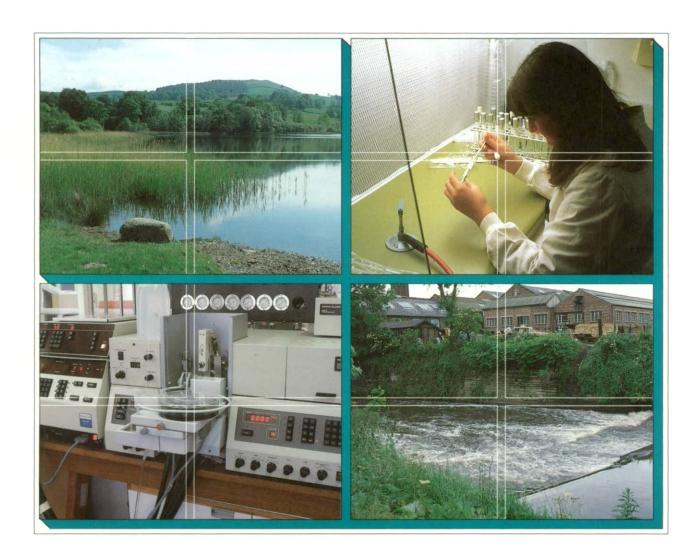


# An audit of performance in the processing of macro-invertebrate samples in 1991. NRA Severn-Trent Region

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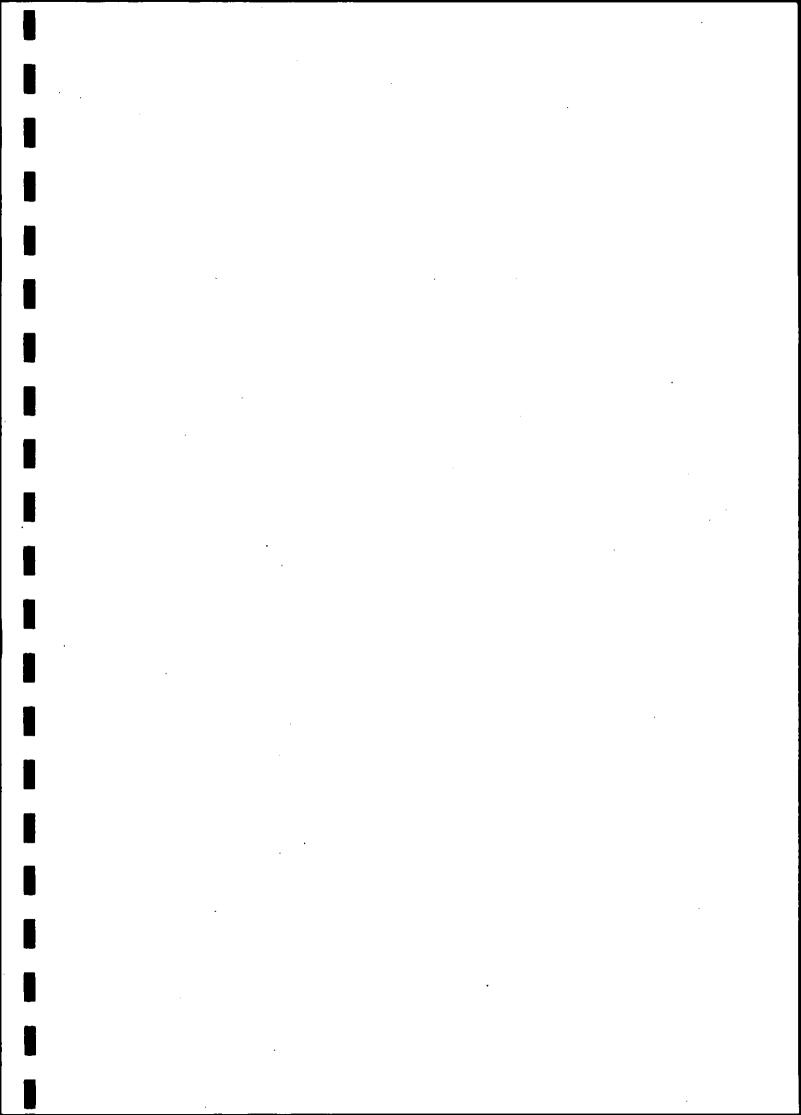
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#### 1. INTRODUCTION

In 1991 the sampling of aquatic macro-invertebrates for the biological assessment of river quality continued throughout the United Kingdom. In England and Wales this task was undertaken by the National Rivers Authority (NRA), the River Purification Boards (RPBs) sampled in Scotland and the Department of Economic Development (DED) undertook the work in Northern Ireland.

The majority of sites were sampled in spring, summer and autumn. Standard collection procedures, as used in the 1990 River Quality Survey, were retained 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). For a variety of reasons, a few locations were sampled in just one or two seasons.

Samples were sorted by NRA, RPB and DED 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.

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. As in 1990, the IFE was contracted to undertake an audit of the sample sorting and identification performance of each NRA region, several RPBs and the DED. This report presents the results of 60 samples audited for Severn-Trent Region of the NRA. The IFE was not required to perform any statistical analyses nor interpretation of the results of the audit.

#### 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 DED 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 molluse shells and posterior ends of "living" specimens were to be excluded from the listing of families present. 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 Mike Furse for help and advice, to Kay Symes and Angela Matthews for assistance with cataloguing and storage of samples and to Valerie Palmer and Diana Morton for typing the manuscript.

RECION	RIVER	
DATE	SITE	·
SORTER	SAMPLE CODE	
AQC OF BMWP FAMILIES A. IN	N VIAL B. IN S	SAMPLE
	LOSSES	CAINS
V VIVI	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 <u>SAMPLE</u>	BMUP 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 supplied with sample)	
•.	NET LOSSES	NET CAINS
NOTES		
	4	

TABLE 2. The 19 spring samples audited for Severn-Trent Region, with sample sorter codes and numbers of taxa 'lost', 'gained' and 'omitted'

River	Site	Sorter	Losses	Gains	Omissions
*Cauldwell Brook	Confluence	4.3	-	-	-
Perry	Rednall	1.3	0	2	0
Hadley Brook	Chadderley Corbet WRW	1.1	1	1	0
Cound	Condover	1.1	2	2	0
Stoulton Brook	Hawbridge	2.4	0	6	1
Cain Brook	Cain Bridge	2.3	0	2	0
Isbourne	Greet	2.4	0	3	0
Leam	Offchurch	2.3	0	0	0
Staunton Harold Brook	Reservoir inlet	4.3	0	0	0
Trannon	Trefeglwys	1.3	1	0	0
Leadon	Uplands Bridge	2.1	0	2	0
Leadon Ross Road Bridge		2.1	0	1	0
Trent D/s Knypersley Res		3.3	1	4	0
Peakshole Water	Норе	4.1	0	3	0
Dove	Hartington	3.3	1	3	0
Eggington Brook	Eggington	4.2	1	0	2
Churnet	Churnet Mouth	3.1	0	6	1
Churnet	Abbey Green Road	3.1	0	6	0
Blythe	Temple Balsall	3.4	0	1	2
Trent	Shardlow	4.2	0	1	0

<sup>\*</sup> indicates no data sheet available

TABLE 3. The 21 summer samples audited for Severn-Trent Region, with sample sorter codes and numbers of taxa 'lost', 'gained' and 'omitted'

River	Site	Sorter	Losses	Gains	Omissions
Milton Brook	Meadow Lane	4.3	0	0	0
Trent	Willington	4.3	1	2	0
Amber	Amber Mill	4.1	0	2	0
Rothley Brook	Anstey	4.2	1	2	0
Ecclesbourne	Bateman Bridge	` 4.1	1	2	0
Broughton Astley Brook	U/s R.Soar	4.2	1	2	0
Bradgate Brook	Newtown Linford	4.3	0	2	0
Trent	Colwich	3.1	1	4	0
Sow	Eccleshall	3.3	0	1	0
Churnet	Cheddleton Station	3.1	0	1	0
Afon Trannon	U/s Colwyn Brook	1.1	. 1	0	0
Teme	A456 Bridge	1.5	3	1	0
Whiston Brook	Mitton Manor	3.3	0	1	0
Henmore Brook	Clifton	3.1	0	0	0
Colliers Brook	Alvington	2.3	0	1	0
Leam	Hunningham Bridge	2.4	0	2	0
Onny	Bromfield	1.3	0	1	1
Onny	Eaton	1.1	0	1	2
Glynch Brook	U/s Pitts Mill WRW	2.4	2	2.	1
Blackpool Brook	Barracks Bridge	2.3	1	1	2
Stour	Clifford Chambers	2.4	1	3	0

TABLE 4. The 20 autumn samples audited for Severn-Trent Region, with sample sorter codes and numbers of taxa 'lost', 'gained' and 'omitted'

River	Site	Sorter	Losses	Gains	Omissions
Teme	U/s Ffrwdwen Brook	1.3	0	3	1
Rea Brook	Lea	1.1	0	2	0
Onny	Wistanstow	1.5	2	4	0
Blithe	Newton Bridge	3.5	0	3	0
Onny	Eaton	1.1	1	2	0 .
Byne Brook	Harton	1.5	0	1	0
Cole	Lowbrook Bridge	3.1	0	4	3
Black Brook	Fazeley	3.1	0	0	0
Cuttle Brook	Temple Balsall	3.5	0	3	. 0
Quinney	U/s Church Stretton WRW	1.3	0	4	1
Itchen	A425 Thorpe Bridge	2.4	0	0	0
Piddle Brook	Seaford	2.3	0	1	0
Bushley Brook	Queenhill	2.3	0	3	0
Stour	Tidmington	2.4	0	0	0
Ryton	Scrooby	4.1	0	·5	0
Bradgate Brook	Newtown Linford	4.3	. 0	0	0
Ecclesbourne	Cowers Lane	4.1	1	1	0
Gaddesby Brook	U/s Marefield Brook	4.2	0	0	0
Sence	U/s Little Stretton	4.2	0	3	0
Markfield Brook	U/s Rothley Brook	4.3	0	0	0

#### APPENDIX

Results of individual sample audits

R	EGION Severn-Trent	RIVER	Cauldwell Brook
,	DATE 6.3.91	SITE	Confluence
S	ORTER 4.3	SAMPLE CODE	NRA04 5414
A	QC OF BMWP FAMILIES A. IN	V VIAL X B.	IN SAMPLE X
		LOSSES	GAINS
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		
Ī			
В	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 complet when no vial supplied with sample)	
ļ			
		NET LOSSES	NET GAINS
Ŋ	OTES Data sheet unavailab	le - sample not checked	zi
			·

RE	GION	Severn-Trent	RIVER	Perry
	DATE	8.4.91	SITE	Rednall
SO	RTER	B1.3	SAMPLE CODE	10630
AQ	C OF	BMWP FAMILIES A. IN	V VIAL + B. 1	IN SAMPLE +
			LOSSES	GAINS
A		VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) B o ii) B	rences between: MWP families listed n sample data sheet and MWP families found n VIAL by IFE	None	None
В		SAMPLE	BMWP FAMILIES NOT FOUND BY 1FE	ADDITIONAL FAMILIES FOUND BY IFE
	i) B o ii) B	rences between: MWP families listed n sample data sheet and MWP families found n SAMPLE by IFE	(This box only complete when no vial supplied with sample)	
			NET LOSSES 0	NET GAINS 2
NO	TES	1 Bathyomphalus cont 2 Orectochilus villo		

		• •	
F	Severn-Trent	RIVER	ladley Brook
	DATE 10.4.91	SITE 1	D/s Chadderley Corbet WRW
S	SORTER 1.1	SAMPLE CODE	10644
P	AQC OF BMWP FAMILIES A. 11	N VIAL + B. I	N SAMPLE +
		LOSSES	GAINS
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	1 Scirtidae	None
	in VIAL by IFE		
В	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 complete when no vial supplied with sample)	d 2 Simuliidae
1	NOTES  1 Cast larval skin 2 Simulium ornatum g	NET LOSSES 1	NET GAINS 1
•			

F	REGION Severn-Trent	RIVER	ound
	DATE 16.4.91	SITE	ondover
5	SORTER 1.1	SAMPLE CODE 1	0664
£	AQC OF BMWP FAMILIES A. II	N VIAL B. IN	SAMPLE +
		LOSSES	GAINS
A	<u>VIAL</u>	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	1 Limnephilidae 2 Baetidae	None
	in VIAL by IFE	·	
В	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 supplied with sample)	3 Hydrobiidae 4 Haliplidae
			·
		NET LOSSES 2	NET GAINS 2
ì	NOTES  3 Potamopyrgus jenki 4 Haliplus sp. (larv		
			•

F	REGION Severn-Trent		RIVER	lton Brook
	DATE 29.4.91		SITE	ridge
9	SORTER B2.4	SAMPI	E CODE None	given
A	AQC OF BMWP FAMILIES	A. IN VIAL +	B. IN SAI	MPLE +
		LOSSES		GAINS
A	<u>VIAL</u>	BMWP FAMILIE FOUND BY 1	T T	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between:  i) BMWP families li  on sample data s  and  ii) BMWP families fo	stéd   1 Sphaeriidae Sheet	k	None
	in VIAL by IFE	buna		
		n ·	· · · · · · · · · · · · · · · · · · ·	
В	<u>SAMPLE</u>	BMWP FAMILIE FOUND BY I	l.	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between:  i) BMWP families li  on sample data s  and  ii) BMWP families fo  in SAMPLE by IFF	sted when no vial sheet with samp	upplied	2 Planorbidae 3 Ancylidae 4 Sphaeriidae* 5 Piscicolidae 6 Psychomyiidae 7 Hydroptilidae 8 Simuliidae
		,		
		NET LO	SSES 0	NET GAINS 6
ŀ	5 Piscicola g 6 Lype sp. 1 7 Hydroptila	us contortus viatilis 1 only cometra 1 only only	1 only	

I	REGION Severn-Trent	RIVER	Cain Brook
	DATE 23.4.91	SITE	Cain Bridge
5	SORTER B2.3	SAMPLE CODE	None given
A	AQC OF BMWP FAMILIES A. IN	N VIAL + B. I	N SAMPLE +
		LOSSES	GAINS
A	<u>VIAL</u>	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
В	<u>SAMPLE</u>	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 complete when no vial supplied with sample)	1 Asellidae 2 Tipulidae
	·	NET LOSSES 0	NET GAINS 2
1	NOTES  1 Asellus aquaticus 2 Dicranota sp. 1 on	aly	

F	REGION Severn-Trent	RIVER	Isbourne	
	DATE 1.5.91	SITE	Greet	
5	SORTER B2.4	SAMPLE CODE	None given	
į	AQC OF BMWP FAMILIES A. II	N VIAL + B. I	IN SAMPLE +	
		LOSSES	GAINS	
Α	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	
•	<del></del>			
В	<u>SAMPLE</u>	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 complete when no vial supplied with sample)	1 Sphaeriidae 2 Erpobdellidae 3 Hydroptilidae	
		NET LOSSES 0	NET GAINS 3	
1	1 Pisidium sp. 1 onl 2 Erpobdella octocul 3 Hydroptila sp.			
	Posterior end of Rhyacophilid found in sample			

R	EGION Severn-Trent	RIVER	Leam
		[ [	Deam .
	DATE 7.5.91	SITE	Offchurch
S	ORTER B2.3	SAMPLE CODE	None given
A	QC OF BMWP FAMILIES A. II	N VIAL + B.	IN SAMPLE +
		LOSSES	GAINS
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
•			
В	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 complet when no vial supplied with sample)	
		NET LOSSES	0 NET GAINS 0
Ŋ	NOTES		

REGION Severn-Trent	RIVER	unton Harold Brook		
DATE 11.3.91	SITE	et to Reservoir		
SORTER 4.3	SAMPLE CODE 421	10		
AQC OF BMWP FAMILIES A. IN	VIAL + B. IN S	SAMPLE +		
	LOSSES	GAINS		
A VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY 1FE		
Differences between:  i) BMWP families listed  on sample data sheet  and  ii) BMWP families found  in VIAL by IFE	None	None		
B <u>SAMPLE</u>	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 supplied with sample)	None		
NET LOSSES 0 NET GAINS 0				
NOTES				

	<u> </u>	<u> </u>		
1	REGION Severn-Trent	RIVER	rannon	
	DATE 15.3.91	SITE T	refeglwys	
:	SORTER 1.3	SAMPLE CODE 1	0570	
AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +		SAMPLE +		
		LOSSES	GAINS	
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 Hydrophilidae	None	
В	<u>SAMPLE</u>	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 supplied with sample)	None	
NET LOSSES 1 NET GAINS 0				
1	NOTES			

F	REGION	Severn-Trent	RIVER	eadon	
	DATE	8.5.91	SITE	Jplands Bridge	
S	ORTER	B2.1	SAMPLE CODE N	lone given	
AQC OF BMWP FAMILIES A. IN		BMWP FAMILIES A. II	N VIAL + B. IN	N SAMPLE +	
			LOSSES	GAINS	
Α		<u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	i) B o ii) B	rences between: MWP families listed n sample data sheet and MWP families found n VIAL by IFE	None ·	None	
_					
В		SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	i) B o ii) B	rences between: MWP families listed n sample data sheet and MWP families found n SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Hydropsychidae 2 Hydroptilidae	
	NET LOSSES 0 NET GAINS 2				
NOTES  1 Hydropsyche siltalai 1 only 2 Hydroptila sp. 1 only					

R	REGION Severn-Trent	RIVER	adon
	DATE 8.5.91	SITE	ss Road Bridge
S	SORTER B2.1	SAMPLE CODE No	ne given
AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +			
		LOSSES	CAINS
Λ	<u>VIAL</u>	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
_			
В	. <u>SAMPLE</u>	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 supplied with sample)	1 Glossiphoniidae
NET LOSSES 0 NET GAINS 1  NOTES 1 Helobdella stagnalis 1 only			

1	REGION Severn-Trent	RIVER	ent		
	DATE 22.4.91	SITE D/s	Knypersley Res		
;	SORTER B3.3	SAMPLE CODE NRA	04 7201		
1	AQC OF BMWP FAMILIES A. I.	N VIAL B. IN S	SAMPLE +		
		LOSSES	GAINS		
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 Dryopidae	2 Scirtidae		
	***************************************	M			
В	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 supplied with sample)	3 Erpobdellidae 4 Caenidae 5 Psychomyiidae		
	NET LOSSES 1 NET GAINS 4				
]	NOTES  2 Elodes sp. (larvae) 3 Erpobdella octoculata 4 Caenis luctuosa/macrura, C.horaria 5 Lype sp. 1 only				

F	REGION Severn-Trent	RIVER	Peakshole Water
	DATE 8.5.91	SITE	· · · · · · · · · · · · · · · · · · ·
	0.3.31	l I	Норе
5	SORTER 4.1	SAMPLE CODE	NRAO4 5012
I	AQC OF BMWP FAMILIES A. II	N VIAL + B.	IN SAMPLE +
		LOSSES	GAINS
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	None	None
	in VIAL by IFE		
В	<u>SAMPLE</u>	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 complete when no vial supplied with sample)	
NET LOSSES 0 NET CAINS 3			
	NOTES  1 Ephemerella ignita 1 only 2 Limnius volckmari (larvae) 3 Simulium reptans (larvae), S.ornatum group (pupa)		

REGION Severn-Trent	RIVER D	ove	
DATE 8.4.91	SITE	artington	
SORTER 3.3	SAMPLE CODE N	RA04 7803	
AQC OF BMWP FAMILIES A. II	N VIAL #	SAMPLE +	
	LOSSES	GAINS	
A VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
Differences between:  i) BMWP families listed  on sample data sheet  and	1 Leptoceridae	2 Sericostomatidae	
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	(This box only completed when no vial supplied with sample)	3 Ephemerellidae 4 Caenidae	
in SAMPLE by IFE			
	· · · · · · · · · · · · · · · · · · ·		
NET LOSSES 1 NET GAINS 3			
NOTES  2 Sericostoma person 3 Ephemerella ignita 4 Caenis rivulorum	a 1 only		

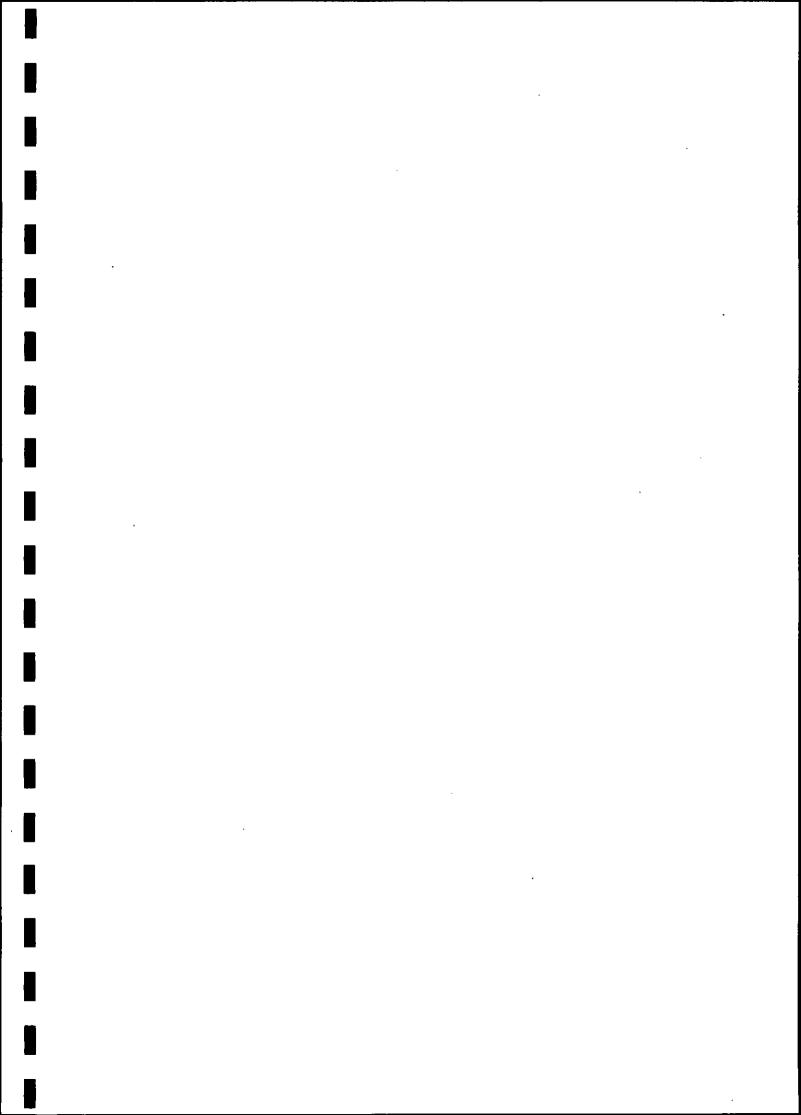
		1	
]	REGION Severn-Trent	RIVER	gington Brook
	DATE 11.3.91	SITE Egg	gington
;	SORTER 4.2	SAMPLE CODE NR	A04 4016
AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +			SAMPLE +
		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between:  i) BMWP families listed  on sample data sheet  and  ii) BMWP families found  in VIAL by IFE	1 Gammaridae* 2 Leptoceridae* 3 Goeridae	None
В	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 supplied with sample)	4 Gammaridae* 5 Leptoceridae*
	•	NET LOSSES 1	NET GAINS 0
1	NOTES		

R	EGION Severn-Trent	RIVER	Churnet	
	DATE 15.4.91	SITE	Churnet Mouth	
S	ORTER B3.1	SAMPLE CODE	NRAO4 7619	
A	QC OF BMWP FAMILIES A. IN	N VIAL B. II	N SAMPLE +	
		LOSSES	GAINS	
A	<u>VIAL</u>	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 Glossiphoniidae*	2 Elmidae	
į				
В	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 complete when no vial supplied with sample)	d 3 Planorbidae 4 Glossiphoniidae* 5 Heptageniidae 6 Perlodidae 7 Leptoceridae 8 Simuliidae	
ļ				
NET LOSSES 0 NET CAINS 6				
	NOTES  2 Limnius volckmari (larvae) 3 Gyraulus albus 1 only 4 Glossiphonia complanata 5 Heptagenia sulphurea 1 only 6 Isoperla grammatica 1 only 7 Athripsodes sp. 1 only 8 Simulium ornatum group (larvae + pupae)			

		•			
R	REGION Severn-Trent	RIVER	nurnet		
	DATE 23.4.91	SITE	obey Green Road		
S	SORTER 3.1 SAMPLE CODE NRA04 7606				
AQC OF BMWP FAMILIES A. IN VIAL # B. IN SAMPLE #			SAMPLE +		
		LOSSES	GAINS		
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		
١					
В	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 supplied with sample)	1 Ancylidae 2 Sphaeriidae 3 Nemouridae 4 Chloroperlidae 5 Elmidae 6 Polycentropodidae		
NET LOSSES 0 NET GAINS 6					
NOTES  1 Ancylus fluviatilis 2 Pisidium sp. 1 only 3 Amphinemura sulcicollis 4 Chloroperla torrentium 5 Elmis aenea (larva) 1 only 6 Polycentropus flavomaculatus			·		

F	REGION Severn-Trent	RIVER	lythe
	DATE 3.4.91	SITE	emple Balsall
S	SORTER B3.4	SAMPLE CODE N	RA04 8403
AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +			
	·	LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between:  i) BMWP families limented on sample data stand  and  ii) BMWP families for in VIAL by IFE	neet Z Limnephilidae*	None
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between:  i) BMWP families limens on sample data simple data simple data simple families for in SAMPLE by IFE	neet with sample)	3 Hydrobiidae* 4 Haliplidae 5 Limnephilidae*
			·
NET LOSSES 0 NET GAINS 1			
NOTES  1,3 Potamopyrgus jenkinsi (empty shell in vial) 4 Haliplus sp. (larva) 1 only 5 Halesus radiatus			

P	Severn-Trent	RIVER	ent	
	DATE 4.3.91	SITE	ardlow	
S	SORTER 4.2	SAMPLE CODE NR	Λ04 4003	
AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +			SAMPLE +	
<u> </u>		LOSSES	GAINS	
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	
В	CAMBI E	DMID PANTITES NOT	ADDITIONAL PANTILES	
Ľ	<u>SAMPLE</u>	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 supplied with sample)	1 Planariidae	
NET LOSSES 0 NET GAINS 1				
NOTES  1 Dugesia tigrina 1 only  Gammarus tigrinus present in sample				



REGIO	ON Severn-Trent	RIVER	Milton Brook		
S∜ <b>DA</b> '	TE 19.6.91	SITE	Meadow Lane		
SORT	ER 4.3	SAMPLE CODE	NRA04 4021		
AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +					
		LOSSES	GAINS		
A	<u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
	fferences between: ) BMWP families listed on sample data sheet and	None .	None		
ii	) BMWP families found in VIAL by IFE				
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
i	fferences between: ) BMWP families listed on sample data sheet and ) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None		
NET LOSSES 0 NET GAINS 0					
NOTE	S		·		
•					

RE	Severn-Trent	RIVER T	rent		
37	DATE 11.6.91	SITE	illington		
so	ORTER 4.3	SAMPLE CODE N	RA04 4001		
AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE +					
	•	LOSSES	GAINS		
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
	Differences between:  i) BMWP families listed  on sample data sheet  and	1 Caenidae	2 Glossiphoniidae 3 Erpobdellidae		
	ii) BMWP families found in VIAL by IFE				
В	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 supplied with sample)	None		
NET LOSSES 1 NET GAINS 2					
NOTES  1 Cast skin in vial 2 Glossiphonia complanata 3 Erpobdella octoculata					

ום	EGION SOVERNITHE TO THE PARTY OF THE PARTY O	DIVED				
K	Severn-Trent	RIVER A	mber			
<u>,</u> ;;	TDATE 11.6.91	SITE	mber Mill			
S	ORTER 4.1	SAMPLE CODE N	RA04 5202			
AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +						
		LOSSES	GAINS			
A	<u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE			
	Differences between: i) BMWP families listed on sample data sheet and	None	None			
	ii) BMWP families found in VIAL by IFE					
В	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 supplied with sample)	1 Rhyacophilidae 2 Goeridae			
NET LOSSES 0 NET GAINS 2						
NOTES  1 Rhyacophila dorsalis (larva + pupa) 2 Indet Goerid pupa 1 only						

F	REGION Severn-Trent	RIVER	othley_Brook			
	16.7.91	SITE A	nstey			
5	SORTER 4.2 SAMPLE CODE NRA04 4402					
I	AQC OF BMWP FAMILIES A. IN VIAL #					
	,	LOSSES	GAINS			
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE			
	Differences between:  i) BMWP families listed  on sample data sheet	1 Physidae	2 Lymnaeidae			
	and ii) BMWP families found in VIAL by IFE	,··	·			
В	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 supplied with sample)	3 Caenidae			
•		NET LOSSES 1	NET GAINS 2			
	· -					
ľ	NOTES  1 Small fragment of unidentifiable snail found in vial 2 Lymnaea peregra 3 Caenis luctuosa/macrura 1 only					

F	REGION Severn-Trent	RIVER	cclesbourne			
· •.	8.7.91	SITE Ba	ateman Bridge			
5	SORTER 4.1	SAMPLE CODE NE	RA04 5018			
F	AQC OF BMWP FAMILIES A. IN	VIAL B. IN	SAMPLE +			
	·	LOSSES	GAINS			
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE			
	Differences between:  i) BMWP families listed  on sample data sheet  and	1 Lymnaeidae	2 Glossiphoniidae			
	ii) BMWP families found in VIAL by IFE	."				
В	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 supplied with sample)	3 Tipulidae			
	NET LOSSES 1 NET GAINS 2					
ľ	NOTES  2 Helobdella stagna 3 Tipula sp., Dicra					

REGION Severn-Trent	RIVER B	roughton Astley Brook			
30.6.91	SITE	/s R.Soar			
SORTER 4.2	SAMPLE CODE N	RA04 4117			
AQC OF BMWP FAMILIES A	IN VIAL B. IN	SAMPLE +			
	LOSSES	GAINS			
A VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE			
Differences between:  i) BMWP families listed on sample data sheet	<b>II</b>	2 Ancylidae			
and ii) BMWP families found in VIAL by IFE	."				
<u>SAMPLE</u>	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		3 Dytiscidaé			
NOTES  1 Succinea sp. in vial 2 Ancylus fluviatilis					
3 Agabus sp. (la					

F	REGION	Severn-Trent	RIVER	Bradgate Brook		
٠.	DATE	2.7.91	SITE	Newtown Linford		
S	ORTER	4.3	SAMPLE CODE	NRA04 4142		
F	AQC OF	BMWP FAMILIES A. IN	V VIAL + B. IN	N SAMPLE +		
			LOSSES	GAINS		
A		VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
	i) B	rences between: MWP families listed n sample data sheet and	None .	1 Leptophlebiidae 2 Hydropsychidae		
	-	MWP families found n VIAL by IFE	."			
В		SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
	i) B o ii) B	rences between: MWP families listed n sample data sheet and MWP families found n SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None		
		-				
	NET LOSSES 0 NET GAINS 2					
NOTES  1 Habrophlebia fusca 2 Hydropsyche siltalai						

REGION	Severn-Trent	RIVER	rent	
∴ DATE	27.6.91	SITE	Colwich	
SORTER	3.1	SAMPLE CODE	IRA04 7301	
AQC OF	BMWP FAMILIES A. IN	V VIAL B. IN	SAMPLE +	
		LOSSES	GAINS	
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
i) B	rences between: MWP families listed n sample data sheet and	1 Piscicolidae	None	
	MWP families found n VIAL by IFE	,		
-			<del></del>	
B	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
i) B o ii) B	rences between:  MWP families listed  n sample data sheet  and  MWP families found  n SAMPLE by IFE	(This box only completed when no vial supplied with sample)	2 Dendrocoelidae 3 Valvatidae 4 Ephemerellidae 5 Leptoceridae	
NET LOSSES 1 NET GAINS 4				
NOTES	1 Hemiclepsis margi 2 Dendrocoelum lact 3 Valvata piscinali 4 Ephemerella ignit 5 Ceraclea sp. (pup	eum 1 only s 1 only a 1 only		

R	EGION Severn-Trent	RIVER	Sow			
,	DATE 1.7.91	SITE	Eccleshall			
S	SORTER 3.3 SAMPLE CODE NRA04 7102					
AQC OF BMWP FAMILIES A. IN VIAL # B. IN SAMPLE #						
· · · · ·		LOSSES	GAINS			
A	<u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE			
	Differences between:  i) BMWP families listed  on sample data sheet  and	None	None			
	ii) BMWP families found in VIAL by IFE	·				
В	<u>SAMPLE</u>	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 supplied with sample)	1 Elmidae			
ŀ	OTES 1 Elmis aenea (adul	NET LOSSES 0	NET GAINS 1			

F	REGION Severn-Trent	RIVER	Churnet			
	13.6.91	SITE	Cheddleton Station			
5	SORTER 3.1	SAMPLE CODE	NRA04 7612			
AQC OF BMWP FAMILIES A. IN VIAL #						
		LOSSES	GAINS			
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE			
	Differences between:  i) BMWP families lis  on sample data sh  and  ii) BMWP families fou  in VIAL by IFE	eet	None			
·						
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE			
	Differences between:  i) BMWP families lis  on sample data sh  and  ii) BMWP families fou  in SAMPLE by IFE	eet with sample)	d 1 Hydrobiidäe			
N	NOTES 1 Potamopyrgus jenkinsi 1 only					

F	REGION Severn-Trent	RIVER	fon Trannon
٠,	25.7.91	SITE	/s Colwyn Brook
S	SORTER 1.1	SAMPLE CODE 1	1123
AQC OF BMWP FAMILIES A. IN VIAL # B. IN SAMPLE #			
		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between:  i) BMWP families listed  on sample data sheet	1 Corophiidae	None .
	and ii) BMWP families found in VIAL by IFE		
В	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 supplied with sample)	None *
		-	
		NET LOSSES 1	NET GAINS 0
N	OTES Grid Reference shou	ld read SO 009 911	
	·		

R	EGION	Severn-Trent	RIVER	Teme		
143	DATE	30.7.91	SITE	A456		
. S	ORTER	1.5	SAMPLE CODE	11153		
A	QC OF	BMWP FAMILIES A. IN	N VIAL + B. II	N SAMPLE +		
			LOSSES	GAINS		
A		VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
	i) Bi	rences between: MWP families listed n sample data sheet and MWP families found	1 Planariidae 2 Dendrocoelidae 3 Sericostomatidae	4 Valvatidae		
	•	n VIAL by IFE				
В	<u>,                                      </u>	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
	i) B	rences between: MWP families listed n sample data sheet and	(This box only complete when no vial supplied with sample)	None -		
	•	MWP families found n SAMPLE by IFE				
Ļ	NET LOSSES 3 NET GAINS 1					
N	NOTES 4 Valvata cristata 1 only					

RE	GION Severn-Trent	RIVER	Miston Brook	
36	DATE 26.6.91	SITE	Mitton Manor	
so	RTER 3.3	SAMPLE CODE	NRAO4 7082	
AQ	C OF BMWP FAMILIES A. II	N VIAL + B. IN	SAMPLE +	
		LOSSES	GAINS	
A	<u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	Differences between:  i) BMWP families listed  on sample data sheet  and	None	None	
	ii) BMWP families found in VIAL by IFE	,··		
В	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 supplied with sample)	1 Planorbidae	
NET LOSSES 0 NET GAINS 1  NOTES 1 Armiger crista, Hippeutis complanatus				

F	Severn-Trent	RIVER H	lenmore Brook	
ζ.	22.7.91	SITE	lifton	
SORTER 3.1 SAMPLE CODE NRA04 7826				
AQC OF BMWP FAMILIES A. IN VIAL #				
		LOSSES	GAINS	
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	Differences between:  i) BMWP families listed  on sample data sheet  and	None	None	
	ii) BMWP families found in VIAL by IFE			
В	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 supplied with sample)	None	
,	NOTIFIC .	NET LOSSES 0	NET GAINS 0	
ì	ROTES			

RI	EGION	Severn-Trent	RIVER	Colliers Brook		
. <del>.</del>	DATE	3.7.91	SITE	Alvington		
sc	ORTER	2.3	SAMPLE CODE	Unknown		
AC	QC OF 1	MWP FAMILIES A. IN	V VIAL . B. IN	SAMPLE +		
			LOSSES	GAINS		
A		<u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
	i) BN	ences between: WP families listed a sample data sheet	None	1 Lepidostomatidae		
		and WP families found VIAL by IFE		,		
В		SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
1	i) BN or ii) BN	Tences between:  WP families listed  a sample data sheet  and  WP families found  SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None		
	· · · · · · · · · · · · · · · · · · ·					
	NET LOSSES 0 NET GAINS 1					
NOTES  1 Lasiocephala basalis 1 only						
				·		

		·	
R	REGION Severn-Trent	RIVER	eam
	DATE 22.7.91	SITE H	unningham Bridge
S	SORTER 2.4	SAMPLE CODE U	nknown
Δ	AQC OF BMWP FAMILIES A. IN	N VIAL B. IN S	SAMPLE +
	•	LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and	None	1 Chironomidae
	ii) BMWP families found in VIAL by IFE		
В	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 supplied with sample)	2 Valvatidaė
NET LOSSES 0 NET GAINS 2			
N	NOTES  1 Tanypodinae, Orth 2 Valvata piscinali		

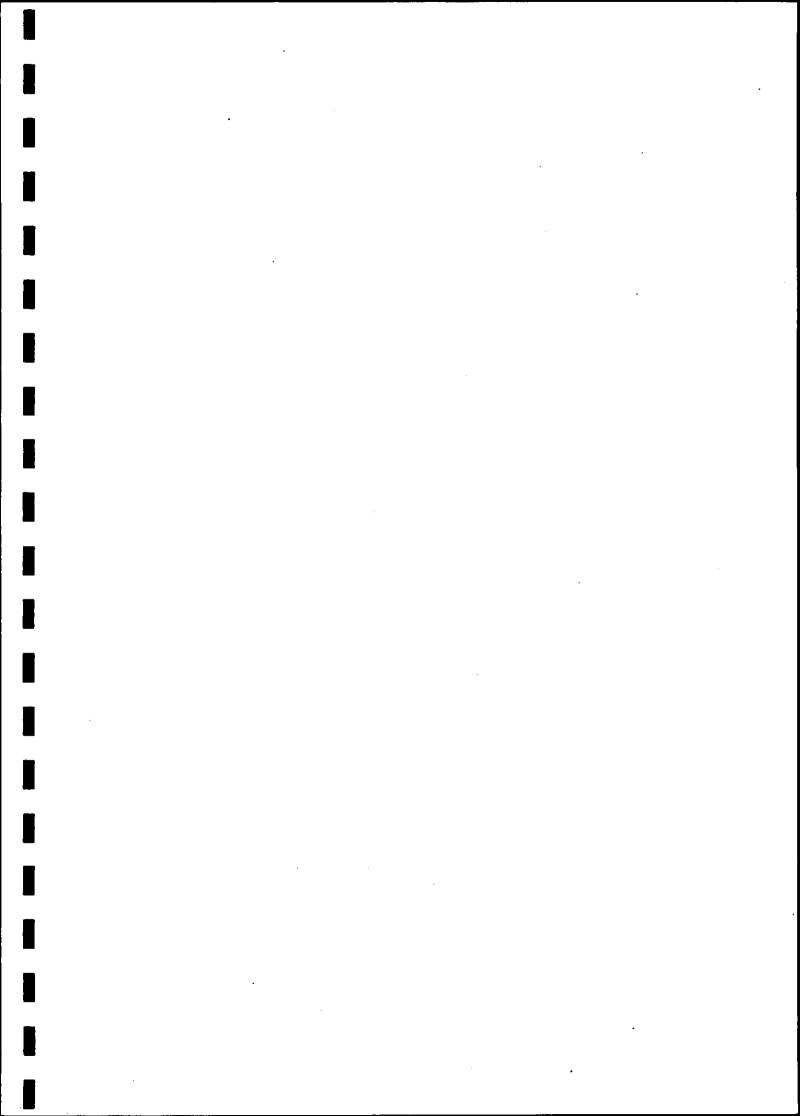
I				
NS				
L FAMILIES BY IFE				
AL FAMILIES BY IFE				
idáe midae*				
NET LOSSES 0 NET GAINS 1				

F	REGION Severn-Trent	RIVER	nny			
٠.	TO DATE 17.7.91	SITE	aton			
5	SORTER 1.1 SAMPLE CODE 11071					
£	AQC OF BMWP FAMILIES A. I	N VIAL B. IN S	SAMPLE +			
		LOSSES	GAINS			
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE			
	Differences between:  i) BMWP families listed  on sample data sheet  and	1 Asellidae* 2 Hydrophilidae*	None			
	ii) BMWP families found in VIAL by IFE	.··				
В	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 supplied with sample)	3 Hydrobiidae 4 Asellidae* 5 Hydrophilidae*			
			·			
NET LOSSES 0 NET GAINS 1						
ľ	NOTES  1,4 Asellus aquaticus 1 only 2,5 Hydraena gracilis (adults) 3 Potamopyrgus jenkinsi 1 only					

<del></del>			
REGION	Severn-Trent	RIVER	Glynch Brook
DATE	15.7.91	SITE	U/s Pitts Mill WRW
SORTER	2.4	SAMPLE CODE	NRA04 2310
AQC OF BMW	P FAMILIES A. I	N VIAL B. I	N SAMPLE +
		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) BMWP on s ii) BMWP	ces between: families listed ample data sheet and families found IAL by IFE	1 Ephemerellidae* 2 Nepidae 3 Leptoceridae	4 Chironomidae
<u> </u>			
B <u>S</u>	AMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) BMWP on s ii) BMWP	ces between: families listed ample data sheet and families found AMPLE by IFE	(This box only complete when no vial supplied with sample)	5 Ephemerellidae* 6 Haliplidae
3	,5 Ephemerella ign Cast skin in vial ,4 Tanytarsini in Haliplus sp. (lar	sand-grain case	NET GAINS 2

F	REGION	Severn-Trent	RIVER	Blackpool Brook	
	DATE	15.7.91	SITE	Barracks Bridge	
	ORTER	2.3	SAMPLE CODE	Unknown	
P	QC OF	BMWP FAMILIES A. IN	V VIAL B. I	N SAMPLE +	
			LOSSES	GAINS	
A	-	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	i) B o ii) B	rences between: MWP families listed n sample data sheet and MWP families found n VIAL by IFE	1 Mesoveliidae 2 Hydrophilidae* 3 Elmidae*	None	
, 					
В		SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	i) B o ii) B	rences between: MWP families listed n sample data sheet and MWP families found n SAMPLE by IFE	(This box only complete when no vial supplied with sample)	d 4 Hydrobiidae 5 Hydrophilidae* 6 Elmidae*	
	NET LOSSES 1 NET GAINS 1				
ì	1 Velia sp. (nymph) in vial 2,5 Hydraena gracilis (adults), Limnebius truncatellus (adults) 3,6 Elmis aenea (adults + larvae), Limnius volckmari (adults + larvae) Oulimnius tuberculatus (adult) 4 Potamopyrgus jenkinsi Hydropsyche sp. (rear end only) found in sample				

REGIO	N Severn-Trent	RIVER	Stour
.≎∵ <b>DAT</b>	E 3.7.91	SITE	clifford Chambers
SORTE	R 2.4	SAMPLE CODE U	nknown
AQC O	F BMWP FAMILIES A. II	N VIAL B. IN	SAMPLE +
		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	ferences between: BMWP families listed on sample data sheet and	1 Hydroptilidae	None
ii)	BMWP families found in VIAL by IFE	.··	`
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i)	ferences between:  BMWP families listed on sample data sheet and  BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	2 Physidae 3 Ancylidae 4 Simuliidae
	·	·	
NET LOSSES 1 NET GAINS 3			
NOTES  1 Empty cases (Hydroptila sp.) is 2 Physa fontinalis 3 Ancylus fluviatilis 1 only 4 Simulium equipum (pupa) S one		_	
Macronychus quadrituberculatus (larva) in vial			



	•	<u> </u>	· -	· · · · · · · · · · · · · · · · · · ·
. 1	REGION	Severn-Trent	RIVER	Teme
	DATE	8.11.91	SITE	U/s Ffrwdwen Brook
5	SORTER	1.3	SAMPLE CODE	Not known
P	AQC OF	BMWP FAMILIES A. I	N VIAL + B. I	N SAMPLE +
_			LOSSES	GAINS
A		VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) Bi on ii) Bi	rences between:  MWP families listed  n sample data sheet  and  MWP families found  n VIAL by IFE	1 Sericostomatidae*	2 Gyrinidae
<del></del>				
В		<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) BM or ii) BM	cences between:  IWP families listed  I sample data sheet  and  IWP families found  IN SAMPLE by IFE	(This box only complete when no vial supplied with sample)	d 3 Hydroptilidae 4 Lepidostomatidae 5 Sericostomatidae*
		;	NET LOSSES 0	NET GAINS 3
NO		2 Orectochilus villos 3 Hydroptila sp 1 onl 4 Lepidostoma hirtum	us (larva) y	

REGION	Severn-Trent	RIVER	Rea Brook	
DATE	31.10.91	SITE	Lea	
SORTER	1.1	SAMPLE CODE	NRA04 1056	
AQC OF E	BMWP FAMILIES A. I	N VIAL + B. I	N SAMPLE +	
<del></del>		LOSSES	GAINS	
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
i) BM on ii) BM	ences between:  WP families listed sample data sheet and  WP families found VIAL by IFE	None	None	
<del></del>				
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
i) BM on ii) BM	ences between: WP families listed sample data sheet and WP families found SAMPLE by IFE	(This box only completed when no vial supplied with sample)	d 1 Psychomyiidae 2 Simuliidae	
NET LOSSES 0 NET GAINS 2				
NOTES	1 Lype sp. 1 only 2 Simulium aureum g	roup (larva) 1 only		

•		
REGION Severn-Trent	RIVER	nny
DATE 8.11.91	SITE	istanstow
SORTER 1.5	SAMPLE CODE NI	RA04 1842
AQC OF BMWP FAMILIES A. I	N VIAL + B. IN	SAMPLE +
	LOSSES	GAINS
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 Asellidae 2 Scirtidae	3 Chironomidae
		I
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 supplied with sample)	4 Ephemerellidae 5 Leuctridae 6 Hydroptilidae
NOTES  1 Terrestrial isopod 2 Cast skin of Elode 3 Orthocladiinae in 4 Ephemerella ignita 5 Leuctra hippopus, 6 Ithytrichia sp. 1	s sp. (larva) in vial vial, Diamesinae, Tanytars 1 only L.nigra	NET GAINS 4

REGION S	Severn-Trent	7	Blithe
	JOVETH TICHE	RIVER	DITCHE
DATE :	31.10.91	SITE	Newton Bridge
SORTER	3.5	SAMPLE CODE	NRA04 7405
AQC OF BM	MWP FAMILIES A. II	V VIAL + B.	IN SAMPLE +
		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) BMW on ii) BMW	ences between:  IP families listed sample data sheet and  IP families found  VIAL by IFE	None	None
			<del>-                                    </del>
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) BMW on ii) BMW	nces between: P families listed sample data sheet and P families found SAMPLE by IFE	(This box only complete when no vial supplied with sample)	1 Neritidae 2 Planorbidae 3 Polycentropodidae
	;	NET LOSSES 0	NET GAINS 3
2	l Theodoxus fluviati 2 Anisus vortex, Arm 3 Polycentropus flavo	iger crista, Gyraulus a	lbus

	· · · · ·	
REGION Severn-Trent	RIVER	nny
DATE 7.11.91	SITE	aton
SORTER 1.1	SAMPLE CODE N	ot known
AQC OF BMWP FAMILIES A. II	N VIAL + B. IN	SAMPLE +
	LOSSES	GAINS
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	2 Hydropsychidae
B <u>SAMPLE</u>	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 supplied with sample)	3 Glossiphoniidae
	NET LOSSES 1	NET CAINS 2
NOTES  2 Hydropsyche siltala 3 Helobdella stagnali	ai is 1 only	

F	REGION	Severn-Trent	RIVER	yne Brook
	DATE	7.11.91	SITE	arton
S	SORTER	1.5	SAMPLE CODE N	RA04 1850
AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +			N SAMPLE +	
	-		LOSSES	GAINS
A		VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) BM or ii) BM	Tences between:  IWP families listed  IN sample data sheet  IN and  IWP families found  IN VIAL by IFE	None	None
			·	
В		SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) BM on ii) BM	ences between: WP families listed sample data sheet and WP families found SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Piscicolidae
			*.	
NET LOSSES 0 NET GAINS 1				
NO	OTES	1 Piscicola geometr	a 1 only	

	,			
REGI	ON Severn-Trent	RIVER	Cole	
DA	TE 15.10.91	SITE	owbrook Bridge	
SORT	ER 3.1	SAMPLE CODE N	RA04 8502	
AQC	OF BMWP FAMILIES A. I	N VIAL + B. IN	SAMPLE +	
		LOSSES	GAINS	
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
i	fferences between: ) BMWP families listed on sample data sheet and ) BMWP families found in VIAL by IFE	1 Erpobdellidae* 2 Dytiscidae* 3 Tipulidae*	4 Caenidae 5 Elmidae 6 Psychomyiidae	
<del> </del>				
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
i)	ferences between:  BMWP families listed on sample data sheet and BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	7 Erpobdellidae* 8 Dytiscidae* 9 Limnephilidae 10 Tipulidae*	
	;	NET LOSSES 0	NET GAINS 4	
NOTES	NOTES  4 Caenis luctuosa group 5 Elmis aenea (adult) 6 Tinodes waeneri 7 Erpobdella octoculata 8 Platambus maculatus, Ilybius sp. (larvae) 9 Limnephilus fuscicornis, L.extricatus 10 Pilaria discicollis group, Tipula montium group			

E	REGION	Severn-Trent	RIVER	Black Brook
	DATE	29.10.91	SITE	Fazeley
S	SORTER	3.1	SAMPLE CODE	NRA04 8884
P	AQC OF P	BMWP FAMILIES A. II	N VIAL + B. 1	IN SAMPLE +
_			LOSSES	GAINS
A		<u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
ļ	i) BM on ii) BM	ences between: WP families listed sample data sheet and WP families found VIAL by IFE	None	None
·		VINE by IFE		
В		SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) BM	ences between: WP families listed sample data sheet and	(This box only complete when no vial supplied with sample)	None
		WP families found SAMPLE by IFE	<b>.</b> .	
r.		;	NET LOSSES 0	NET GAINS 0
N	OTES	P.		

n	ECTON G	¬ —	
K	EGION Severn-Trent	RIVER	Cuttle Brook
	DATE 28.10.91	SITE	emple Balsall
SC	ORTER 3.5	SAMPLE CODE N	RA04 8441
AC	QC OF BMWP FAMILIES A. 1	IN VIAL + B. IN	SAMPLE +
		LOSSES	GAINS
A	<u>VIAL</u>	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
			.l
В	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 supplied with sample)	1 Ephemerellidae 2 Caenidae 3 Psychomyiidae
	;	NET LOSSES 0	NET GAINS 3
NO	TES 1 Ephemerella ignit 2 Caenis luctuosa g 3 Tinodes waeneri,	roup 1 only	
	L		

		_	
REGION	Severn-Trent	RIVERQ	uinny
DATE	7.11.91	SITE	/s Church Stretton WRW
SORTER	1.3	SAMPLE CODE N	ot known
AQC OF	BMWP FAMILIES A. I	N VIAL + B. IN	SAMPLE +
		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) I	erences between:  BMWP families listed  on sample data sheet  and  BMWP families found  in VIAL by IFE	1 Leptoceridae*	2 Odontoceridae
L			
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) E	erences between:  WMWP families listed  on sample data sheet  and  WMWP families found  on SAMPLE by IFE	(This box only completed when no vial supplied with sample)	3 Sphaeriidae 4 Glossiphoniidae 5 Limnephilidae 6 Leptoceridae*
	;	NET LOSSES 0	NET GAINS 4
NOTES	2 Odontocerum albico 3 Pisidium sp. 1 on 4 Glossiphonia comp 5 Drusus annulatus 6 Adicella reducta	ly lanata 1 only	

REGION	Severn-Trent	RIVER	Itchen
DATE	17.9.91	SITE	A425 Thorpe Bridge
SORTER	2.4	SAMPLE CODE	Not known
AQC OF	BMWP FAMILIES A. I	N VIAL + B. 1	IN SAMPLE +
		LOSSES	CAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) B o ii) B	rences between: MWP families listed n sample data sheet and MWP families found n VIAL by IFE	None	None
<del></del>			
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) B	rences between: MWP families listed n sample data sheet and MWP families found	(This box only complete when no vial supplied with sample)	None
i	n SAMPLE by IFE	. •.	
	·		
	;	NET LOSSES 0	NET GAINS 0
NOTES			

_	_ '		J	
]	REGION	Severn-Trent	RIVER P	iddle Brook
	DATE	21.10.91	SITE	eaford
:	SORTER'	2.3	SAMPLE CODE N	RA04 3516
A	AQC OF E	SMWP FAMILIES A. I	N VIAL + B. IN	SAMPLE +
	<del>  11 </del>	đ.	LOSSES	GAINS
A		VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) BM on ii) BM	ences between: WP families listed sample data sheet and WP families found VIAL by IFE	None	None
ı		· · · · · · · · · · · · · · · · · · ·		
В	-	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) BM on ii) BM	ences between: WP families listed sample data sheet and WP families found SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Unionidae
		;	NET LOSSES 0	NET GAINS 1
N	OTES	1 Anodonta sp. (juv	enile) 1 only	
	<u> </u>			

, nector		7 .	·
REGION	Severn-Trent	RIVER	Bushley Brook
DATE	9.10.91	SITE	Queenhill
SORTER	2.3	SAMPLE CODE	NRA04 2324
AQC OF	BMWP FAMILIES A. I	N VIAL + B.	IN SAMPLE +
		LOSSES	GAINS
A	<u>VIĄL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) Bi	rences between: MWP families listed n sample data sheet and MWP families found	None	None
i.	n VIAL by IFE		
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) Br or ii) Br	rences between:  IWP families listed  I sample data sheet  and  IWP families found  I SAMPLE by IFE	(This box only complete when no vial supplied with sample)	1 Oligochaeta 2 Polycentropodidae 3 Limnephilidae
	SAMPLE BY THE	•-	
	;	NET LOSSES 0	NET GAINS 3
NOTES	. 1 Tubificidae indet 2 Cyrnus trimaculatu 3 Limnephilus sp. (I	us 1 only rhombicus group)	

REGION	Severn-Trent	RIVER	Stour
DATE	23.9.91	SITE	Tidmington
SORTER	2.4	SAMPLE CODE	NRA04 3640
AQC OF E	BMWP FAMILIES A. I	N VIAL + B. II	N SAMPLE +
<del></del>		LOSSES	GAINS
A	<u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) BM on	ences between: WP families listed a sample data sheet and WP families found	None	None
	VIAL by IFE		
В	SAMPLE		
	SAFELE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) BM	ences between: WP families listed sample data sheet and	(This box only completed when no vial supplied with sample)	None
	WP families found SAMPLE by IFE	, • .	
			<u>:</u>
	;	NET LOSSES 0	NET GAINS 0
NOTES			

REGION	Severn-Trent	RIVER	Ryton
DATE	9.10.91	SITE	crooby
SORTER	4.1	SAMPLE CODE N	IRAO4 5705
AQC OF E	MWP FAMILIES A. I.	N VIAL + B. IN	SAMPLE +
		LOSSES	GAINS
. [A]	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) BM on ii) BM	ences between: WP families listed sample data sheet and WP families found VIAL by IFE	None	None
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) BM on ii) BM	ences between: WP families listed sample data sheet and WP families found SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Neritidae 2 Valvatidae 3 Ancylidae 4 Elmidae 5 Hydroptilidae
	;	NET LOSSES O	NEW CATANG TO
NOTES	1 Theodoxus fluviati 2 Valvata piscinalis 3 Ancylus fluviatili 4 Elmis aenea (larva 5 Hydroptila sp. 1 c	s is a) 1 only	NET GAINS 5

REGION Severn-Trent	RIVER	Bradgate Brook
DATE 7.10.91	SITE	Newtown Linford
SORTER 4.3	SAMPLE CODE	NRA04 4142
AQC OF BMWP FAMILIES A.	IN VIAL + B. I	IN SAMPLE +
	LOSSES	GAINS
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 <u>SAMPLE</u>	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 complete when no vial supplied with sample)	d None
7	NET LOSSES 0	NET GAINS 0
NOTES		
	-	

[		7	
REGION	Severn-Trent	RIVER	cclesbourne
DATE [	21.10.91	SITE	owers Lane
SORTER	4.1	SAMPLE CODE N	RA04 5019
AQC OF B	MWP FAMILIES A. I	N VIAL + B. IN	SAMPLE +
		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) BM on ii) BM	ences between: WP families listed sample data sheet and WP families found VIAL by IFE	1 Oligochaeta	None
L		1	<u> </u>
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) BM on ii) BM	ences between: WP families listed sample data sheet and WP families found SAMPLE by IFE	(This box only completed when no vial supplied with sample)	2 Rhyacophilidae
<u> </u>			,
	;	NET LOSSES 1	NET GAINS 1
NOTES	2 Glossosoma sp. 1	only	

REGION	Severn-Trent	RIVER	addesby (Owston) Brook
DATE	3.11.91	SITE	s Marefield (Gaddesby) Brook
SORTER	4.2	SAMPLE CODE NE	RA04 4324
AQC OF	BMWP FAMILIES A. I	N VIAL + B. IN	N SAMPLE +
		LOSSES	CATNG
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) BN or ii) BN	rences between: MWP families listed n sample data sheet and MWP families found n VIAL by IFE	None	None
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) BM or ii) BM	Tences between:  WP families listed  n sample data sheet  and  WP families found  n SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None
		<b>+</b> _	
			:
,	;	NET LOSSES 0	NET CAINS 0
NOTES	•		

REC	SION Severn-Trent	RIVER Se	nce (Soar)		
		3	nec (boar)		
I	DATE 21.10.91	SITE U/	s Little Stretton		
SORTER 4.2		SAMPLE CODE NRAO4 4201			
AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +					
<del></del>		LOSSES	GAINS		
<b>A</b>	<u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
	ifferences between: i) BMWP families listed on sample data sheet and i) BMWP families found in VIAL by IFE	None	None		
В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE		
	ifferences between: i) BMWP families listed on sample data sheet and i) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Asellidae 2 Hydrophilidae 3 Scirtidae		
	·				
NET LOSSES 0 NET GAINS 3					
NOTES  1 Asellus aquaticus 1 only 2 Hydraena sp. (adult) 1 only 3 Elodes sp. (larva) 1 only					

	· 	·			
REGION Severn-Trent	RIVER Ma	rkfield Brook			
DATE 23.10.91	SITE U/	s Rothley Brook			
SORTER 4.3	SAMPLE CODE NR	A04 4404			
AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +					
`	LOSSES	GAINS			
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 <u>SAMPLE</u>	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 supplied with sample)	None			
. ;	NET LOSSES 0	NET GAINS 0			
NOTES					