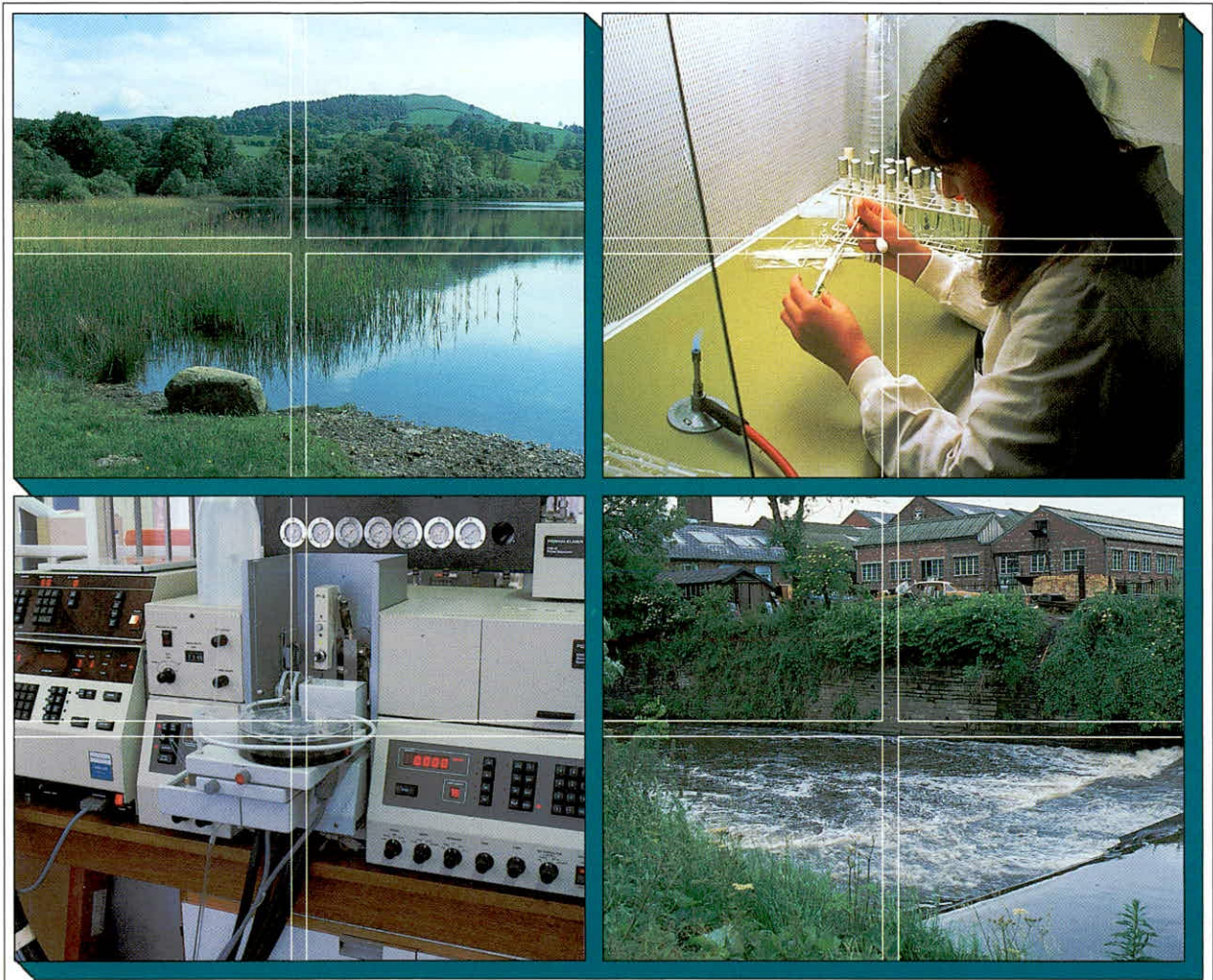




An audit of performance in the processing of macro-invertebrate samples in 1992. NRA Southern Region

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of macro-invertebrate samples in 1992.**
NRA Southern Region

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1. INTRODUCTION

In 1992 the sampling of aquatic macro-invertebrates for the biological assessment of river quality continued throughout the United Kingdom. This task was undertaken by the National Rivers Authority (NRA) in England and Wales, the River Purification Boards (RPBs) in Scotland and the Industrial Research & Technology Unit (IRTU) in Northern Ireland.

In view of the number of staff involved and the variability of sample processing techniques, it was recognised that an independent quality control exercise was necessary to promote a consistently high level of reliability. The IFE was contracted to undertake an audit of the sample sorting and identification performance of each NRA region, several RPBs and the IRTU. This report presents the results of 60 samples audited for Southern Region of the NRA. The IFE was not required to perform any statistical analyses nor interpretation of the results of the audit.

Each organisation employed standard collection procedures, as used in the 1990 River Quality Survey, and the sampling strategy was therefore compatible with RIVPACS (River Invertebrate Prediction And Classification System), which has been developed by the Institute of Freshwater Ecology (IFE).

Samples were sorted by NRA, RPB and IRTU personnel for the families of macro-invertebrates included in the Biological Monitoring Working Party (BMWP) system. Taxa present were recorded on site data sheets. Sample processing and recording techniques varied from region to region.

2. SAMPLE SELECTION

Samples for audit were selected internally by each of the agencies being monitored. The biologists processing these samples had no prior knowledge of the samples to be audited.

The manner of sample selection, which biologists would be monitored and the number of audit samples from each season, were left to the discretion of the agency, within the limits of the total number of samples that IFE was contracted to audit.

3. SAMPLE PROCESSING

The normal protocol for NRA, RPB and IRTU biologists was to sort their samples within the laboratory and to select examples of each scoring taxon within the BMWP system. In most cases, the invertebrates were placed in a vial of preservative (4% formaldehyde solution or 70% industrial alcohol) and the BMWP taxa were listed on a data sheet. The vial of animals and the sorted material were then returned to the sample container and preservative added. Thus, each sample available to IFE for audit should have included:

- i) a list of the BMWP families found in the sample
- ii) a vial containing representatives from each family
- iii) the preserved sample

When these three elements were present, the sequence of operations at IFE was as follows:

- a) The remainder of the sample was sorted and the BMWP families listed
- b) The families contained within the vial were identified and listed
- c) A comparison was made between the NRA listing of families and those identified from the vial by IFE
- d) A comparison was made between the NRA listing of families and those found in the sample by IFE
- e) "Losses" or "gains" from the NRA listing of families were noted. In the case of "gains", each additional family was identified, where possible, to species level, in order to clarify any specific repetitive errors.

For a number of different reasons, some samples did not include a vial containing representative examples of the families listed on the data sheet. Others arrived with the vial damaged in transit such that the representative examples were no longer separated. For these samples, only operations a), d) and e) above were appropriate.

Several directives were issued to IFE relating to the treatment of BMWP taxa. Terrestrial representatives of BMWP scoring families, animals deemed to have been dead at the time of sampling, cast insect skins, pupal exuviae, empty mollusc shells and posterior ends of "living" specimens were to be excluded from the listing of families present. Chrysomelidae and Curculionidae, which appear in the BMWP list, were also to be excluded for the purposes of the audit. Trichopteran pupae, although not routinely identified by many biologists, were to be included in the listing of families.

4. REPORTING

The results of each sample audit were recorded on a standard report form (Table 1). For audit samples where a vial of animals was included, the comparison between the NRA listing and the taxa found in the vial by IFE was shown in box A of the report form. Discrepancies could be due to carelessness, misidentifications or errors in completing the NRA data sheet. Families not on the NRA listing but found by IFE in the remainder of the sample were entered in box B of the report form under "additional families". When the families listed as "losses" in section A of the report form were compared with the full list of families recorded in the sample by IFE, some apparent losses from the vial were offset by the presence of those families in the remainder of the sample. These taxa were therefore listed in the "losses" box of section A and the "gains" box of section B and were neither a net loss nor a net gain. In these cases, the families were marked with an asterisk in both boxes. Such errors are noted as "omissions" in the tables which summarise the results for each season (Tables 2, 3 and 4).

Species identifications, state of development (eg adult or larval coleopterans) and the presence of a single representative of a family within the remainder of the sample were recorded in the notes section of the report form. Where the NRA data sheet indicated that a family was noted and released at the site, this was recorded in the notes section but not included as a "loss", even though the family was not found in the vial.

For those samples in which the vial of animals was damaged or missing, box A of the report form was not applicable (N/a). Families not on the NRA list but present in the sample were listed in box B under "additional families" as before. Families recorded on the NRA list but not found by IFE were indicated on the left hand side of box B. If the vial of animals was retained by the NRA, entries in this box could include the sole representative of a family which was removed by the NRA, a family seen at the site which escaped or was released (without mention being made on the NRA data sheet), inaccurate identification, the wrong family box being ticked on the NRA data sheet or the family being present in the sample but missed by IFE.

Results of the audits of individual samples are presented in the Appendix.

ACKNOWLEDGEMENTS

Thanks to Kay Symes for help with production of results and to Valerie Palmer for typing the manuscript.

TABLE 1. The IFE Report form

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION RIVER

DATE SITE

SORTER SAMPLE CODE

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE		

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	

NET LOSSES NET GAINS

NOTES:

TABLE 2. The 15 spring samples audited for Southern Region.

River	Site	Sorter	Losses	Gains	Omissions
Charing Stream	Leacon Farm	E8	0	2	0
Hammer Stream Trib.	Ibornden Park	E9	0	1	1
Hexden Channel Trib.	Cattsford	E8	0	1	0
Dour	Kearsney	E4	0	0	0
Dour	Pencester Gardens	E2	4	0	1
Woodsmill Stream	Woodsmill Bridge	W13	0	2	1
Blackwater	Wellow Mill	W15	0	2	0
Awbridge Danes Stream	Awbridge Farm	W12	0	2	0
Warblington Stream No. 4	Wade Court	W15	0	0	0
Adur East	Wortleford Bridge	W14	0	1	0
Titchfield Stream	Road Bridge	W12	0	4	0
Matley Bog	Matley Passage	W2	0	5	0
Aylesford Stream	Swatfield Bridge	E8	0	1	0
Sissinghurst Stream	Sissinghurst Castle Road	E11	0	0	0
Great Stour	d/s Plucks Gutter	E12	0	1	0

TABLE 3. The 30 summer samples audited for Southern Region

River	Site	Sorter	Losses	Gains	Omissions
Wallers Haven	Boreham Bridge	E7	0	1	0
Brenchley Stream	Bennets Farm	E10	0	1	0
Cuckmere	Sheepwash Bridge	E3	0	5	1
Lesser Teise	Spitz Bridge	E7	1	3	0
Medway	Hartlake Bridge	E6	0	1	0
Tickerage Stream	Great Streele Farm	E4	0	1	0
Uck	Isfield Bridge	E14	3	1	0
Pilhill Brook	Longbridge, Andover	W18	1	0	0
Broad Rife	Ferry Sluice	W17	0	6	1
Avon Water	Efford Bridge	W15	0	2	0
Adur East	Mock Bridge	W15	0	1	0
Titchfield Stream	Road Bridge	W14	0	4	0
Test	Polhampton	W19	0	1	0
Beaulieu	North Gate	W18	0	1	0
Hamble	Maddoxford Farm	W9	0	1	0
Park Water	Landfordwood	W16	1	2	0
Merston Stream	Blackwater	W9	0	0	0
Lavant (Hampshire)	IBM Havant	W1	0	4	0
Monktonmead Brook	Pennyfeathers Lane	W17	1	0	0
Dever	Bransbury	W18	0	1	0
Boldings Brook	A281 Farthings Bridge	W18	0	0	0
Warblington Stream	Church Path	W16	0	1	0
Anton	Fullerton	W16	0	0	0
Caul Bourne	Shalfleet	W17	0	1	0
Lukely Brook	Westminster Lane	W17	0	2	0
Bow Lake	Bishopstoke Road	W15	1	3	0
Kent Rother	Blackwall Bridge	E3	0	2	0
Sussex Rother	Trotton Bridge	W1	0	4	0
Shuttle	Black Prince	E2	0	2	1
Test	Broadlands	W19	0	0	0

TABLE 4. The 15 autumn samples audited for Southern Region

River	Site	Sorter	Losses	Gains	Omissions
Bevern Stream	Bevern Bridge	E3	1	1	0
North End Stream	North End	E12	0	3	1
Rother	Shopham Bridge	W1	0	3	1
Len Tributary	d/s Leeds STW	E2	0	2	0
Ridgewood Stream	A26 Bridge	E4	0	5	0
Limden	Etchingham	E11	0	4	0
Loxwood Stream	Drungewick	W17	1	3	0
* Bull	Lea Bridge	E1	1	3	0
Tidebrook	Buttons	E8	1	2	0
Teise	Lamberhurst	E1	0	0	0
Eridge Stream	Forge Farm	E4	0	3	0
Cradlebridge Sewer	B2080 Redhill Bridge	E11	0	3	0
Abbey Petty Sewer	Russet Farm	E14	1	2	0
East Stour	Grove Bridge, Sellinge	E8	0	0	0
Great Stour	Horton	E11	0	0	0

* indicates vial damaged in transit

APPENDIX

Results of individual sample audits

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Charing Stream
DATE	11.3.92	SITE	Leacon Farm
SORTER	E8	SAMPLE CODE	NRA05 1098

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Planorbidae 2 Asellidae

NET LOSSES 0 NET GAINS 2

NOTES:

1 Anisus vortex 1 only
2 Asellus meridianus

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Hammer Stream Trib
DATE	26.3.92	SITE	Ibornden Park
SORTER	E9	SAMPLE CODE	NRA05 1073

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Scirtidae*	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	2 Nemouridae 3 Scirtidae*

NET LOSSES 0 NET GAINS 1

NOTES:

2 Amphinemura sp. 1 only
3 Prionocyphon serricornis (larva) 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Hexden Channel Trib (Iden G)
DATE	26.5.92	SITE	Cattsford
SORTER	E8	SAMPLE CODE	NRA05 1137

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Psychomyiidae

NET LOSSES 0 NET GAINS 1

NOTES:

1 Lype sp. 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Dour
DATE	19.3.92	SITE	Kearsney
SORTER	E4	SAMPLE CODE	NRA05 1112

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	None

NET LOSSES NET GAINS

NOTES:

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Dour
DATE	19.3.92	SITE	Pencester Gardens
SORTER	E2	SAMPLE CODE	NRA05 1113

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Valvatidae 2 Hydrobiidae 3 Physidae 4 Planorbidae 5 Gammaridae*	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	6 Gammaridae*

NET LOSSES 4 NET GAINS 0

NOTES:

1,2,3,4 Empty shells in vial
6 Gammarus pulex

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Woodsmill Stream
DATE	18.3.92	SITE	Woodsmill Bridge
SORTER	W13	SAMPLE CODE	NRA05 3010

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Baetidae*	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	2 Hydrobiidae 3 Baetidae* 4 Hydrophilidae

NET LOSSES 0 NET GAINS 2

NOTES:

2 Potamopygus jenkinsi
3 Baetis rhodani, Centroptilum luteolum, Cloeon dipterum
4 Laccobius minutus (adult) 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Blackwater
DATE	1.4.92	SITE	Wellow Mill
SORTER	W15	SAMPLE CODE	NRA05 4157

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	1 Sericostomatidae

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	2 Ephemerellidae

NET LOSSES 0 NET GAINS 2

NOTES:

1 Sericostoma personatum
2 Ephemerella ignita 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Awbridge Danes Stream
DATE	22.4.92	SITE	Awbridge Farm
SORTER	W12	SAMPLE CODE	NRA05 4151

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Beraeidae 2 Leptoceridae

NET LOSSES NET GAINS

NOTES:

1 Beraea pullata 1 only
2 Athripsodes albifrons/bilineatus 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Warblington Stream No.4
DATE	14.5.92	SITE	Wade Court
SORTER	W15	SAMPLE CODE	NRA05 4101

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	None

NET LOSSES 0 NET GAINS 0

NOTES:

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Adur East
DATE	12.3.92	SITE	Wortleford Bridge
SORTER	W14	SAMPLE CODE	NRA05 3001

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Elmidae

NET LOSSES 0 NET GAINS 1

NOTES:

1 Elmis aenea (larva) 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Titchfield Stream
DATE	12.5.92	SITE	Road Bridge
SORTER	W12	SAMPLE CODE	NRA05 4215

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Hydrobiidae 2 Baetidae 3 Hydrophilidae 4 Elmidae

NET LOSSES 0 NET GAINS 4

NOTES:

- 1 Potamopyrgus jenkinsi
- 2 Baetis scambus/fuscatus 1 only
- 3 Helophorus brevipalpis (adult) 1 only
- 4 Elmis aenea (larva) 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Matley Bog
DATE	26.3.92	SITE	Matley Passage
SORTER	W2	SAMPLE CODE	NRA05 4238

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Glossiphoniidae 2 Elmidae 3 Polycentropodidae 4 Beraeidae 5 Leptoceridae

NET LOSSES 0 NET GAINS 5

NOTES:

- 1 Helobdella stagnalis 1 only
- 2 Oulimnius sp. (larva) 1 only
- 3 Polycentropus irroratus, Cyrnus trimaculatus
- 4 Beraeodes minutus
- 5 Mystacides azurea

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Aylesford Stream
DATE	6.3.92	SITE	Swatfield Bridge
SORTER	E8	SAMPLE CODE	NRA05 1102

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Dytiscidae

NET LOSSES 0 NET GAINS 1

NOTES:

1 Potamonectes depressus (adult) 1 only

del c*.* 1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Sissinghurst Stream
DATE	26.3.92	SITE	Sissinghurst Castle Road
SORTER	E11	SAMPLE CODE	NRA05 1071

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	None

NET LOSSES 0 NET GAINS 0

NOTES:

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Great Stour
DATE	19.3.92	SITE	d/s Plucks Gutter
SORTER	E12	SAMPLE CODE	NRA05 1097

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Valvatidae

NET LOSSES 0 NET GAINS 1

NOTES:

1 Valvata piscinalis 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Wailers Haven
DATE	16.6.92	SITE	Boreham Bridge
SORTER	E7	SAMPLE CODE	NRA05 2203

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	1 Aeshnidae

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	None

NET LOSSES 0 NET GAINS 1

NOTES:

1 Aeshna sp., Brachytron pratense
"Nepidae returned to river" written on sample pot. Not found by IFE in vial or sample.

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Brenchley Stream
DATE	1.6.92	SITE	Bennets Farm
SORTER	E10	SAMPLE CODE	NRA05 1063

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Valvatidae

NET LOSSES 0 NET GAINS 1

NOTES:

1 Valvata cristata 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Cuckmere
DATE	16.6.92	SITE	Sheepwash Bridge
SORTER	E3	SAMPLE CODE	NRA05 2216

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Caenidae*	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	2 Glossiphoniidae 3 Caenidae* 4 Haliplidae 5 Hydrophilidae 6 Tipulidae 7 Simuliidae

NET LOSSES 0 NET GAINS 5

NOTES:

- 2 Glossiphonia complanata
- 3 Caenis rivulorum 1 only
- 4 Brychius elevatus (adults)
- 5 Hydraena gracilis, H. riparia, Helophorus brevipalpis (adults)
- 6 Dicranota sp., Limnophila (Eloeophila) sp.
- 7 Simulium ornatum group 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Lesser Teise
DATE	1.6.92	SITE	Spitz Bridge
SORTER	E7	SAMPLE CODE	NRA05 1057

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Notonectidae	2 Gyrinidae

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	3 Valvatidae 4 Simuliidae

NET LOSSES 1 NET GAINS 3

NOTES:

2 Gyrinus sp. (larvae)
3 Valvata crista, V.piscinalis
4 Simulium aureum group (larva + pupa)

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Medway
DATE	18.6.92	SITE	Hartlake Bridge
SORTER	E6	SAMPLE CODE	NRA05 1010

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	1 Aeshnidae

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	None

NET LOSSES 0 NET GAINS 1

NOTES:

1 Aeshna sp. 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Tickerage Stream
DATE	10.7.92	SITE	Great Streele Farm
SORTER	E4	SAMPLE CODE	NRA05 2240

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Limnephilidae

NET LOSSES 0 NET GAINS 1

NOTES:

1 Drusus annulatus

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Uck
DATE	10.7.92	SITE	Isfield Bridge
SORTER	E14	SAMPLE CODE	NRA05 2238

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Hirudidae 2 Calopterygidae 3 Hydrophilidae	4 Psychomyiidae

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	None

NET LOSSES 3 NET GAINS 1

NOTES:

3 Indet Nitidulid (adult) in vial
4 Tinodes waeneri 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Pilhill Brook
DATE	14.7.92	SITE	Longbridge, Andover
SORTER	W18	SAMPLE CODE	NRA05 4W0143

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE .

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Nemouridae	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	None

NET LOSSES NET GAINS

NOTES:

Label on pot and vial says 4143 14.7.92, Dymo label in sample says 4134 14.9.92 The former reference is assumed to be correct.

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Broad Rife
DATE	19.8.92	SITE	Ferry Sluice
SORTER	W17	SAMPLE CODE	NRA05 3W0065

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Haliplidae*	2 Dytiscidae

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	3 Planariidae 4 Physidae 5 Planorbidae 6 Baetidae 7 Haliplidae* 8 Beraeidae

NET LOSSES NET GAINS

NOTES:

- 2 Hygrotus inaequalis (adult)
- 3 Polycelis nigra/tenuis
- 4 Physa fontinalis
- 5 Anisus vortex 1 only
- 6 Centroptilum luteolum, C.pennulatum, Cloeon dipterum
- 7 Haliplus lineatocollis, H.laminatus, H.wehncke (adults)
- 8 Beraeodes minutus 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Avon Water
DATE	2.7.92	SITE	Efford Bridge
SORTER	W15	SAMPLE CODE	NRA05 4W0177

AQC OF BMWP FAMILIES A. IN VIAL

+

B. IN SAMPLE

+

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Gyrinidae 2 Tipulidae

NET LOSSES

0

NET GAINS

2

NOTES:

1 Gyrinus sp. (larva) 1 only
2 Dicranota sp. 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Adur East
DATE	9.7.92	SITE	Mock Bridge
SORTER	W15	SAMPLE CODE	NRA05 3W0003

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	1 Phryganeidae

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	None

NET LOSSES NET GAINS

NOTES:

1 Phryganea bipunctata/grandis

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Titchfield Stream
DATE	23.7.92	SITE	Road Bridge
SORTER	W14	SAMPLE CODE	NRA05 4W0215

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Erpobdellidae 2 Ephemerellidae 3 Elmidae 4 Simuliidae

NET LOSSES NET GAINS

NOTES:

- 1 Erpobdella octoculata 1 only
- 2 Ephemerella ignita 1 only
- 3 Oulimnius tuberculatus (adult) 1 only
- 4 Simulium aureum group 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Test
DATE	10.7.92	SITE	Polhampton
SORTER	W19	SAMPLE CODE	NRA05 4W0131

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Caenidae

NET LOSSES NET GAINS

NOTES:

1 Caenis luctuosa/macrura 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Beaulieu
DATE	11.6.92	SITE	North Gate
SORTER	W18	SAMPLE CODE	NRA05 4W0163

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Leptoceridae

NET LOSSES 0 NET GAINS 1

NOTES:

1 Oecetis sp. (pupa) 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Hamble
DATE	21.7.92	SITE	Maddoxford Farm
SORTER	W9	SAMPLE CODE	NRA05 4W0112

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Lepidostomatidae

NET LOSSES NET GAINS

NOTES:

1 *Lepidostoma hirtum* 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Park Water
DATE	24.6.92	SITE	Landfordwood
SORTER	W16	SAMPLE CODE	NRA05 4W0161

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Sphaeriidae	2 Elmidae

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	3 Planariidae

NET LOSSES 1 NET GAINS 2

NOTES:

2 Elmis aenea (larva)
3 Polycelis nigra/tenuis 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Merston Stream
DATE	2.6.92	SITE	Blackwater
SORTER	W9	SAMPLE CODE	NRA05 SW0278

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	None

NET LOSSES NET GAINS

NOTES:

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Lavant (Hampshire)
DATE	24.7.92	SITE	IBM Havant
SORTER	W1	SAMPLE CODE	NRA05 4W0102

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Dendrocoelidae 2 Planorbidae 3 Asellidae 4 Baetidae

NET LOSSES NET GAINS

NOTES:

- 1 Dendrocoelum lacteum 1 only
- 2 Anisus vortex 1 only
- 3 Asellus aquaticus
- 4 Baetis rhodani 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Monktonmead Brook
DATE	2.6.92	SITE	Pennyfeathers Lane
SORTER	W17	SAMPLE CODE	NRA05 5W0281

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Planorbidae	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	None

NET LOSSES 1 NET GAINS 0

NOTES:

1 Empty shell of terrestrial snail in vial

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Dever
DATE	10.7.92	SITE	Bransbury
SORTER	W18	SAMPLE CODE	NRA05 4W0145

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Hydropsychidae

NET LOSSES NET GAINS

NOTES:

1 Hydropsyche sp. (pupa) 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Boldings Brook
DATE	9.6.92	SITE	A281 Farthings Bridge
SORTER	W18	SAMPLE CODE	NRA05 3W0059

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	None

NET LOSSES 0 NET GAINS 0

NOTES:

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Warblington Stream No2
DATE	24.7.92	SITE	Church Path
SORTER	W16	SAMPLE CODE	NRA05 4W0212

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Tipulidae

NET LOSSES 0 NET GAINS 1

NOTES:

1 Dicranota sp. 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Anton
DATE	14.7.92	SITE	Fullerton
SORTER	W16	SAMPLE CODE	NRA05 4W0142

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	None

NET LOSSES NET GAINS

NOTES:

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Caul Bourne
DATE	2.6.92	SITE	Shalfleet
SORTER	W17	SAMPLE CODE	NRA05 5W0274

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Ancylidae

NET LOSSES 0 NET GAINS 1

NOTES:

1 Ancylus fluviatilis 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Lukely Brook
DATE	2.6.92	SITE	Westminster Lane
SORTER	W17	SAMPLE CODE	NRA05 5W0277

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE \

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Ancylidae 2 Elmidae

NET LOSSES NET GAINS

NOTES:

1 Ancylus fluviatilis 1 only
2 Limnius volckmari (adult) 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Bow Lake
DATE	16.7.92	SITE	Bishopstoke Road
SORTER	W15	SAMPLE CODE	NRA05 4W0129

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Ephemeraeidae	2 Baetidae

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	3 Notonectidae 4 Limnephilidae

NET LOSSES 1 NET GAINS 3

NOTES:

2 Cloeon dipterum
3 Notonecta maculata
4 Limnephilus lunatus 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Kent Rother
DATE	24.8.92	SITE	Blackwall Bridge
SORTER	E3	SAMPLE CODE	NRA05 1E0122

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Piscicolidae 2 Dryopidae

NET LOSSES 0 NET GAINS 2

NOTES:

1 Piscicola geometra
2 Dryops sp. (adult) 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Sussex Rother
DATE	16.7.92	SITE	Trotton Bridge
SORTER	W1	SAMPLE CODE	NRA05 3W0025

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Lymnaeidae 2 Sialidae 3 Beraeidae 4 Tipulidae

NET LOSSES 0 NET GAINS 4

NOTES:

- 1 Lymnaea peregra 1 only
- 2 Sialis lutaria 1 only
- 3 Beraeodes minutus
- 4 Dicranota sp. 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Shuttle
DATE	27.8.92	SITE	Black Prince
SORTER	E2	SAMPLE CODE	NRA05 1E0004

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Planariidae*	2 Valvatidae 3 Physidae

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	4 Planariidae*

NET LOSSES 0 NET GAINS 2

NOTES:

2 Valvata cristata
3 Physa sp. (juvenile)
4 Dugesia lugubris/polychroa

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Test
DATE	19.6.92	SITE	Broadlands
SORTER	W19	SAMPLE CODE	NRA05 4W0139

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	None

NET LOSSES NET GAINS

NOTES:

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Bevern Stream
DATE	25.11.92	SITE	Bevern Bridge
SORTER	E3	SAMPLE CODE	NRA05 2E0233

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Scirtidae	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	2 Dytiscidae

NET LOSSES NET GAINS

NOTES:

1 Cast skin in vial
2 Platambus maculatus (larva) 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	North End Stream
DATE	25.11.92	SITE	North End
SORTER	E12	SAMPLE CODE	NRA05 2E0231

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Oligochaeta*	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	2 Planariidae 3 Oligochaeta* 4 Dytiscidae 5 Hydrophilidae

NET LOSSES 0

NET GAINS 3

NOTES:

2 Polycelis nigra/tenuis 1 only
3 Naididae, Tubificidae
4 Stictotarsus duodecimpustulatus (adult) 1 only
5 Hydraena sp. (adult) 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Rother
DATE	29.9.92	SITE	Shopham Bridge
SORTER	W1	SAMPLE CODE	NRA05 3W0028

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Chironomidae*	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	2 Beraeidae 3 Leptoceridae 4 Tipulidae 5 Chironomidae*

NET LOSSES NET GAINS

NOTES:

- 2 Beraeodes minutus 1 only
- 3 Oecetis testacea/furva 1 only
- 4 Hexatoma sp. 1 only
- 5 Tanypodinae, Chironomini

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Len Tributary
DATE	5.11.92	SITE	d/s Leeds STW
SORTER	E2	SAMPLE CODE	NRA05 1E0086

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Sericostomatidae 2 Chironomidae

NET LOSSES NET GAINS

NOTES:

1 Sericostoma personatum 1 only
2 Orthoclaadiinae 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Ridgewood Stream
DATE	25.11.92	SITE	A26 Bridge
SORTER	E4	SAMPLE CODE	NRA05 2E0239

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	1 Lymnaeidae 2 Piscicolidae

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	3 Valvatidae 4 Coenagriidae 5 Polycentropodidae

NET LOSSES NET GAINS

NOTES:

- 1 Lymnaea peregra
- 2 Piscicola geometra
- 3 Valvata cristata 1 only
- 4 Ischnura elegans 1 only
- 5 Cyrrnus trimaculatus 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Limden
DATE	9.9.92	SITE	Etchingham
SORTER	E11	SAMPLE CODE	NRA05 1E0156

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	1 Erpobdellidae 2 Sialidae

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	3 Haliplidae 4 Leptoceridae

NET LOSSES 0 NET GAINS 4

NOTES:

- 1 Trocheta sp. (juvenile)
- 2 Sialis lutaria
- 3 Brychius elevatus 1 only
- 4 Athripsodes aterrimus

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Loxwood Stream
DATE	30.9.92	SITE	Drungewick
SORTER	W17	SAMPLE CODE	NRA05 3W0055

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Nemouridae	2 Taeniopterygidae

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	3 Valvatidae 4 Planorbidae

NET LOSSES 1 NET GAINS 3

NOTES:

2 Taeniopteryx nebulosa
3 Valvata cristata 1 only
4 Gyraulus albus 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Bull
DATE	6.11.92	SITE	Lea bridge
SORTER	E1	SAMPLE CODE	NRA05 2E0219

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	Lid dislodged from vial in transit. Contents dispersed in sample. Identification check not applicable.	N/a

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample) 1 Tipulidae	2 Ancylidae 3 Asellidae 4 Psychomyiidae

NET LOSSES 1

NET GAINS 3

NOTES:

- 1 Bibio sp. present in sample
- 2 Ancylus fluviatilis 1 only
- 3 Asellus meridianus 1 only
- 4 Lype sp.

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Tidebrook
DATE	19.11.92	SITE	Buttons
SORTER	E8	SAMPLE CODE	NRA05 1E0125

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Dytiscidae	2 Hydrophilidae

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	3 Goeridae

NET LOSSES NET GAINS

NOTES:

2 Indet Hydrophilid (larva) in vial, Hydraena gracilis, H.riparia (adults) in sample.
3 Silo pallipes

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Teise
DATE	19.11.92	SITE	Lamberhurst
SORTER	E1	SAMPLE CODE	NRA05 1E0050

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	None

NET LOSSES NET GAINS

NOTES:

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Eridge Stream
DATE	10.11.92	SITE	Forge Farm
SORTER	E4	SAMPLE CODE	NRA05 1E0020

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Planorbidae 2 Psychomyiidae 3 Limnephilidae

NET LOSSES NET GAINS

NOTES:

1 Anisus vortex 1 only
2 Lype sp. 1 only
3 Indet Limnephilid (juvenile) 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Cradlebridge Sewer
DATE	29.10.92	SITE	B2080 Redhill Bridge
SORTER	E11	SAMPLE CODE	NRA05 1E0148

AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	1 Sphaeriidae 2 Piscicolidae 3 Gyrinidae

NET LOSSES 0 NET GAINS 3

NOTES:

- 1 Pisidium sp.
- 2 Piscicola geometra
- 3 Gyrinus marinus (adult) 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Abbey Petty Sewer
DATE	9.9.92	SITE	Russet Farm
SORTER	E14	SAMPLE CODE	NRA05 1E0129

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Ephemerellidae	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	2 Nepidae 3 Gyrinidae

NET LOSSES NET GAINS

NOTES:

2 Nepa cinerea 1 only
3 Gyrinus sp. (larva) 1 only

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	East Stour
DATE	6.10.92	SITE	Grove Bridge, Sellinge
SORTER	E8	SAMPLE CODE	NRA05 1E0100

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	None

NET LOSSES NET GAINS

NOTES:

1992 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES

REGION	Southern	RIVER	Great Stour
DATE	6.10.92	SITE	Horton
SORTER	E11	SAMPLE CODE	NRA05 1E0093

AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE

A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial is supplied with sample)	None

NET LOSSES NET GAINS

NOTES:

