONAL RIVERS AUTHORITY - SOUTH WESTERN REGION
BATHING WATER : R.ERME AT SEQUERS BRIDGE
NGR OF SAMPLING LOCATION : SX 632 519

Date Printed: 01/03/96

SAMPLE DATE DD/MM/YY	SAMPLE TIME HR:MM	TIME OF HIGH TIDE HR:MM	TOTAL COLIFORMS NO/100ml		FAECAL COLIFORMS NO/100ml		FAECAL STREPTOCOCCI NO/100ml	pH UNITS	ENTERO VIRUSES PFU/10 LITRES	TRANSPARENCY METRES	SALMONELLA CODE	COLOUR CODE	MINERAL OILS CODE	SURFACE-ACTIVE SUBSTANCES CODE	PHENOLS CODE
			PRESUMPTIVE MF	CONFIRMED MF	PRESUMPTIVE MF	CONFIRMED MF									
08/05/92	11:25		3100		3100		160	7.9		0					
15/05/92	11:25		2400		1200		170	7.9		0					
28/05/92	12:30		13000		1400		270	7.6		0					
03/06/92	12:05		5300		4300		180	7.7		0					
12/06/92	11:20		7000		3100		1300	7.6		0					
19/06/92	11:10		3500		3300		120	7.6		0					
07/07/92	11:10		3600		1500		330	7.4		0					
10/07/92	13:20		84000		23000		1500	7.4		0					
14/07/92	11:26		16000		7200		2100	7.5		0					
20/07/92	11:47		17000		9000		1800	7.2		0					
23/07/92	11:40		18000		5600		440	7.3		0					
30/07/92	11:40		3100		2000		330	7.6		0					
08/08/92	12:25		3500		1400		320	7.4		0					
17/08/92	12:00		13000		2400		200	7.4		0					
24/08/92	12:21		10000		16000		530	7.1		0					
28/08/92	11:05		3700		2200		350	7.2		0					
03/09/92	11:05		5100		2800		390	7.5		0					
10/09/92	11:05		3200		700		240	7.6		0					
19/09/92	11:55		11000		4600		320	7.7		0					
28/09/92	11:00		16000		9000		200	7.6		0					

MF = MEMBRANE FILTRATION

KEY : 0 - ABSENT 1 - PRESENT

ANALYTICAL SUMMARY OF:-

RIVER ERME AT SEQUER'S BRIDGE

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
080591	1145	SQMR	2F	3300	800	290
080591	1135	SQSB	2F	4600	1800	290
100591	1320	SQMR	2F	2700	1000	306
150591	1145	SQSB	2F	5500	2800	70
240591	1140	SQSB	2F	5400	2100	1400
310591	1215	SQSB	2F	46000	11000	550
310591	1315	SQMR	2F	13300	7800	340
030691	1150	SQSB	2F	27000	5400	490
040691	1121	SQMR	2F	6300	3200	180
120691	1150	SQSB	2F	14000	4500	890
190691	1050	SQSB	2F	12000	1900	180

Type "C" to Continue, "P" for previous screen, "Q" to Quit ( )

TYPE ONLINE READY

ANALYTICAL SUMMARY OF:-

RIVER ERME AT SEQUER'S BRIDGE

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
250691	1150	SQMR	2F	9800	3700	650
280691	1045	SQSB	2F	5500	1900	160
030791	1205	SQMR	2F	1900	1100	104
050791	1045	SQSB	2F	7000	1100	260
120791	1045	SQMR	2F	3400	700	124
140791	1120	SQSB	2F	4500	1500	220
230791	1125	SQMB	2F	6100	1500	360
300791	1130	SQMB	2F	11000	3300	540
080891	1050	SQMB	2F	17000	2700	340
150891	1200	SQMB	2F	7000	2300	460
210891	1355	SQMR	2F	9400	3000	222

Type "C" to Continue, "P" for previous screen, "Q" to Quit ( )

TYPE ONLINE READY

ANALYTICAL SUMMARY OF:-

RIVER ERME AT SEQUER'S BRIDGE

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
220891	1305	SQMB	2F	250000	75000	4900
270891	1122	SQMB	2F	16000	1400	450
030991	1300	SQMR	2F	20000	4300	480
030991	1320	SQMB	2F	17000	2700	280
100991	1140	SQMR	2F	730000	1800	230
120991	1035	SQMB	2F	13000	2400	360
190991	1155	SQMB	2F	26000	4000	480
280991	1100	SQMB	2F	38000	3600	5900
011091	1242	SQMR	2F	5300	2300	580

ANALYTICAL SUMMARY OF:-

RIVER ERME AT SEQUER'S.BRIDGE

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPTOCOCC /100ML
220891	1305	SQMB	2F	250000	75000	4900
270891	1122	SQMB	2F	16000	1400	450
030991	1300	SQMR	2F	20000	4300	480
080991	1320	SQMB	2F	17000	2700	280
100991	1140	SQMR	2F	730000	1800	230
120991	1035	SQMB	2F	13000	2400	360
190991	1155	SQMB	2F	26000	4000	480
280991	1100	SQMB	2F	38000	8600	5900
011091	1242	SQMR	2F	5300	2300	580

Type "C" to Continue, "P" for previous screen, "Q" to Quit ( )

TYPE ONLINE READY

ANALYTICAL SUMMARY OF:-

ANALYTICAL SUMMARY OF:-

RIVER ERME AT SEQUER'S BRIDGE

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
080590	1120	SQMR	2F			
080590	1125	SQMR	2F	52000	7900	650
080590	1200	SQSB	2F	42000	7500	810
150590	1210	SQSB	2F	70000	13800	780
210590	1145	SQSB	2F	39000	28000	188
240590	1200	SQSB	2F	8000	1480	88
030690	1130	SQSB	2F	65000	4200	136
040690	0001	SQMR	2F			
040690	0940	SQMR	2F	8500	1900	150
120690	1140	SQSB	2F	24000	5400	180
210690	1145	SQSB	2F	28800	9700	980

Type "C" to Continue, "P" for previous screen, "Q" to Quit ( )

TYPE ONLINE READY

ANALYTICAL SUMMARY OF:-

RIVER ERME AT SEQUER'S BRIDGE

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
270690	1135	SQSB	2F	22800	4100	510
290690	1140	SQMR	2F	35000	4200	320
290690	1145	SQMR	2F			
020790	1225	SQSB	2F	8100	1160	132
050790	0855	SQMR	2F			
050790	0930	SQMR	2F	20800	4700	410
090790	1155	SQSB	2F	35000	1080	158
160790	1015	SQMR	2F	14200	2200	164
160790	1017	SQMR	2F			
180790	1145	SQSB	2F	5500	1320	146
270790	1200	SQSB	2F	7600	2800	208

Type "C" to Continue, "P" for previous screen, "Q" to Quit ( )

TYPE ONLINE READY

ANALYTICAL SUMMARY OF:-

RIVER ERME AT SEQUER'S BRIDGE

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
030890	1210	SQMR	2F			
030890	1212	SQMR	2F	6800	5000	146
050890	1145	SQSB	2F	9200	2800	196
060890	0925	SQMR	2F	14600	2200	136
060890	0930	SQMR	2F			
090890	1135	SQSB	2F	3800	1480	104
140890	1200	SQSB	2F	6400	1660	190
150890	1248	SQMR	2F	154000	20400	1600
150890	1250	SQMR	2F			
230890	1225	SQSB	2F	17600	3200	240
230890	1228	SQMR	2F			

Type "C" to Continue, "P" for previous screen, "Q" to Quit ( )
TYPE ONLINE READY

ANALYTICAL SUMMARY OF:-

RIVER ERME AT SEQUER'S BRIDGE

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
230890	1230	SQMR	2F	19000	3200	348
290890	1242	SQMR	2F	14400	2800	376
290890	1440	SQMR	2F			
040990	1230	SQSB	2F	2900	730	132
070990	1015	SQMR	2F	6500	1800	350
070990	1016	SQMR	2F			
110990	1135	SQSB	2F	14700	7700	568
110990	1225	SQMR	2F	12400	6100	294
110990	1230	SQMR	2F			
170990	1215	SQSB	2F	7400		142
200990	1155	SQSB	2F	8400	1010	132

Type "C" to Continue, "P" for previous screen, "Q" to Quit ( )
TYPE ONLINE READY

ANALYTICAL SUMMARY OF:-

RIVER ERME AT SEQUER'S BRIDGE

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
280990	0910	SQSB	2F	3100	810	138

RIVER ERME AT SEQUER'S BRIDGE

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
060589	1130	SQSB	2F	2500	970	100
120589	1325	SQSB	2F	7500	2100	190
220589	1115	SQSB	2F	2800	960	26
240589	0945	SQMR	2F			
310589	1130	SQSB	2F	29000	5200	178
060689	1245	SQSB	2F	7000	3000	186
230689	1135	SQSB	2F	31000	10200	86
030789	1045	SQSB	2F	3600	820	78
050789	1230	SQMR	2F			
110789	1215	SQSB	2F	48000	10300	166
170789	1120	SQSB	2F	8300	1700	82

Type "C" to Continue, "P" for previous screen, "Q" to Quit ( )

TYPE ONLINE READY

/

ANALYTICAL SUMMARY OF:-

RIVER ERME AT SEQUER'S BRIDGE

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
250789	1120	SQSB	2F	8300	2900	76
310789	1155	SQMR	2F			
020889	1050	SQSB	2F	4000	880	54
100889	1140	SQSB	2F	100000	21400	4500
170889	1035	SQSB	2F	7200	760	84
250889	0905	SQMR	2F	4400	1000	120
250889	1050	SQSB	2F	3800	820	102
020989	1310	SQSB	2F	860	530	74
050989	0850	SQMR	2F			
080989	1045	SQSB	2F	1500	560	60
130989	1025	SQMR	2F			

Type "C" to Continue, "P" for previous screen, "Q" to Quit ( )

TYPE ONLINE READY

ANALYTICAL SUMMARY OF:-

RIVER ERME AT SEQUER'S BRIDGE

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
040588	1005	SQMR	2F			
140588	1630	SQSB	2F	9900	4700	209
270588	1345	SQSB	2F	2400	930	128
010688	1020	SQMR	2F			
090688	1355	SQSB	2F	8300	4200	258
120688	1130	SQSB	2F	13000	1500	70
220688	1255	SQSB	2F	15000	3000	102
050788	1300	SQSB	2F	52000	5800	356
060788	0920	SQMR	2F			
100788	1030	SQSB	2F	16000	5300	1100
180788	1250	SQSB	2F	6800	3100	144

Type "C" to Continue, "P" for previous screen, "Q" to Quit ( )
TYPE ONLINE READY

ANALYTICAL SUMMARY OF:-

RIVER ERME AT SEQUER'S BRIDGE

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
040888	1140	SQSB	2F	10000	1430	178
070888	1030	SQSB	2F	10000	1200	170
080888	1405	SQSB	2F	21000	7100	570
100888	0935	SQMR	2F			
110888	1110	SQMS	8B			
230888	1310	SQSB	2F	22000	5300	670
310888	1105	SQSB	2F	21000	4500	840
020988	1320	SQSB	2F	8900	3100	250
040988	0915	SQSB	2F	4300	850	108
120988	0955	SQMR	2F			
130988	1210	SQSB	2F	7600	2900	242

Type "C" to Continue, "P" for previous screen, "Q" to Quit ( )
TYPE ONLINE READY

ANALYTICAL SUMMARY OF:-

RIVER ERME AT SEQUER'S BRIDGE

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
150988	1225	SQSB	2F	5400	1600	470
220988	1125	SQSB	2F	88000	9600	1310

ANALYTICAL SUMMARY OF:-

RIVER ERME AT SEQUER'S BRIDGE.

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
130586	0940	SQSB	2F	21700	19400	
140586	1220	HRPF	2F			
080786	1135	HRPF	2F			
090786	0001	SQSB	2F	6800	5500	
090786	1450	HRPF	2F			
120886	0001	SQSB	2F	9300	2120	
120886	1145	HRPF	2F			
160986	0001	SQSB	2F	6600	3200	
160986	1345	SQMR	2F			

Type "C" to Continue, "P" for previous screen, "Q" to Quit (C)

TYPE ONLINE READY

ANALYTICAL SUMMARY OF:-

RIVER ERME AT SEQUER'S BRIDGE

Date	Time	Type Purp	Mat	COLI-FORMS PRES.	E.COLI PRES.	STREPT OCOCC /100ML
190587	1120	SQSB	2F	13200	8600	
020687	1000	SQSB	2F	52000	12300	
160687	0955	SQSB	2F	22000	5300	
300687	1000	SQSB	2F	9800	2600	
150787	1525	SQSB	2F	151000	49000	
210787	0950	SQSB	2F	32000	4900	
040887	1000	SQSB	2F	34000	5600	
180887	1110	SQSB	2F	6300	1700	
010987	1000	SQSB	2F	9900	2730	
150987	1000	SQSB	2F	8300	3400	
290987	1010	SQSB	2F	10200	1280	

Type "C" to Continue, "P" for previous screen, "Q" to Quit ( )

TYPE ONLINE READY

APPENDIX II

TABLE 1 : INVESTIGATION RESULTS

SITE 1 - R. ERME AT SEQUERS BRIDGE

DATE	TIME	TOTAL COLIFORMS	E. COLI	F. STREPS
08/12/95	1310	32000	5100	4500
13/12/95	1255	20000	6400	3300
03/01/96	840	14000	3100	730
11/01/96	1215	32000	25000	5500
16/01/96	1025	27000	12000	4000
22/01/96	1200	41000	27000	4900

SITE 2 - R. ERME ABOVE HOLBETON STREAM

DATE	TIME	TOTAL COLIFORMS	E. COLI	F. STREPS
08/12/95	1420	23000	4900	2600
13/12/95	1415	12000	1600	900
03/01/96	955	11000	2700	2400
11/01/96		Sample not possible		
16/01/96	900	6700	1500	1160
22/01/96	1240	10000	2800	1700

SITE 3 - HOLBETON STREAM ABOVE STW O/F PIPE

DATE	TIME	TOTAL COLIFORMS	E. COLI	F. STREPS
08/12/95	1425	1000	290	420
13/12/95	1435	600	180	130
03/01/96	1005	1500	190	280
11/01/96	1410	12000	8000	4700
16/01/96	910	83000	45000	2000
22/01/96	1245	1800	660	390

SITE 4 - R. ERME BELOW HOLBETON STEAM

DATE	TIME	TOTAL COLIFORMS	E. COLI	F. STREPS
08/12/95	1340	40000	5800	2900
13/12/95	1425	26000	21000	8000
03/01/96	1015	26000	6100	1800
11/01/96	1440	28000	20000	6000
16/01/96	850	48000	46000	2400
22/01/96	1255	51000	27000	3900

SITE 5 - AYLESTONE BROOK

DATE	TIME	TOTAL COLIFORMS	E. COLI	F. STREPS
08/12/95	1330	3900	1700	1000
13/12/95	1325	1800	510	80
03/01/96	905	8000	1300	2200
11/01/96	1340	19000	12000	3400
16/01/96	945	2500	570	200
22/01/96	1210	5600	2800	910

SITE 6 - R. ERME ABOVE AYLESTONE BROOK

DATE	TIME	TOTAL COLIFORMS	E. COLI	F. STREPS
08/12/95		Sample not possible		
13/12/95	1330	9000	1700	50
03/01/96	1414	15000	2800	1900
11/01/96	1330	13000	13000	4100
16/01/96	945	3300	2100	2000
22/01/96	1215	14000	6200	2000

SITE 7 - R. ERME AT MOUTH

DATE	TIME	TOTAL COLIFORMS	E. COLI	F. STREPS
08/12/96		Sample not possible		
13/12/95	1505	10000	4400	710
03/01/96	1045	16000	2600	1500
11/01/96	1500	29000	15000	5300
16/01/96	800	10000	1700	650
22/01/96	1320	3500	1300	500

APPENDIX III

Output from RAINARK data logging & processing system, (c)1989-96 Hydro-Logic L
STATION RAINFALL REPORT Printed on 09/02/1996 at 14:00 hr

National Rivers Authority - South West Region

GAUGE REFERENCE	: **366754**	STATION NAME	: **HIGHER LUDBROOK**
M.O. REFERENCE	: **366754**	LOCATION	: **ERMINGTON**
GAUGE TYPE	: **Storage**	GRID REF	: **SX 6602 5378**
RAIN DAY START	: **09:00 GMT**	ALTITUDE	: **57.0 m**
Annual Summary	: **Dec 1995 to Nov 1996**	Record Type	: **Archive file**
		Quality Level	: **Observer Data**

Daily Rainfall totals recorded in mm, including LTA details(1941-1970)

	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
1	5.4	0.8											1
2	2.5	0.1											2
3	0.1	A											3
4	-	19.0											4
5	T	9.5											5
6	T	11.4											6
7	11.4	11.3											7
8	-	7.5											8
9	-	2.5											9
10	-	10.7											10
11	-	7.8											11
12	T	6.7											12
13	T	18.9											13
14	T	2.5											14
15	2.9	0.1											15
16	7.6	T											16
17	T	0.3											17
18	19.5	T											18
19	A	A											19
20	37.3	6.8											20
21	28.4	-											21
22	22.5	3.4											22
23	4.5	11.7											23
24	-	14.6											24
25	-	T											25
26	0.2	T											26
27	-	0.6											27
28	-	-											28
29	6.3	-											29
30	8.6	-											30
31	3.5	-											31
Totals:	160.7	146.2											
LTA :	-	-	-	-	-	-	-	-	-	-	-	-	
% LTA :	-	-											
Mx.Day:	37.3	19.0											

Annual Total : 306.9 mm M
Total LTA (mm) : 1168.0 mm
Total (%LTA) : 26 % M

Quality Type : E = Edited S = Snow ? = Suspect M = Incomplete T = Trace
() = Logger/check gauge inconsistency

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************************          ****************************************          ************************
*                      *          *                                      *          *                      *
*   SWWA       HIPS   *          *        HYDROMETRIC SECTION           *          *   09/02/96  11:42    *
*   REFERENCE  R106   *          *      HYDROMETRIC SERVICES            *          *   PAGE          2    *
*                      *          *          MANLEY HOUSE                *          *                      *
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MONTHLY SUMMARY OF RIVER FLOW FOR DEC 1995
STATION SX65F051
DESCRIPTION ERMINGTON RIVER ERME
NGR SX-6420-5320
CATCHMENT AREA 43.5 SQ KM
START 0900.01.12.1995 FIRST RATING CURVE START 0015.01.01.1979
END 0859.01.01.1996 LAST RATING CURVE START 0015.01.01.1979

DAY	NUMBER OF READINGS	MEASURED FLOW DMF---TCMD	DMF-CUMECS	MAX-CUMECS	TIME	MIN-CUMECS	TIME	STAGE DMS-M	MAX-M	TIME	MIN-M	TIME
1	96	246.698	2.85530	4.09499	1430	2.25851	0830	0.433	0.505	1430	0.395	0830
2	96	185.149	2.14293	2.39121	1015	2.01671	0215	0.386	0.404	1015	0.378	0215
3	96	174.117	2.01524	2.11486	1915	1.87995	0630	0.377	0.385	1915	0.368	0630
4	96	151.013	1.74784	1.97526	1000	1.64418	0300	0.357	0.375	1000	0.350	0300
5	96	135.551	1.56888	1.65692	0900	1.48233	0730	0.344	0.351	0900	0.337	0730
6	96	126.207	1.46073	1.50677	1215	1.39815	0545	0.335	0.339	1215	0.330	0545
7	96	141.194	1.63419	2.52712	0015	1.43397	0900	0.348	0.413	0015	0.333	0900
8	96	133.077	1.54025	1.74731	0900	1.37449	0730	0.341	0.358	0900	0.328	0730
9	96	112.737	1.30483	1.38630	0945	1.23613	0645	0.322	0.329	0945	0.316	0645
10	96	196.880	2.27870	3.39129	0230	1.24742	0900	0.391	0.466	0230	0.317	0900
11	96	219.703	2.54286	2.92128	0900	1.89345	0845	0.413	0.438	0900	0.369	0845
12	96	132.909	1.53830	1.87995	0900	1.35099	0515	0.341	0.368	0900	0.326	0515
13	96	108.277	1.25321	1.37449	0900	1.18033	0230	0.317	0.328	0900	0.311	0230
14	96	97.648	1.13018	1.20252	0930	1.07903	0500	0.305	0.313	0930	0.300	0500
15	96	93.017-L	1.07659-L	1.13776	1415	1.03003-L	0300	0.299	0.307	1415	0.294	0300
16	96	119.069	1.37812	1.77351	0545	1.03003	0900	0.326	0.360	0545	0.294	0900
17	96	117.625	1.36140	1.68254	0915	1.14629	0800	0.326	0.353	0915	0.308	0800
18	96	114.861	1.32941	2.34661	0845	1.05438	2200	0.321	0.401	0845	0.297	2200
19	96	487.545	5.64288	9.97932	0245	2.43616	0900	0.577	0.768	0245	0.407	0900
20	96	384.465	4.44983	5.73286	0845	3.46085	0145	0.522	0.586	0845	0.470	0145
21	96	1103.739	12.77476	40.00280-H	0515	4.02023	2115	0.823	1.666	0515	0.501	2115
22	96	1164.979-H	13.48356-H	21.99185	2230	7.85209	0845	0.878	1.146	2230	0.684	0845
23	96	536.038	6.20415	7.75807	0900	5.53939	2300	0.608	0.680	0900	0.577	2300
24	96	388.191	4.49295	5.51807	0900	3.81767	0830	0.525	0.576	0900	0.490	0830
25	96	295.544	3.42065	3.81767	0915	3.05252	0830	0.467	0.490	0915	0.446	0830
26	96	249.278	2.88516	3.06910	0900	2.68186	0800	0.435	0.447	0900	0.423	0800
27	96	218.303	2.52666	2.68186	0930	2.31709	0845	0.412	0.423	0930	0.399	0845
28	96	191.530	2.21678	2.34661	0915	2.07255	0715	0.392	0.401	0915	0.382	0715
29	96	176.682	2.04493	2.45122	0830	1.96152	0145	0.379	0.408	0830	0.374	0145
30	96	304.920	3.52916	4.43865	2330	2.40615	0945	0.472	0.523	2330	0.405	0945
31	96	242.710	2.80915	3.27100	0900	2.57313	0830	0.430	0.459	0900	0.416	0830

MONTHLY STATISTICS

TOTAL FLOW	96.6394 CUMEC DAYS	MAX FLOW	40.00280 CUMECS	MAX STAGE	1.666 METRES
TOTAL FLOW	8349.64 TCM	MIN FLOW	1.03003 CUMECS	MIN STAGE	0.294 METRES
MEAN FLOW	3.11740 CUMECS	MAX DMF	13.48356 CUMECS	MAX DMS	0.878 METRES
MEAN FLOW	269.343 TCMD	MIN DMF	1.07659 CUMECS	MIN DMS	0.299 METRES
MEAN STAGE	0.425 METRES				

MONTHLY SUMMARY OF RIVER FLOW FOR JAN 1996

STATION SX65F051
DESCRIPTION ERMINGTON RIVER ERME
NGR SX-6420-5320
CATCHMENT AREA 43.5 SQ KM
START 0900.01.01.1996
END 0859.01.02.1996

FIRST RATING CURVE START 0015.01.01.1979
LAST RATING CURVE START 0015.01.01.1979

DAY	NUMBER OF READINGS	MEASURED FLOW DMF---TCMD	DMF-CUMECS	MAX-CUMECS	TIME	MIN-CUMECS	TIME	STAGE DMS-M	MAX-M	TIME	MIN-M	TIME
1	96	207.760	2.40463	2.55776	0900	2.15753	0645	0.404	0.415	0900	0.388	0645
2	96	169.938	1.96688	2.14327	0900	1.81312	0715	0.374	0.387	0900	0.363	0715
3	96	164.983	1.90953	2.31709	2215	1.72128	1745	0.369	0.399	2215	0.356	1745
4	96	250.084	2.89449	3.63740	1830	2.31709	0900	0.435	0.480	1830	0.399	0900
5	96	392.588	4.54385	8.45458	1415	2.80847	0845	0.523	0.709	1415	0.431	0845
6	96	284.515	3.29300	4.75396	0845	2.63503	1330	0.458	0.539	0845	0.420	1330
7	96	339.675	3.93143	6.46744	0845	2.87271	0400	0.493	0.622	0845	0.435	0400
8	96	704.477	8.15367	12.25250	1015	4.32279	0845	0.689	0.847	1015	0.517	0845
9	96	379.123	4.38799	5.90720	2130	3.70906	1400	0.519	0.594	2130	0.484	1400
10	96	293.915	3.40180	4.47756	0845	3.08571	0400	0.466	0.525	0845	0.448	0400
11	96	616.758	7.13840	12.68356	1600	4.63464	0900	0.643	0.861	1600	0.533	0900
12	96	462.305	5.35076	6.15553	2330	4.41925	0830	0.567	0.607	2330	0.522	0830
13	96	708.178-H	8.19651-H	15.48726	0100	3.78131	1515	0.676	0.946	0100	0.488	1515
14	96	518.152	5.99713	8.98061	0900	4.55581	0745	0.598	0.730	0900	0.529	0745
15	96	350.406	4.05562	4.53619	0900	3.72707	0800	0.502	0.528	0900	0.485	0800
16	96	298.495	3.45480	3.72707	0900	3.27100	0845	0.469	0.485	0900	0.459	0845
17	96	269.037	3.11386	3.23697	0900	3.00302	0845	0.449	0.457	0900	0.443	0845
18	96	245.557	2.84210	2.97021	0900	2.76070	0015	0.433	0.441	0900	0.428	0015
19	96	220.722	2.55466	2.76070	0900	2.48146	2330	0.414	0.428	0900	0.410	2330
20	96	250.945	2.90445	3.47834	0415	2.43616	1230	0.436	0.471	0415	0.407	1230
21	96	223.479	2.58656	3.20309	0900	2.18618	0815	0.416	0.455	0900	0.390	0815
22	96	184.989	2.14107	2.22946	0345	2.03061	1730	0.386	0.393	0345	0.379	1730
23	96	198.586	2.29845	2.66622	0600	2.07255	1445	0.397	0.422	0600	0.382	1445
24	96	611.690	7.07974	18.42489-H	2000	2.39121	1030	0.617	1.026	2000	0.404	1030
25	96	240.843	2.78753	3.78131	0900	2.37630	0745	0.429	0.488	0900	0.403	0745
26	96	187.625	2.17158	2.37630	0900	2.07255	0045	0.388	0.403	0900	0.382	0045
27	96	173.955	2.01337	2.08662	0900	1.96152	1915	0.377	0.383	0900	0.374	1915
28	96	166.232	1.92398	2.03061	1045	1.83973	0615	0.371	0.379	1045	0.365	0615
29	96	147.755	1.71013	1.85310	0900	1.65692	0115	0.355	0.366	0900	0.351	0115
30	96	136.508	1.57995	1.70832	1030	1.54373	2315	0.344	0.355	1030	0.342	2315
31	96	124.874-L	1.44530-L	1.58108	0915	1.37449-L	0130	0.333	0.345	0915	0.328	0130

MONTHLY STATISTICS

TOTAL FLOW	110.2330 CUMEC DAYS	MAX FLOW	18.42489 CUMECS	MAX STAGE	1.026 METRES
TOTAL FLOW	9524.13 TCM	MIN FLOW	1.37449 CUMECS	MIN STAGE	0.328 METRES
MEAN FLOW	3.55590 CUMECS	MAX DMF	8.19651 CUMECS	MAX DMS	0.689 METRES
MEAN FLOW	307.230 TCMD	MIN DMF	1.44530 CUMECS	MIN DMS	0.333 METRES
MEAN STAGE	0.462 METRES				