

ANNUAL RETURN INFORMATION REQUIREMENTS

SECTION E : OPERATING COSTS AND EFFICIENCY

Table E1a: Activity Based Costing - Water Service

					Report Year - 1 2003-04														999			
Line Ref.	Description	Ofwat Ref JR 00	Units	Field Type	10	20	30	40	50	60	199	210	220	230	240	250	260	299	Water Service			
					Water Resources & Treatment						Water Distribution						Total	CG				
					Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	sub total	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	sub total				
<b>Service Analysis - Water : Direct Costs</b>																						
E1.0	Name	-		I																		
E1.1	Employment costs	T21. L1	£m	I/C						0							0	0	0			
E1.2	Power	T21. L2	£m	I/C						0							0	0	0			
E1.3	Hired and contracted services	T21. L4	£m	I/C						0							0	0	0			
E1.4	Estimated running cost of PPP schemes	-	£m	I/C						0							0	0	0			
E1.5	Materials and consumables	T21. L6	£m	I/C						0							0	0	0			
E1.6	Service charges SEPA	T21. L7	£m	I/C						0							0	0	0			
E1.7	Bulk supply imports	T21. L8	£m	I/C						0							0	0	0			
E1.8	Other direct costs	T21. L9	£m	I/C						0							0	0	0			
E1.9	Total direct costs	T21. L10	£m	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
E1.10	General and support employment costs	-	£m	I/C						0							0	0	0			
E1.11	General and support other costs	-	£m	I/C						0							0	0	0			
E1.12	Functional expenditure	T21. L12	£m	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<b>Operating Expenditure</b>																						
E1.13	Customer services	T21. L13	£m	I																		
E1.14	Scientific services	T21. L14	£m	I																		
E1.15	Other business activities	T21. L15	£m	I																		
E1.16	Total business activities	T21. L16	£m	C														0				
E1.17	Local authority rates	T21. L17	£m	I																		
E1.18	Doubtful debts	T21. L18	£m	I																		
E1.19	Exceptional items - start-up costs	-	£m	I																		
E1.20	Exceptional items - reorganisation costs	-	£m	I																		
E1.21	Exceptional items - severance costs	-	£m	I																		
E1.22	Exceptional items - other costs (specify)	-	£m	I																		
E1.23	Total Exceptional items	T21. L19	£m	C														0				
E1.24	Total opex less third party services	T21. L20	£m	C														0				
E1.25	Third party services - opex	T21. L21	£m	I																		
E1.26	Total operating expenditure	T21. L16	£m	C														0				
<b>Reactive and Planned Maintenance (included in Opex)</b>																						
E1.27	Reactive and planned maintenance infrastructure	T21. L23	£m	I/C						0							0	0	0			
E1.28	Reactive and planned maintenance non-infrastructure	T21. L24	£m	I/C						0							0	0	0			
<b>Capital Maintenance</b>																						
E1.29	Infrastructure depreciation charge	T21. L25	£m	I/C														0				
E1.30	Non-infrastructure depreciation charge	T21. L26	£m	I/C														0				
E1.31	Amortisation of deferred credits	T21. L28	£m	I																		
E1.32	Amortisation of intangible assets	T21. L29	£m	I																		
E1.33	Business activities depreciation charge	T21. L30	£m	I																		
E1.34	Capital maintenance less third party services	T21. L31	£m	C														0				
E1.35	Third party services - depreciation	T21. L32	£m	I																		
E1.36	Total capital maintenance	T21. L33	£m	C														0				
<b>PPP Costs</b>																						
E1.37	Total annual charge for PPP schemes	T21. L25	£m	I														0				
E1.38	Annual charge for PPP schemes less estimated runnir	T21. L26	£m	C														0				
E1.39	Total operating costs	T21. L34	£m	C														0				

Prepared by: ..... Date: .....  
 Checked by: ..... Date: .....  
 Authorised by: ..... Date: .....

ANNUAL RETURN INFORMATION REQUIREMENTS

**SECTION E : OPERATING COSTS AND EFFICIENCY**  
**Table E1b: Activity Based Costing - Water Service**

					Report Year 2004-05																		
					10	20	30	40	50	60	199	210	220	230	240	250	260	299	999				
Line Ref.	Description	Ofwat Ref JR 00	Units	Field Type	Water Resources & Treatment							Water Distribution						Water Service					
					Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	sub total	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	sub total	Total	CG			
<b>Service Analysis - Water : Direct Costs</b>																							
E1.0	Name	-		I	NW	NE	SE	SW				NW	NE	SE	SW								
E1.1	Employment costs	T21, L1	£m	I/C	3.339	2.522	2.096	4.161			12.118	4.62	4.735	4.399	9.065			22.819	34.937	A2			
E1.2	Power	T21, L2	£m	I/C	1.036	1.301	0.905	2.654			5.896	0.343	1.209	0.191	1.684			3.427	9.323	A2			
E1.3	Hired and contracted services	T21, L4	£m	I/C	0.629	0.543	0.663	1.281			3.116	0.476	0.926	1.039	0.829			3.27	6.386	A2			
E1.4	Estimated running cost of PPP schemes	-	£m	I/C	0	0	0	0			0	0	0	0	0			0	0	N			
E1.5	Materials and consumables	T21, L6	£m	I/C	1.759	1.615	1.402	4.172			8.948	0.542	0.301	0.351	0.561			1.755	10.703	A2			
E1.6	Service charges SEPA	T21, L7	£m	I/C	0.125	0.032	0.072	0.087			0.316	0.022	0.009	0.005	0.007			0.043	0.359	A2			
E1.7	Bulk supply imports	T21, L8	£m	I/C	0	0	0	0			0	0	0	0	0			0	0	N			
E1.8	Other direct costs	T21, L9	£m	I/C	0.127	0.04	0.078	0.091			0.336	0.219	0.22	0.585	1.021			2.045	2.381	A2			
E1.9	Total direct costs	T21, L10	£m	C	7.015	6.053	5.216	12.446	0	0	30.73	6.222	7.4	6.57	13.167	0	0	33.359	64.089	A2			
E1.10	General and support employment costs	-	£m	I/C	0.913	0.574	0.471	1.296			3.254	1.071	1.079	0.898	1.667			4.715	7.969	A2			
E1.11	General and support other costs	-	£m	I/C	1.716	1.373	0.848	1.781			5.718	2.459	2.624	1.717	4.253			11.053	16.771	A2			
E1.12	Functional expenditure	T21, L12	£m	C	9.644	8	6.535	15.523	0	0	39.702	9.752	11.103	9.185	19.087	0	0	49.127	88.829	A2			
<b>Operating Expenditure</b>																							
E1.13	Customer services	T21, L13	£m	I															13.545	A2			
E1.14	Scientific services	T21, L14	£m	I															9.032	A2			
E1.15	Other business activities	T21, L15	£m	I															3.023	A2			
E1.16	Total business activities	T21, L16	£m	C															25.6	A2			
E1.17	Local authority rates	T21, L17	£m	I															14.769	A2			
E1.18	Doubtful debts	T21, L18	£m	I															15.079	A2			
E1.19	Exceptional items - start-up costs	-	£m	I															0	N			
E1.20	Exceptional items - reorganisation costs	-	£m	I															11.194	A2			
E1.21	Exceptional items - severance costs	-	£m	I															22.566	A2			
E1.22	Exceptional items - other costs (specify)	-	£m	I															0	N			
E1.23	Total Exceptional items	T21, L19	£m	C															33.76	A2			
E1.24	Total opex less third party services	T21, L20	£m	C															178.037	A2			
E1.25	Third party services - opex	T21, L21	£m	I															37.299	A2			
E1.26	Total operating expenditure	T21, L16	£m	C															215.336	A2			
<b>Reactive and Planned Maintenance (included in Opex)</b>																							
E1.27	Reactive and planned maintenance infrastructure	T21, L23	£m	I/C	0	0.068	0.041	0.356			0.465	4.323	3.349	3	7.384			18.056	18.521	D3			
E1.28	Reactive and planned maintenance non-infrastructure	T21, L24	£m	I/C	3.128	2.017	0.904	2.326			8.375	1.026	0.747	0.43	0.445			2.648	11.023	D3			
<b>Capital Maintenance</b>																							
E1.29	Infrastructure depreciation charge	T21, L25	£m	I/C							4.955							99.556	104.511	A2			
E1.30	Non-infrastructure depreciation charge	T21, L26	£m	I/C							33.168							21.433	54.601	A2			
E1.31	Amortisation of deferred credits	T21, L28	£m	I															-0.507	A2			
E1.32	Amortisation of intangible assets	T21, L29	£m	I															0	N			
E1.33	Business activities depreciation charge	T21, L30	£m	I															3.232	A2			
E1.34	Capital maintenance less third party services	T21, L31	£m	C															161.837	A2			
E1.35	Third party services - depreciation	T21, L32	£m	I															1.953	A2			
E1.36	Total capital maintenance	T21, L33	£m	C															163.79	A2			
<b>PPP Costs</b>																							
E1.37	Total annual charge for PPP schemes	T21, L25	£m	I																N			
E1.38	Annual charge for PPP schemes less estimated running	T21, L26	£m	C															0	N			
E1.39	Total operating costs	T21, L34	£m	C															379.126	A2			

Prepared by: Caroline Hay..... Date: 17/06/05.....  
 Checked by: Jo Dow..... Date: 17/06/05.....  
 Authorised by: Douglas Millican..... Date: 17/06/05.....



**SECTION E : OPERATING COSTS AND EFFICIENCY**  
**Table E1c: Activity Based Costing - Water Service**

Line Ref.	Description	Ofwat Ref JR00	Units	Field Type	Report Year + 1 Budget 2005-06				Report Year + 1 Forecast 2005-06				Report Year + 2 Budget 2006-07									
					10		20		50		100		110		150		200		210		250	
					Water Resources & Treatment	Water Distribution	Water Service		Water Resources & Treatment	Water Distribution	Water Service		Water Resources & Treatment	Water Distribution	Water Service		Water Resources & Treatment	Water Distribution	Water Service			
sub total		sub total		Total	CG	sub total		sub total		Total	CG	sub total		sub total		Total	CG					
<b>Service Analysis - Water : Direct Costs</b>																						
E1.0	Not in use																					
E1.1	Employment costs	T21, L1	£m	I/C	10.923	20.569	31.492	B3	10.923	20.569	31.492	B3	13.484	25.392	38.876	B3						
E1.2	Power	T21, L2	£m	I/C	5.315	3.089	8.404	B3	5.315	3.089	8.404	B3	6.561	3.813	10.374	B3						
E1.3	Hired and contracted services	T21, L4	£m	I/C	2.809	2.948	5.757	B3	2.809	2.948	5.757	B3	3.468	3.639	7.107	B3						
E1.4	Estimated running costs of PPP schemes	-	£m	I/C	0	0	0	N	0	0	0	N	0	0	0	N						
E1.5	Materials and consumables	T21, L6	£m	I/C	8.066	1.582	9.648	B3	8.066	1.582	9.648	B3	9.957	1.953	11.91	B3						
E1.6	Service charges SEPA	T21, L7	£m	I/C	0.285	0.039	0.324	B3	0.285	0.039	0.324	B3	0.352	0.048	0.4	B3						
E1.7	Bulk supply imports	T21, L8	£m	I/C	0	0	0	N	0	0	0	N	0	0	0	N						
E1.8	Other direct costs	T21, L9	£m	I/C	0.303	1.843	2.146	B3	0.303	1.843	2.146	B3	0.374	2.275	2.649	B3						
E1.9	Total direct costs	T21, L10	£m	C	27.701	30.07	57.771	B3	27.701	30.07	57.771	B3	34.196	37.12	71.316	B3						
E1.10	General and support employment costs	-	£m	I/C	2.933	4.25	7.183	B3	2.933	4.25	7.183	B3	3.621	5.246	8.867	B3						
E1.11	General and support other costs	-	£m	I/C	5.154	9.958	15.112	B3	5.154	9.958	15.112	B3	6.362	12.293	18.655	B3						
E1.12	Functional expenditure	T21, L12	£m	C	35.788	44.278	80.066	B3	35.788	44.278	80.066	B3	44.179	54.659	98.838	B3						
<b>Operating Expenditure</b>																						
E1.13	Customer services	T21, L13	£m	I			12.547	B3			12.547	B3			7.371	B3						
E1.14	Scientific services	T21, L14	£m	I			8.141	B3			8.141	B3			10.05	B3						
E1.15	Other business activities	T21, L15	£m	I			2.724	B3			2.724	B3			3.363	B3						
E1.16	Total business activities	T21, L16	£m	C			23.412	B3			23.412	B3			20.784	B3						
E1.17	Local authority rates	T21, L17	£m	I			17.521	B3			17.521	B3			19.169	B3						
E1.18	Doubtful debts	T21, L18	£m	I			15.24	B3			15.24	B3			19.217	B3						
E1.19	Exceptional items - start-up costs	-	£m	I			0	N			0	N			0	N						
E1.20	Exceptional items - reorganisation costs	-	£m	I			1.817	B3			1.817	B3			0	N						
E1.21	Exceptional items - severance costs	-	£m	I			0	N			0	N			0	N						
E1.22	Exceptional items - other costs (specify)	-	£m	I			0	N			0	N			0	N						
E1.23	Total Exceptional items	T21, L19	£m	C			1.817	B3			1.817	B3			0	N						
E1.24	Total opex less third party services	T21, L20	£m	C			138.056	B3			138.056	B3			158.008	B3						
E1.25	Third party services - opex	T21, L21	£m	I			52.326	B3			52.326	B3			0	N						
E1.26	Total operating expenditure	T21, L16	£m	C			190.382	B3			190.382	B3			158.008	B3						
<b>Reactive and Planned Maintenance (included in Opex)</b>																						
E1.27	Reactive and planned maintenance infrastructure	T21, L23	£m	I	0.419	16.274	16.693	D4	0.419	16.274	16.693	D4	0.517	20.089	20.606	D4						
E1.28	Reactive and planned maintenance non-infrastructure	T21, L24	£m	I	7.549	2.387	9.936	D4	7.549	2.387	9.936	D4	9.319	2.946	12.265	D4						
<b>Capital Maintenance</b>																						
E1.29	Infrastructure depreciation charge	T21, L25	£m	I/C	4.958	99.621	104.579	B3	4.958	99.621	104.579	B3	3.563	71.59	75.153	B3						
E1.30	Non-infrastructure depreciation charge	T21, L26	£m	I/C	32.43	20.956	53.386	B3	32.43	20.956	53.386	B3	32.887	21.251	54.138	B3						
E1.31	Amortisation of deferred credits	T21, L28	£m	I			-0.507	B3			-0.507	B3			-1.26	B3						
E1.32	Amortisation of intangible assets	T21, L29	£m	I			0	N			0	N			0	N						
E1.33	Business activities depreciation charge	T21, L30	£m	I			2.667	B3			2.667	B3			2.206	B3						
E1.34	Capital maintenance less third party services	T21, L31	£m	C			160.125	B3			160.125	B3			130.237	B3						
E1.35	Third party services - depreciation	T21, L32	£m	I			1.613	B3			1.613	B3			0	N						
E1.36	Total capital maintenance	T21, L33	£m	C			161.738	B3			161.738	B3			130.237	B3						
<b>PPP Costs</b>																						
E1.37	Total annual charge for PPP schemes	T21, L25	£m	I			0	N			0	N			0	N						
E1.38	Annual charge for PPP schemes less estimated running	T21, L26	£m	C			0	N			0	N			0	N						
E1.39	Total operating costs	T21, L34	£m	C			352.12	B3			352.12	B3			288.245	B3						

Prepared by: Caroline Hay..... Date: 17/06/05.....  
 Checked by: Jo Dow..... Date: 17/06/05.....  
 Authorised by: Douglas Millican..... Date: 17/06/05.....

**SECTION E : OPERATING COSTS AND EFFICIENCY**  
**Table E1c: Activity Based Costing - Water Service**

50  
**Report Year + 1 Budget**  
**2005-06**

150  
**Report Year + 1 Forecast**  
**2005-06**

250  
**Report Year + 2 Budget**  
**2006-07**

Line Ref.	Description	Ofwat Ref JR00	Units	Field Type
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Comment Necessary Y/N	Comment
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Comment Necessary Y/N	Comment
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Comment Necessary Y/N	Comment
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General	Benchmarking B2	Benchmarking A2
A1 G	A1 G	A1 G
A2 G	A2 G	A2 G
A3 G	A3 G	A3 N
A4 N	A4 N	A4 N
AX G	AX G	AX G
B2 G	B2 G	B2 N
B3 G	B3 N	B3 N
B4 N	B4 N	B4 N
BX G	BX G	BX N
C2 N	C2 N	C2 N
C3 N	C3 N	C3 N
C4 N	C4 N	C4 N
C5 N	C5 N	C5 N
CX N	CX N	CX N
M N	M N	M N
N N	N N	N N
D3 N	D3 N	D3 N
D4 N	D4 N	D4 N
D5 N	D5 N	D5 N
D6 N	D6 N	D6 N
DX N	DX N	DX N

**Service Analysis - Water : Direct Costs**

E1.0	Not in use			
E1.1	Employment costs	T21, L1	£m	I/C
E1.2	Power	T21, L2	£m	I/C
E1.3	Hired and contracted services	T21, L4	£m	I/C
E1.4	Estimated running costs of PPP schemes	-	£m	I/C
E1.5	Materials and consumables	T21, L6	£m	I/C
E1.6	Service charges SEPA	T21, L7	£m	I/C
E1.7	Bulk supply imports	T21, L8	£m	I/C
E1.8	Other direct costs	T21, L9	£m	I/C

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E1.9	Total direct costs	T21, L10	£m	C
E1.10	General and support employment costs	-	£m	I/C
E1.11	General and support other costs	-	£m	I/C

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E1.12	Functional expenditure	T21, L12	£m	C
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**Operating Expenditure**

E1.13	Customer services	T21, L13	£m	I
E1.14	Scientific services	T21, L14	£m	I
E1.15	Other business activities	T21, L15	£m	I
E1.16	Total business activities	T21, L16	£m	C
E1.17	Local authority rates	T21, L17	£m	I
E1.18	Doubtful debts	T21, L18	£m	I
E1.19	Exceptional items - start-up costs	-	£m	I
E1.20	Exceptional items - reorganisation costs	-	£m	I
E1.21	Exceptional items - severance costs	-	£m	I
E1.22	Exceptional items - other costs (specify)	-	£m	I
E1.23	Total Exceptional items	T21, L19	£m	C

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N	Please refer to general comments on cost capture
N	Please refer to general comments on cost capture
N	Please refer to general comments on cost capture

E1.24	Total opex less third party services	T21, L20	£m	C
E1.25	Third party services - opex	T21, L21	£m	I

N	Please refer to general comments on cost capture
N	Please refer to general comments on cost capture

N	Please refer to general comments on cost capture
N	Please refer to general comments on cost capture

N	Please refer to general comments on cost capture
N	Please refer to general comments on cost capture

E1.26	Total operating expenditure	T21, L16	£m	C
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N	Please refer to general comments on cost capture
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N	Please refer to general comments on cost capture
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N	Please refer to general comments on cost capture
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**Reactive and Planned Maintenance (included in Opex)**

E1.27	Reactive and planned maintenance infrastructure	T21, L23	£m	I
E1.28	Reactive and planned maintenance non-infrastructure	T21, L24	£m	I

N	Please refer to general comments on cost capture
N	Please refer to general comments on cost capture

N	Please refer to general comments on cost capture
N	Please refer to general comments on cost capture

N	Please refer to general comments on cost capture
N	Please refer to general comments on cost capture

**Capital Maintenance**

E1.29	Infrastructure depreciation charge	T21, L25	£m	I/C
E1.30	Non-infrastructure depreciation charge	T21, L26	£m	I/C
E1.31	Amortisation of deferred credits	T21, L28	£m	I
E1.32	Amortisation of intangible assets	T21, L29	£m	I
E1.33	Business activities depreciation charge	T21, L30	£m	I

N	Please refer to general comments on cost capture
N	Please refer to general comments on cost capture
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E1.34	Capital maintenance less third party services	T21, L31	£m	C
E1.35	Third party services - depreciation	T21, L32	£m	I

N	Please refer to general comments on cost capture
N	Please refer to general comments on cost capture

N	Please refer to general comments on cost capture
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N	Please refer to general comments on cost capture
N	Please refer to general comments on cost capture

E1.36	Total capital maintenance	T21, L33	£m	C
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N	Please refer to general comments on cost capture
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N	Please refer to general comments on cost capture
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N	Please refer to general comments on cost capture
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**PPP Costs**

E1.37	Total annual charge for PPP schemes	T21, L25	£m	I
E1.38	Annual charge for PPP schemes less estimated runni	T21, L26	£m	C

N	Please refer to general comments on cost capture
N	Please refer to general comments on cost capture

N	Please refer to general comments on cost capture
N	Please refer to general comments on cost capture

N	Please refer to general comments on cost capture
N	Please refer to general comments on cost capture

E1.39	Total operating costs	T21, L34	£m	C
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N	Please refer to general comments on cost capture
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N	Please refer to general comments on cost capture
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N	Please refer to general comments on cost capture
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Prepared by: Caroline Hay..... Date: 17/06/05.....  
Checked by: Jo Dow..... Date: 17/06/05.....  
Authorised by: Douglas Millican..... Date: 17/06/05.....

**SECTION E : OPERATING COSTS AND EFFICIENCY**  
**Table E2a: Activity Based Costing - Wastewater Service**

					Report Year - 1 2003-04												
Line Ref.	Description	Ofwat Ref	Units	Field Type	10	20	30	40	50	60	70	80	199	210	220	999	
					Sewerage								Sewage Treatment	Sludge Treatment and Disposal	Sewerage Service Total	CG	
					Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	sub total				
<b>Service Analysis - Waste Water Direct Costs</b>																	
E2.0	Name																
E2.1	Employment costs	T22. L1	£m	I/C									0			0	
E2.2	Power	T22. L2	£m	I/C									0			0	
E2.3	Hired and contracted services	T22. L4	£m	I/C									0			0	
E2.4	Not In Use																
E2.5	Materials and consumables	T22. L6	£m	I/C									0			0	
E2.6	Service charges SEPA	T22. L7	£m	I/C									0			0	
E2.7	Not in use																
E2.8	Other direct costs	T22. L8	£m	I/C									0			0	
E2.9	Total direct costs	T22. L11	£m	C	0	0	0	0	0	0	0	0	0	0	0	0	0
E2.10	General and support employment costs		£m	I/C									0			0	
E2.11	General and support other costs		£m	I/C									0			0	
E2.12	Functional expenditure	T22. L13	£m	C	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Operating Expenditure</b>																	
E2.13	Customer services	T22. L14	£m	I													
E2.14	Scientific services	T22. L15	£m	I													
E2.15	Other business activities	T22. L16	£m	I													
E2.16	Total business activities	T22. L17	£m	C												0	
E2.17	Local authority rates	T22. L18	£m	I													
E2.18	Doubtful debts	T22. L19	£m	I													
E2.19	Exceptional items - start-up costs		£m	I													
E2.20	Exceptional items - reorganisation costs		£m	I													
E2.21	Exceptional items - severance costs		£m	I													
E2.22	Exceptional items - other costs (specify)		£m	I													
E2.23	Total Exceptional items	T22. L20	£m	C												0	
E2.24	Total opex less third party services	T22. L21	£m	C												0	
E2.25	Third party services - opex	T22. L22	£m	I													
E2.26	Total operating expenditure	T22. L23	£m	C												0	
<b>Reactive and Planned Maintenance (included in Opex)</b>																	
E2.27	Reactive and planned maintenance infrastructure	T22. L24	£m	I/C									0			0	
E2.28	Reactive and planned maintenance non-infrastructure	T22. L25	£m	I/C									0			0	
<b>Capital Maintenance</b>																	
E2.29	Infrastructure depreciation charge	T22. L26	£m	I/C												0	
E2.30	Non-infrastructure depreciation charge	T22. L28	£m	I/C												0	
E2.31	Amortisation of deferred credits	T22. L29	£m	I													
E2.32	Amortisation of intangible assets	T22. L30	£m	I													
E2.33	Business activities depreciation charge	T22. L31	£m	I													
E2.34	Capital maintenance less third party services	T22. L32	£m	C												0	
E2.35	Third party services - depreciation	T22. L33	£m	I													
E2.36	Total capital maintenance	T22. L34	£m	C												0	
<b>Total Operating Costs</b>																	
E2.37	Not In Use																
E2.38	Not In Use																
E2.39	Total operating costs	T22. L35	£m	C												0	

Prepared by: ..... Date: .....  
 Checked by: ..... Date: .....  
 Authorised by: ..... Date: .....

**SECTION E : OPERATING COSTS AND EFFICIENCY**  
**Table E2b: Activity Based Costing - Wastewater Service**

					Report Year 2004-05												
Line Ref.	Description	Ofwat Ref	Units	Field Type	10	20	30	40	50	60	70	80	199	210	220	999	
					Sewerage										Sewage Treatment	Sludge Treatment	Sewerage Service Total
					Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	sub total				
<b>Service Analysis - Waste Water Direct Costs</b>																	
E2.0	Name	-		I	NW	NE	SE	SW									
E2.1	Employment costs	T22, L1	£m	I/C	2.582	3.384	2.687	4.417					13.07	9.887	2.427		25.384 A2
E2.2	Power	T22, L2	£m	I/C	0.583	1.114	0.482	1.441					3.62	5.682	0.005		9.307 A2
E2.3	Hired and contracted services	T22, L4	£m	I/C	0.698	1.261	1.18	2.223					5.362	1.717	3.744		10.823 A2
E2.4	Not in use																
E2.5	Materials and consumables	T22, L6	£m	I/C	0.33	0.345	0.194	0.469					1.338	2.131	0.228		3.697 A2
E2.6	Service charges SEPA	T22, L7	£m	I/C	0.147	0.166	0.12	0.532					0.965	5.43	0.003		6.398 A2
E2.7	Not in use																
E2.8	Other direct costs	T22, L8	£m	I/C	0.156	0.252	0.157	0.393					0.958	0.405	0.056		1.419 A2
E2.9	Total direct costs	T22, L11	£m	C	4.496	6.522	4.82	9.475	0	0	0	0	25.313	25.252	6.463		57.028 A2
E2.10	General and support employment costs	-	£m	I/C	0.456	0.64	0.455	0.83					2.381	1.978	0.49		4.849 A2
E2.11	General and support other costs	-	£m	I/C	1.445	1.913	1.478	2.266					7.102	4.91	1.881		13.893 A2
E2.12	Functional expenditure	T22, L13	£m	C	6.397	9.075	6.753	12.571	0	0	0	0	34.796	32.14	8.834		75.77 A2
<b>Operating Expenditure</b>																	
E2.13	Customer services	T22, L14	£m	I													14.383 A2
E2.14	Scientific services	T22, L15	£m	I													2.884 A2
E2.15	Other business activities	T22, L16	£m	I													1.954 A2
E2.16	Total business activities	T22, L17	£m	C													19.221 A2
E2.17	Local authority rates	T22, L18	£m	I													8.802 A2
E2.18	Doubtful debts	T22, L19	£m	I													18.426 A2
E2.19	Exceptional items - start-up costs	-	£m	I													0 N
E2.20	Exceptional items - reorganisation costs	-	£m	I													9.292 A2
E2.21	Exceptional items - severance costs	-	£m	I													18.734 A2
E2.22	Exceptional items - other costs (specify)	-	£m	I													0 N
E2.23	Total Exceptional items	T22, L20	£m	C													28.026 A2
E2.24	Total opex less third party services	T22, L21	£m	C													150.245 A2
E2.25	Third party services - opex	T22, L22	£m	I													3.884 A2
E2.26	Total operating expenditure	T22, L23	£m	C													154.129 A2
<b>Reactive and Planned Maintenance (included in Opex)</b>																	
E2.27	Reactive and planned maintenance infrastructure	T22, L24	£m	I/C	1.042	3.791	3.68	5.553					14.066	0	0		14.066 D3
E2.28	Reactive and planned maintenance non-infrastructure	T22, L25	£m	I/C	1.561	0.789	1.33	1.062					4.742	8.072	0		12.814 D3
<b>Capital Maintenance</b>																	
E2.29	Infrastructure depreciation charge	T22, L26	£m	I/C									40.395	0	0		40.395 A2
E2.30	Non-infrastructure depreciation charge	T22, L28	£m	I/C									18.561	34.049	1.129		53.739 A2
E2.31	Amortisation of deferred credits	T22, L29	£m	I													-0.499 A2
E2.32	Amortisation of intangible assets	T22, L30	£m	I													0 N
E2.33	Business activities depreciation charge	T22, L31	£m	I													2.538 A2
E2.34	Capital maintenance less third party services	T22, L32	£m	C													96.173 A2
E2.35	Third party services - depreciation	T22, L33	£m	I													0.328 A2
E2.36	Total capital maintenance	T22, L34	£m	C													96.501 A2
<b>Total Operating Costs</b>																	
E2.37	Not In Use																
E2.38	Not In Use																
E2.39	Total operating costs	T22, L35	£m	C													250.63 A2

Prepared by: Caroline Hay..... Date: 17/06/05.....  
 Checked by: Jo Dow..... Date: 17/06/05.....  
 Authorised by: Douglas Millican..... Date: 17/06/05.....

**SECTION E : OPERATING COSTS AND EFFICIENCY**  
**Table E2b: Activity Based Costing - Wastewater Service**

999	
<b>Report Year</b>	
<b>2004-05</b>	
Comment Necessary Y/N	Comment

Line Ref.	Description	Ofwat Ref	Units	Field Type
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Service Analysis - Waste Water Direct Costs				
E2.0	Name	-		I
E2.1	Employment costs	T22_L1	£m	IC
E2.2	Power	T22_L2	£m	IC
E2.3	Hired and contracted services	T22_L4	£m	IC
E2.4	Not in use			
E2.5	Materials and consumables	T22_L6	£m	IC
E2.6	Service charges SEPA	T22_L7	£m	IC
E2.7	Not in use			
E2.8	Other direct costs	T22_L8	£m	IC
E2.9	Total direct costs	T22_L11	£m	C
E2.10	General and support employment costs	-	£m	IC
E2.11	General and support other costs	-	£m	IC
E2.12	Functional expenditure	T22_L13	£m	C
Operating Expenditure				
E2.13	Customer services	T22_L14	£m	I
E2.14	Scientific services	T22_L15	£m	I
E2.15	Other business activities	T22_L16	£m	I
E2.16	Total business activities	T22_L17	£m	C
E2.17	Local authority rates	T22_L18	£m	I
E2.18	Doubtful debts	T22_L19	£m	I
E2.19	Exceptional items - start-up costs	-	£m	I
E2.20	Exceptional items - reorganisation costs	-	£m	I
E2.21	Exceptional items - severance costs	-	£m	I
E2.22	Exceptional items - other costs (specify)	-	£m	I
E2.23	Total Exceptional items	T22_L20	£m	C
E2.24	Total opex less third party services	T22_L21	£m	C
E2.25	Third party services - opex	T22_L22	£m	I
E2.26	Total operating expenditure	T22_L23	£m	C
Reactive and Planned Maintenance (included in Opex)				
E2.27	Reactive and planned maintenance infrastructure	T22_L24	£m	IC
E2.28	Reactive and planned maintenance non-infrastructure	T22_L25	£m	IC
Capital Maintenance				
E2.29	Infrastructure depreciation charge	T22_L26	£m	IC
E2.30	Non-infrastructure depreciation charge	T22_L28	£m	IC
E2.31	Amortisation of deferred credits	T22_L29	£m	I
E2.32	Amortisation of intangible assets	T22_L30	£m	I
E2.33	Business activities depreciation charge	T22_L31	£m	I
E2.34	Capital maintenance less third party services	T22_L32	£m	C
E2.35	Third party services - depreciation	T22_L33	£m	I
E2.36	Total capital maintenance	T22_L34	£m	C
Total Operating Costs				
E2.37	Not In Use			
E2.38	Not In Use			
E2.39	Total operating costs	T22_L35	£m	C

Comment Necessary Y/N	Comment	General	Benchmarking A1
N	Please refer to general comments on cost capture	A1 G	A1 G
N	Please refer to general comments on cost capture	A2 G	A2 N
N	Please refer to general comments on cost capture	A3 G	A3 N
N	Please refer to general comments on cost capture	A4 N	A4 N
N	Please refer to general comments on cost capture	AX G	AX G
N	Please refer to general comments on cost capture	B2 G	B2 N
N	Please refer to general comments on cost capture	B3 G	B3 N
N	Please refer to general comments on cost capture	B4 N	B4 N
N	Please refer to general comments on cost capture	BX G	BX N
N	Please refer to general comments on cost capture	C2 N	C2 N
N	Please refer to general comments on cost capture	C3 N	C3 N
N	Please refer to general comments on cost capture	C4 N	C4 N
N	Please refer to general comments on cost capture	C5 N	C5 N
N	Please refer to general comments on cost capture	CX N	CX N
N	Please refer to general comments on cost capture	M N	M N
N	Please refer to general comments on cost capture	N N	N N
N	Please refer to general comments on cost capture	D3 N	D3 N
N	Please refer to general comments on cost capture	D4 N	D4 N
N	Please refer to general comments on cost capture	D5 N	D5 N
N	Please refer to general comments on cost capture	D6 N	D6 N
N	Please refer to general comments on cost capture	DX N	DX N

Issues with data	Problem ?	Solution
E2.29 should equal F9.8 (col 7)	Y	Please amend numbers so they reconcile

Prepared by: Caroline Hay.....Date: 17/06/05  
 Checked by: Jo Dow.....Date: 17/06/05  
 Authorised by: Douglas Millican.....Date: 17/06/05

ANNUAL RETURN INFORMATION REQUIREMENT

**SECTION E : OPERATING COSTS AND EFFICIENCY**  
**Table E2c: Activity Based Costing - Wastewater Service**

Line Ref.	Description	Ofwat Ref	Units	Field Type	Report Year + 1 Budget 2005-06				Report Year + 1 Forecast 2005-06				Report Year + 2 Budget 2006-07						
					10	20	30	50	100	110	120	150	200	210	220	250			
					Sewerage		Sewage Treatment	Sludge Treatment	Sewerage Service Total	Sewerage		Sewage Treatment	Sludge Treatment	Sewerage Service Total	Sewerage		Sewage Treatment	Sludge Treatment	Sewerage Service Total
All Areas Total				CG	All Areas Total				CG	All Areas Total				CG					
<b>Service Analysis - Waste Water Direct Costs</b>																			
E2.0	Not in use																		
E2.1	Employment costs	T22, L1	£m	I/C	11.781	8.912	2.188	22.881	B3	11.781	8.912	2.188	22.881	B3	14.543	11.002	2.701	28.246	B3
E2.2	Power	T22, L2	£m	I/C	3.263	5.122	0.005	8.39	B3	3.263	5.122	0.005	8.39	B3	4.028	6.323	0.006	10.357	B3
E2.3	Hired and contracted services	T22, L4	£m	I/C	4.833	1.548	3.375	9.756	B3	4.833	1.548	3.375	9.756	B3	5.966	1.911	4.166	12.043	B3
E2.4	Not in use																		
E2.5	Materials and consumables	T22, L6	£m	I/C	1.206	1.921	0.206	3.333	B3	1.206	1.921	0.206	3.333	B3	1.489	2.371	0.254	4.114	B3
E2.6	Service charges SEPA	T22, L7	£m	I/C	0.87	4.895	0.003	5.768	B3	0.87	4.895	0.003	5.768	B3	1.074	6.043	0.004	7.121	B3
E2.7	Not in use																		
E2.8	Other direct costs	T22, L8	£m	I/C	0.864	0.365	0.05	1.279	B3	0.864	0.365	0.05	1.279	B3	1.067	0.451	0.062	1.58	B3
E2.9	Total direct costs	T22, L11	£m	C	22.817	22.763	5.827	51.407	B3	22.817	22.763	5.827	51.407	B3	28.167	28.101	7.193	63.461	B3
E2.10	General and support employment costs	-	£m	I/C	2.146	1.783	0.442	4.371	B3	2.146	1.783	0.442	4.371	B3	2.649	2.201	0.546	5.396	B3
E2.11	General and support other costs	-	£m	I/C	6.402	4.426	1.696	12.524	B3	6.402	4.426	1.696	12.524	B3	7.903	5.464	2.094	15.461	B3
E2.12	Functional expenditure	T22, L13	£m	C	31.365	28.972	7.965	68.302	B3	31.365	28.972	7.965	68.302	B3	38.719	35.766	9.833	84.318	B3
<b>Operating Expenditure</b>																			
E2.13	Customer services	T22, L14	£m	I				13.326	B3				13.326	B3				7.829	B3
E2.14	Scientific services	T22, L15	£m	I				2.6	B3				2.6	B3				3.21	B3
E2.15	Other business activities	T22, L16	£m	I				1.777	B3				1.777	B3				2.194	B3
E2.16	Total business activities	T22, L17	£m	C				17.703	B3				17.703	B3				13.233	B3
E2.17	Local authority rates	T22, L18	£m	I				10.393	B3				10.393	B3				8.76	B3
E2.18	Doubtful debts	T22, L19	£m	I				18.623	B3				18.623	B3				23.483	B3
E2.19	Exceptional items - start-up costs	-	£m	I				0	N				0	N				0	N
E2.20	Exceptional items - reorganisation costs	-	£m	I				1.509	B3				1.509	B3				0	N
E2.21	Exceptional items - severance costs	-	£m	I				0	N				0	N				0	N
E2.22	Exceptional items - other costs (specify)	-	£m	I				0	N				0	N				0	N
E2.23	Total Exceptional items	T22, L20	£m	C				1.509	B3				1.509	B3				0	N
E2.24	Total opex less third party services	T22, L21	£m	C				116.53	B3				116.53	B3				129.794	B3
E2.25	Third party services - opex	T22, L22	£m	I				5.449	B3				5.449	B3				0	N
E2.26	Total operating expenditure	T22, L23	£m	C				121.979	B3				121.979	B3				129.794	B3
<b>Reactive and Planned Maintenance (Included in Opex)</b>																			
E2.27	Reactive and planned maintenance infrastructure	T22, L24	£m	I/C	12.679	0	0	12.679	D4	12.679	0	0	12.679	D4	15.652	0	0	15.652	D4
E2.28	Reactive and planned maintenance non-infrastructure	T22, L25	£m	I/C	4.274	7.276	0	11.55	D4	4.274	7.276	0	11.55	D4	5.277	8.982	0	14.259	D4
<b>Capital Maintenance</b>																			
E2.29	Infrastructure depreciation charge	T22, L26	£m	I/C	40.421	0	0	40.421	B3	40.421	0	0	40.421	B3	29.047	0	0	29.047	B3
E2.30	Non-infrastructure depreciation charge	T22, L28	£m	I/C	18.148	33.292	1.104	52.544	B3	18.148	33.292	1.104	52.544	B3	18.404	33.761	1.12	53.285	B3
E2.31	Amortisation of deferred credits	T22, L29	£m	I				-0.499	B3				-0.499	B3				-1.24	B3
E2.32	Amortisation of intangible assets	T22, L30	£m	I				0	N				0	N				0	N
E2.33	Business activities depreciation charge	T22, L31	£m	I				2.625	B3				2.625	B3				2.171	B3
E2.34	Capital maintenance less third party services	T22, L32	£m	C				95.091	B3				95.091	B3				83.263	B3
E2.35	Third party services - depreciation	T22, L33	£m	I				1.587	B3				1.587	B3				0	N
E2.36	Total capital maintenance	T22, L34	£m	C				96.678	B3				96.678	B3				83.263	B3
<b>Total Operating Costs</b>																			
E2.37	Not In Use																		
E2.38	Not In Use																		
E2.39	Total operating costs	T22, L35	£m	C				218.657	B3				218.657	B3				213.057	B3

Prepared by: Caroline Hay..... Date: 17/06/05.....  
 Checked by: Jo Dow..... Date: 17/06/05.....  
 Authorised by: Douglas Millican..... Date: 17/06/05.....



ANNUAL RETURN INFORMATION REQUIREMENT

SECTION E : OPERATING COSTS AND EFFICIENCY

Table E3: PPP Project Analysis

Line Ref.	Description	Ofwat Ref	Units	Field Type	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	Total	
					Highland CG	Highland CG	Tay CG	Aberdeen CG	Aberdeen CG	Aberdeen CG	Aberdeen CG	Moray Coast CG	Moray Coast CG	Moray Coast CG	AVSE CG	AVSE CG	AVSE CG	AVSE CG	AVSE CG	Levenmouth CG	Dalmuir CG	Daldowie CG	MSI CG	MSI CG	MSI CG	CG	CG	CG	CG	CG	CG
<b>Project Data</b>																															
E3.0	Name			I	F1 William	Inverness	Hatton	Nigg	Persley	Peterhead	Fraserburgh	Lossiemouth	Buckie	Barff/Macduff	Seaford	Newbridge	East Calder	Blackburn	Whitburn	Levenmouth	Dalmuir	Daldowie	Meadowhead	Stevenson	Inverclyde						
E3.0a	North West		1/0	I	1A1	1A1	1A1	0A1	0A1	0A1	0A1	1A1	1A1	1A1	1A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1						
E3.0b	North East		1/0	I	0A1	0A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1						
E3.0c	South East		1/0	I	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1						
E3.0d	South West		1/0	I	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1						
E3.1	Annual average resident connected population		000	IC	8B3	52B3	1825B3	1957B3	1826B3	218B3	1825B3	305B3	113B3	99B3	527B3	202B3	680B3	13B3	112B3	112B3	3985B3	0N	1882B3	89B3	78B3						
E3.2	Annual average non-resident connected population		000	IC	11B3	29B3	32B3	36B3	06B3	07B3	03B3	09B3	05B3	06B3	123B3	02B3	04B3	03B3	01B3	19B3	51B3	37B3	07B3	06B3							
E3.3	Trade effluent load received by works		kg/COD/day	LC	891B4	2090B4	5655B4	5243B4	872B4	3065B4	3234B4	342B4	1527B4	419B4	29604B4	3251B4	3645B4	3329B4	63B4	27108B4	11255B4	0N	25302B4	8211B4	375B4						
E3.4	Tanker load received by works		kg/COD/day	LC	0N	0N	0N	0N	0N	0N	0N	0N	0N	0N	5438B4	0N	0N	0N	0N	178B4	0N	0N	0N	0N							
E3.5	Population equivalent of total load received		000	LC	18B3	85B3	263B3	284B3	31B3	49B3	48B3	37B3	27B3	15B3	886B3	46B3	94B3	19B3	13B3	342B3	622B3	0N	349B3	92B3	97B3						
E3.6	Project Status			I	S10	A1	S10	A1	S10	A1	S10	A1	S10	A1	S10	A1	S10	A1	S10	A1	S9	A1	S10	A1	S10	A1					
<b>Scope of Works</b>																															
E3.7	Sewerage		1/0	I	1A1	1A1	1A1	1A1	0A1	0A1	1A1	1A1	1A1	1A1	1A1	1A1	0A1	0A1	0A1	0A1	1A1	0A1	0A1	0A1	1A1						
E3.8	Sewage Treatment		1/0	I	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1						
E3.9	Sludge Treatment		1/0	I	0A1	1A1	1A1	1A1	0A1	0A1	0A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1						
E3.10	Terminal Pumping Station		1/0	I	1A1	1A1	1A1	1A1	0A1	0A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1						
E3.11	Other (state details)		1/0	I	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1						
E3.12	Not In Use																														
E3.13	Not In Use																														
E3.14	Not In Use																														
E3.15	Not In Use																														
E3.16	Not In Use																														
<b>Sewage Treatment - Effluent Consent Standard</b>																															
E3.17	Suspended solids consent		mg/l	I	35A1	35A1	0N	0N	40A1	0N	0N	0N	0N	0N	150A1	0N	0N	0N	0N	0N	35A1	0N	0N	0N	35A1						
E3.18	BOD consent		mg/l	I	25A1	25A1	25A1	25A1	25A1	25A1	25A1	25A1	25A1	25A1	25A1	15A1	15A1	10A1	10A1	25A1	25A1	0N	25A1	25A1	25A1						
E3.19	COD consent		mg/l	I	0N	0N	125A1	125A1	125A1	125A1	125A1	125A1	125A1	125A1	125A1	125A1	125A1	125A1	125A1	125A1	125A1	0N	125A1	125A1	125A1						
E3.20	Ammonia consent		mg/l	I	0N	0N	50A1	0N	35A1	0N	0N	0N	0N	0N	5A1	2A1	2A1	2A1	1A1	0N	20A1	0N	50A1	50A1	0N						
E3.21	Phosphate consent		mg/l	I	0N	0N	0N	0N	2A1	0N	0N	0N	0N	0N	0.5A1	0.5A1	0.5A1	0.5A1	0.5A1	0N	0N	0N	0N	0N	0N						
E3.22	Compliance with effluent consent standard		%	I	100A1	100A1	100A1	100A1	100A1	100A1	100A1	100A1	100A1	100A1	98A1	100A1	100A1	100A1	100A1	100A1	100A1	0N	100A1	100A1	100A1						
<b>Sewage Treatment - Flow</b>																															
E3.23	Average daily flow in dry weather		Mld	LC	5B3	21B3	84B3	69B3	12B3	9B3	8B3	10B3	6B3	4B3	265B3	12B3	24B3	6B3	4B3	57B3	198B3	0N	94B3	35B3	39B3						
E3.24	Ratio of daily maximum to minimum flow		nr	I	3.1B3	2.8B3	2.2B3	2.7B3	3.5B3	2.9B3	3.2B3	3.5B3	4B4	4B4	1.8B3	1.6B3	2.2B3	1.9B3	1.8B3	2.2B3	2B3	0N	0M	0M	0M						
<b>Treatment Works Category</b>																															
E3.25	Primary		1/0	I	1A1	1A1	1A1	1A1	0A1	1A1	1A1	1A1	0A1	0A1	0A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	0N	0A1	1A1	1A1					
E3.26	Secondary activated sludge		1/0	I	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1	1A1						
E3.27	Secondary biological		1/0	I	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1						
E3.28	Tertiary A1		1/0	I	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1						
E3.29	Tertiary A2		1/0	I	0A1	1A1	0A1	0A1	1A1	0A1	1A1	0A1	1A1	0A1	1A1	0A1	1A1	0A1	1A1	0A1	1A1	0N	1A1	0A1	0A1						
E3.30	Tertiary B1		1/0	I	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1						
E3.31	Tertiary B2		1/0	I	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1						
<b>Miscellaneous Data</b>																															
E3.32	Sea outfalls at works		1/0	I	1A1	1A1	1A1	1A1	0A1	1A1	1A1	1A1	1A1	1A1	0A1	0A1	0A1	0A1	0A1	1A1	0A1	0A1	1A1	1A1	1A1						
E3.33	Terminal Pumping costs		1/0	I	1A1	1A1	1A1	0A1	0A1	0A1	1A1	1A1	1A1	1A1	0A1	0A1	0A1	0A1	0A1	1A1	0A1	0A1	0A1	0A1	0A1						
E3.34	Own sludge		1/0	I	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1	0A1						
E3.35	Not In Use																														
E3.36	Sludge centre		1/0	I	0A1	1A1	1A1	1A1	0A1	0A1	0A1	1A1	0A1	0A1	1A1	1A1	0A1	0A1	0A1	1A1	0A1	1A1	1A1	1A1	0A1						
E3.37	Not In Use																														
E3.38	Not In Use																														
E3.39	Not In Use																														
E3.40	Not In Use																														
E3.41	Not In Use																														
E3.42	Not In Use																														
E3.43	Not In Use																														
E3.44	Not In Use																														
E3.45	Not In Use																														
E3.46	Not In Use																														
<b>Sewerage Data</b>																															
E3.47	Total length of sewer		km	I	29B3	8.6B3	34.5B3	15B3	0N	0N	0.7B3	32.4B3	24.3B3	14.2B3	28B3	2.55B3	0N	0N	0N	4.3B3	0N	0N	0N	0.9B3							



ANNUAL RETURN INFORMATION REQUIREMENT

**SECTION E : OPERATING COSTS AND EFFICIENCY**  
**Table E3: PPP Cost Analysis**

Line Ref.	Description	Ofwat Ref	Units	Field Type	10	20	30	40	50	60	70	80	90	100	110	120
					Highland	Highland	Tay	Aberdeen	Aberdeen	Aberdeen	Aberdeen	Moray Coast	Moray Coast	Moray Coast	AVSE	AVSE
					CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG
E3a.0	Name				Ft William	Inverness	Hatton	Nigg	Persley	Peterhead	Fraserburgh	Lossie Mouth	Buckie	Banff/Macduff	Seafeld	Newbridge
<b>Sewerage Costs</b>																
E3a.1	Estimated direct operating cost		£m	I/C	0.034	0.095	1.659	0.3	0	0	0.018	0.398	0.305	0.231	0.265	0.002
E3a.2	Rates paid by the PPP contractor		£m	I/C	0	0	0	0	0	0	0	0	0	0	0	0
E3a.3	SEPA charges paid by the PPP contractor		£m	I/C	0.003	0.003	0.01	0	0	0	0	0.004	0.01	0.01	0	0
E3a.4	Total direct cost		£m	C	0.037	0.098	1.669	0.3	0	0	0.018	0.402	0.315	0.241	0.265	0.002
E3a.5	Scottish Water general & support expenditure		£m	I/C	0	0.003	0.03	0.003	0	0	0	0.02	0.004	0.004	0.008	0
E3a.6	Scottish Water SEPA charges		£m	I/C	0	0	0	0	0	0	0	0.001	0	0	0	0
E3a.7	Total sewerage cost		£m	C	0.037	0.101	1.699	0.303	0	0	0.018	0.423	0.319	0.245	0.273	0.002
<b>Sewage Treatment Costs</b>																
E3a.8	Estimated direct operating cost		£m	I/C	0.433	0.941	1.292	0.687	0.711	0.499	0.475	0.319	0.226	0.244	4.739	0.725
E3a.9	Rates paid by the PPP contractor		£m	I/C	0.052	0.194	0.169	0.389	0.12	0.051	0.059	0.028	0.031	0.038	0.661	0.09
E3a.10	SEPA charges paid by the PPP contractor		£m	I/C	0.04	0.147	0.104	0.257	0.01	0.023	0.046	0.027	0.027	0.027	0.054	0.006
E3a.11	Total direct cost		£m	C	0.525	1.282	1.565	1.333	0.841	0.573	0.58	0.374	0.284	0.309	5.454	0.821
E3a.12	Scottish Water general & support expenditure		£m	I/C	0.006	0.041	0.029	0.013	0.01	0.007	0.006	0.018	0.003	0.005	0.172	0.009
E3a.13	Scottish Water SEPA charges		£m	I/C	0	0	0	0.181	0	0	0	0	0	0	0	0
E3a.14	Total sewage treatment cost		£m	C	0.531	1.323	1.594	1.527	0.851	0.58	0.586	0.392	0.287	0.314	5.626	0.83
E3a.15	Estimated terminal pumping cost		£m	I/C	0	0	0	0	0	0	0	0	0	0	0	0
<b>Sludge Treatment and Disposal Costs</b>																
E3a.16	Estimated direct operating cost		£m	I/C	0	0.659	1.893	0.875	0	0	0	1.179	0	0	1.279	0.402
E3a.17	Rates paid by the PPP contractor		£m	I/C	0	0.096	0.248	0.246	0	0	0	0.114	0	0	0.165	0.096
E3a.18	SEPA charges paid by the PPP contractor		£m	I/C	0	0	0	0	0	0	0	0	0	0	0.003	0.003
E3a.19	Total direct cost		£m	C	0	0.755	2.141	1.121	0	0	0	1.293	0	0	1.447	0.501
E3a.20	Scottish Water general & support expenditure		£m	I/C	0	0.024	0.039	0.011	0	0	0	0.063	0	0	0.046	0.006
E3a.21	Scottish Water SEPA charges		£m	I/C	0	0	0	0	0	0	0	0	0	0	0	0
E3a.22	Total sludge treatment & disposal cost		£m	C	0	0.779	2.18	1.132	0	0	0	1.356	0	0	1.493	0.507
<b>Total Cost Analysis</b>																
E3a.23	Total direct cost		£m	C	0.562	2.135	5.375	2.754	0.841	0.573	0.598	2.069	0.599	0.55	7.166	1.324
E3a.24	Total Scottish Water cost		£m	C	0.006	0.068	0.098	0.208	0.01	0.007	0.006	0.102	0.007	0.009	0.226	0.015
E3a.25	Total operating cost		£m	C	0.568	2.203	5.473	2.962	0.851	0.58	0.604	2.171	0.606	0.559	7.392	1.339
E3a.26	Annual charge		£m	I/C	2.876	5.105	19.56	4.671	2.273	1.636	1.828	4.068	2.939	3.18	14.642	2.112
E3a.27	Public sector capital equivalent value		£m	I	15.959	51.523	138.345	76.279	18.525	15.256	18.525	33.871	25	21.774	60.014	8.686
<b>Contract Information</b>																
E3a.28	Contract period		years	I	25	25	30	30	30	30	30	30	30	30	30	30
E3a.29	Contract end date		dd/mm/yy	I	#####	#####	15/12/2029	04/05/2030	04/05/2030	04/05/2030	04/05/2030	25/06/2031	#####	25/06/2031	30/11/2029	30/11/2029

Prepared by: John Telfer..... Date: 17/06/05.....  
 Checked by: Brian Strathie..... Date: 17/06/05.....  
 Authorised by: Douglas Millican..... Date: 17/06/05.....







ANNUAL RETURN INFORMATION REQUIREMENT

**SECTION E : OPERATING COSTS AND EFFICIENCY**  
**Table E4: Water Explanatory Factors - Resources and Treatment**

Line Ref.	Description	Ofwat Ref	Units	Field Type
<b>Source Types</b>				
E4.0	Area Name	-	-	I
E4.1	Impounding reservoirs	T12, L1	nr, ml/d	I/C
E4.2	Lochs	-	nr, ml/d	I/C
E4.3	River and burn abstractions	T12, L2	nr, ml/d	I/C
E4.4	Boreholes	T12, L3	nr, ml/d	I/C
E4.5	Total	-	nr, ml/d	C
E4.6	Raw water exports	-	nr, ml/d	I/C
E4.7	Raw water imports	-	nr, ml/d	I/C

Number of Own Sources						Total Sources	Own Source Outputs						Total Source Outputs
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6		Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	
number						number	average daily output (Ml/d)						Ml/d
NW	NE	SE	SW			NW	NE	SE	SW				
62	20	34	74			190	81.2	184.8	344.4	1062.7			
82	1	6	2			91	54.9	0.3	4.5	9.6			
102	27	43	97			269	21	218.8	7.6	324.9			
40	29	22	9			100	23.9	11.8	24.7	3			
286	77	105	182	0	0	650	181	415.7	381.2	1400.2	0	0	
0	0	0	0			0	0	0	0	0			
0	0	0	0			0	0	0	0	0			

E4.8	Impounding reservoirs	-	nr	C
E4.9	Lochs	-	nr	C
E4.10	River and burn abstractions	-	nr	C
E4.11	Boreholes	-	nr	C
E4.12	Total	-	nr	C

Proportional Breakdown of Source output produced						Proportion of Own Source Output
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	
0.03	0.08	0.14	0.45	0.00	0.00	0.70
0.02	0.00	0.00	0.00	0.00	0.00	0.03
0.01	0.09	0.00	0.14	0.00	0.00	0.24
0.01	0.00	0.01	0.00	0.00	0.00	0.03
0.08	0.17	0.16	0.59	0.00	0.00	1.00

Peak demand and Pumping Head				
E4.13	Peak demand - peak to average ratio	T12, L5	nr	I
E4.14	Average pumping head - resources and treatment	T12, L6	m	I
E4.15	Not in use			
E4.16	Not in use			

Peak Ratio & Pumping Head						Average Peak Ratio	Average Pumping Head
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6		
1.059	1.0592	1.0733	1.0593			1.029	21.7
16	26.5	11.5	23.8				

Water Treatment Works by ProcessType				
E4.17	Simple Disinfection	-	nr, ml/d	I/C
E4.18	W1	-	nr, ml/d	I/C
E4.19	W2	-	nr, ml/d	I/C
E4.20	W3	-	nr, ml/d	I/C
E4.21	W4	-	nr, ml/d	I/C
E4.22	Total numbers of works	T12, L17	nr, ml/d	C
E4.23	Total distribution input	T12, L16	nr, ml/d	C

Number of Own Works						Total Nr of Works	Volume of Distribution Input Produced						Total volume Dist'n input
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6		Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	
56	13	20	7			96	18.9	9.6	27.3	349.4			
80	2	6	5			93	10.5	0.4	63.5	16.1			
49	12	7	5			73	86.4	185.6	140.3	420.1			
41	13	14	38			106	65.1	220	150.1	614.6			
0	0	0	0			0	0	0	0	0			
226	40	47	55	0	0	368	180.9	415.6	381.2	1400.2	0	0	

E4.24	Simple Disinfection	-	nr	C
E4.25	W1	-	nr	C
E4.26	W2	-	nr	C
E4.27	W3	-	nr	C
E4.28	W4	-	nr	C
E4.29	Total	-	nr	C

Proportional Breakdown of Distribution Input						Tot. prop'n of D.I.
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	
0.01	0.00	0.01	0.15	0.00	0.00	0.17
0.00	0.00	0.03	0.01	0.00	0.00	0.04
0.04	0.08	0.06	0.18	0.00	0.00	0.35
0.03	0.09	0.06	0.26	0.00	0.00	0.44
0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.08	0.17	0.16	0.59	0.00	0.00	1.00

Water Treatment Works by Size Band				
E4.30	Size band <=1 Ml/d	-	nr	I/C
E4.31	Size band >1 - <=2.5 Ml/d	-	nr	I/C
E4.32	Size band >2.5 - <=5 Ml/d	-	nr	I/C
E4.33	Size band >5 - <=10 Ml/d	-	nr	I/C
E4.34	Size band >10 - <=25 Ml/d	-	nr	I/C
E4.35	Size band >25 - <=50 Ml/d	-	nr	I/C
E4.36	Size band >50 - <=100 Ml/d	-	nr	I/C
E4.37	Size band >100 - <=175 Ml/d	-	nr	I/C
E4.38	Size band >175 Ml/d	-	nr	I/C
E4.39	Total numbers of works	-	nr	C
E4.40	Proportion of distribution input - total	-	nr	C

Number of Own Works						Total Nr of Works	Proportional Breakdown of Distribution						Tot. prop'n of D.I.
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6		Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	
190	12	15	18			235	0.013	0.001	0.001	0.001			
10	9	5	2			26	0.005	0.003	0.003	0			
10	7	10	4			31	0.01	0.006	0.01	0.004			
8	1	4	7			20	0.01	0.001	0.009	0.014			
6	4	7	13			30	0.02	0.022	0.028	0.067			
2	3	4	2			11	0.019	0.041	0.052	0.026			
0	4	1	4			9	0	0.1	0.025	0.089			
0	0	1	3			4	0	0	0.032	0.136			
0	0	0	2			2	0	0	0	0.252			
226	40	47	55	0	0	368	0.077	0.174	0.16	0.589	0	0	

Bulk Imports and Exports				
E4.41	Bulk Imports from other Agencies	-	Ml/d	I/C
E4.42	Bulk Exports to other Agencies	-	Ml/d	I/C
E4.43	Internal Imports from other resource areas	-	Ml/d	I/C
E4.44	Internal Exports to other resource areas	-	Ml/d	I/C
E4.45	Net change in volume	-	Ml/d	C
E4.46	Distribution input within area	-	Ml/d	C

Treated Water Transfers						Total
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	
0	0	0	0			0
0	0	0	0			0
0	21.52	43.19	0			64.71
5	0	0	59.71			64.71
-5	21.52	43.19	-59.71	0	0	0
176	437.22	424.39	1340.5	0	0	2378.1

net internal change should be zero

Costs				
E4.47	Works size band <= 1 Ml/d	-	£000	I/C
E4.48	Works size band >1 to <= 2.5 Ml/d	-	£000	I/C
E4.49	Works size band >2.5 to <=5 Ml/d	-	£000	I/C
E4.50	Works size band >5 to <=10 Ml/d	-	£000	I/C
E4.51	Works size band >10 to <=25 Ml/d	-	£000	I/C
E4.52	Sub-total small treatment works	-	£000	C
E4.53	Works size band >25 to <=50 Ml/d	-	£000	I/C
E4.54	Works size band >50 to <=100 Ml/d	-	£000	I/C
E4.55	Works size band >100 to <=175 Ml/d	-	£000	I/C
E4.56	Works size band > 175 Ml/d	-	£000	I/C
E4.57	Sub-total large treatment works	-	£000	C
E4.58	Total numbers of works	-	£000	C

Operating cost by area						Total
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	
4936	411	212	493			6052
578	493	172	203			1446
855	730	678	428			2691
1219	222	691	1346			3478
881	1432	1718	3776			7807
8469	3288	3471	6246	0	0	21474
1175	2062	2403	873			6513
0	2649	198	2196			5043
0	0	464	3386			3850
0	0	0	2822			2822
1175	4711	3065	9277	0	0	18228
9644	7999	6536	15523	0	0	39702

\* This reference refers to JR00 whereas all other lines refer to JR01.

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**SECTION E : OPERATING COSTS AND EFFICIENCY**  
**Table E4: Water Explanatory Factors - Resources and Treatment**

Line Ref.	Description	Ofwat Ref	Units	Field Type
-----------	-------------	-----------	-------	------------

Source Types				
E4.0	Area Name	-	-	I
E4.1	Impounding reservoirs	T12, L1	nr, m <sup>3</sup> /d	I/C
E4.2	Lochs	-	nr, m <sup>3</sup> /d	I/C
E4.3	River and burn abstractions	T12, L2	nr, m <sup>3</sup> /d	I/C
E4.4	Boreholes	T12, L3	nr, m <sup>3</sup> /d	I/C
E4.5	Total	-	nr, m <sup>3</sup> /d	C
E4.6	Raw water exports	-	nr, m <sup>3</sup> /d	I/C
E4.7	Raw water imports	-	nr, m <sup>3</sup> /d	I/C

Peak demand and Pumping Head				
E4.13	Peak demand - peak to average ratio	T12, L5	nr	I
E4.14	Average pumping head - resources and treatment	T12, L6	m	I
E4.15	Not in use			
E4.16	Not in use			

Water Treatment works by Process type				
E4.17	Simple Disinfection	-	nr, m <sup>3</sup> /d	I/C
E4.18	W1	-	nr, m <sup>3</sup> /d	I/C
E4.19	W2	-	nr, m <sup>3</sup> /d	I/C
E4.20	W3	-	nr, m <sup>3</sup> /d	I/C
E4.21	W4	-	nr, m <sup>3</sup> /d	I/C
E4.22	Total numbers of works	T12, L17	nr, m <sup>3</sup> /d	C
E4.23	Total distribution input	T12, L16	nr, m <sup>3</sup> /d	C

**Issues with data**

E4.12 should equal 1.0  
E4.22 (Col 100) should equal E4.39 (Col 100)  
E4.29 should equal 1.0  
E4.40 should equal 1.0  
E4.45 should equal 0

**Problem ?**

N 100  
N 100  
N 100  
N 200  
N 100

**Solution**

No solution required  
No solution required  
No solution required  
No solution required  
No solution required

\* This reference refers to JR00 whereas all other lines refer to JR01.

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Edition 2

220  
**Total Source Outputs**

Comment Necessary Y/N	Comment
-----------------------	---------

Comment Necessary Y/N	Comment	General		Benchmarking A1		Benchmarking A2	
		A1	G	A1	G	A1	G
N	Consistent with Distribution Input as reported in A2: A4	A2	G	A2	N	A2	G
N	Consistent with Distribution Input as reported in A2: AX	A3	G	A3	N	A3	N
N	Consistent with Distribution Input as reported in A2: B2	A4	N	A4	N	A4	N
N	Consistent with Distribution Input as reported in A2: B3	A5	G	AX	G	AX	G
N	Consistent with Distribution Input as reported in A2: B4	B2	N	B2	N	B2	N
N	Consistent with Distribution Input as reported in A2: B4	B3	N	B3	N	B3	N
N	Consistent with Distribution Input as reported in A2: B4	B4	N	B4	N	B4	N
N		BX	G	BX	N	BX	N
N		C2	N	C2	N	C2	N
N		C3	N	C3	N	C3	N
N		C4	N	C4	N	C4	N
N		C5	N	C5	N	C5	N
N		CX	N	CX	N	CX	N
N		M	N	M	N	M	N
N		N	N	N	N	N	N
N		D3	N	D3	N	D3	N
N		D4	N	D4	N	D4	N
N		D5	N	D5	N	D5	N
N		D6	N	D6	N	D6	N
N		DX	N	DX	N	DX	N

120  
**Average Peak Ratio**

Comment Necessary Y/N	Comment
-----------------------	---------

N 120 Pumping head data no

170  
**Average Pumping Head**

Comment Necessary Y/N	Comment
-----------------------	---------

N Consistent with Distribution Input as reported in A2: DX

220  
**Total volume Dist'n input MI/d**

Comment Necessary Y/N	Comment
-----------------------	---------

N Consistent with Distribution Input as reported in A2:38  
N Consistent with Distribution Input as reported in A2:38  
N Consistent with Distribution Input as reported in A2:38  
N Consistent with Distribution Input as reported in A2:38  
N Consistent with Distribution Input as reported in A2:38  
N Consistent with Distribution Input as reported in A2:38  
N Consistent with Distribution Input as reported in A2:38



ANNUAL RETURN INFORMATION REQUIREMENT

**SECTION E : OPERATING COSTS AND EFFICIENCY**  
**Table E5: Large Water Treatment Works Information Database**

For treatment works with a capacity greater than 25 MI/d

Line Ref.	Description	Ofwat Ref	Units	Field Type	10		20		30		40		50		60		70		80		90		100		110		120		
					Comment Necessary	Comment	Comment Necessary																						
					Y/N		Y/N		Y/N		Y/N		Y/N		Y/N		Y/N		Y/N		Y/N		Y/N		Y/N		Y/N		
<b>Works Size</b>																													
E5.0	Name	-		I																									
E5.1	Average day demand	-	Ml/d	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.2	Peak day demand	-	Ml/d	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.3	Works Capacity	-	Ml/d	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.4	Headroom	-	Ml/d	C	N			N		N		N		N		N		N		N		N		N		N		N	
<b>Raw Water Source</b>																													
E5.5	Source type	-	Type	I	N	#N/A																							
E5.6	Average turbidity	-	ntu	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.7	Peak turbidity	-	ntu	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.8	Average colour	-	hazen	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.9	Peak colour	-	hazen	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.10	Average parameter 'a'	-		I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.11	Peak parameter 'a'	-		I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.12	Average parameter 'b'	-		I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.13	Peak parameter 'b'	-		I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.14	Cryptosporidium risk assessment	-	high/med/low	I	N			N		N		N		N		N		N		N		N		N		N		N	
<b>Compliance and Performance</b>																													
E5.15	Coliform: samples exceeding compliance value	-	%	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.16	Turbidity: samples exceeding threshold value	-	%	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.17	THM: samples exceeding threshold value	-	%	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.18	Aluminium: samples exceeding threshold value	-	%	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.19	Iron: samples exceeding threshold value	-	%	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.20	Manganese: samples exceeding threshold value	-	%	I	N			N		N		N		N		N		N		N		N		N		N		N	
<b>Processes</b>																													
E5.21	Simple disinfection only	-	1/0	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.22	Simple disinfection and filtration (W1)	-	1/0	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.23	Single stage physical or chemical treatment (W2)	-	1/0	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.24	More than one stage of treatment excl W4 (W3)	-	1/0	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.25	Complex treatment, including Microfiltration (W4)	-	1/0	I	N			N		N		N		N		N		N		N		N		N		N		N	
<b>Miscellaneous Data</b>																													
E5.26	Intake works on site	-	1/0	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.27	Raw water pumping on site	-	1/0	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.28	Treated water pumping on site	-	1/0	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.29	Waterworks own sludge treatment on site	-	1/0	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.30	Waterworks sludge discharged off site	-	1/0	I	N			N		N		N		N		N		N		N		N		N		N		N	
<b>Works Cost</b>																													
E5.31	Employment direct costs	-	£'000	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.32	Power direct costs	-	£'000	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.33	Hired and contracted services direct costs	-	£'000	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.34	Materials and consumables direct costs	-	£'000	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.35	Service charges SEPA direct costs	-	£'000	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.36	Other direct costs	-	£'000	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.37	Total direct costs	-	£'000	C	N			N		N		N		N		N		N		N		N		N		N		N	
E5.38	General and support expenditure	-	£'000	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.39	Functional Expenditure	-	£'000	C	N			N		N		N		N		N		N		N		N		N		N		N	
E5.40	Estimated intake and raw water pumping direct costs	-	£'000	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.41	Estimated treated water pumping direct costs	-	£'000	I	N			N		N		N		N		N		N		N		N		N		N		N	
E5.42	Estimated waterworks sludge direct costs	-	£'000	I	N			N		N		N		N		N		N		N		N		N		N		N	

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**SECTION E : OPERATING COSTS AND EFFICIENCY**  
**Table E6a: Water Explanatory Factors - Distribution**

Line Ref.	Description	Ofwat Ref CMR 02	Units	Field Type	10	20	30	40	50	60	199				
					Report Year-1 2003-04										
					Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Total				
<b>Area Data</b>															
<b>Name</b>															
E6.0	Name	-		I											
E6.1	Annual average resident connected population	-	000	I/C							0				
E6.2	Total connected properties	-	000	I/C							0				
E6.3	Volume of water delivered to households	-	MI/d	I/C							0				
E6.4	Volume of water delivered to non-households	-	MI/d	I/C							0				
E6.5	Area	-	km 2	I/C							0				
E6.6	Not in use														
E6.7	Number of supply zones	-	nr	I/C							0				
<b>Water main data</b>															
E6.8	Total length of mains	-	km	I/C							0				
E6.9	Total length of unlined iron mains	-	km	I/C							0				
E6.10	Total length of mains > 300mm diameter	-	km	I/C							0				
E6.11	Water mains bursts	-	nr	I/C							0				
E6.12	Leakage level	-	MI/d	I/C							0				
E6.13	Properties reported for low pressure	-	nr	I/C							0				
<b>Pumping Stations</b>															
E6.14	Total number of pumping stations	-	nr	I/C							0				
E6.15	Total capacity of pumping stations	-	m3/d	I/C							0				
E6.15a	Total capacity of booster pumping stations	CM3, L18	Kw	I/C							0				
E6.16	Average pumping head	-	nr	I											
<b>Service Reservoirs</b>															
E6.17	Total number of service reservoirs	CM3, L13	nr	I/C							0				
E6.18	Total capacity of service reservoirs	CM3, L14	MI	I/C							0				
<b>Water Towers</b>															
E6.19	Total number of water towers	CM3, L15	nr	I/C							0				
E6.20	Total capacity of water towers	CM3, L16	MI	I/C							0				

Note: Water Distribution costs are reported on Table E1

Prepared by: ..... Date: .....

Checked by: ..... Date: .....

Authorised by: ..... Date: .....

ANNUAL RETURN INFORMATION REQUIREMENT

**SECTION E : OPERATING COSTS AND EFFICIENCY**  
**Table E6b: Water Explanatory Factors - Distribution**

Line Ref.	Description	Ofwat Ref CMR 02	Units	Field Type	10	20	30	40	50	60	199
					Report Year 2004-05						Total
Area Data					Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Total
Name					CG	CG	CG	CG	CG	CG	CG
E6.0	Name	-		I							
E6.1	Annual average resident connected population	-	000	I/C	356.64 B2	1135.04 B2	1009.65 B2	2411.26 B2			4912.59 B2
E6.2	Total connected properties	-	000	I/C	195 B2	577 B2	509 B2	1188 B2			2469 B2
E6.3	Volume of water delivered to households	-	MI/d	I/C	62.09 C4	196.16 C4	174.76 C4	418.55 C4			851.56 B3
E6.4	Volume of water delivered to non-households	-	MI/d	I/C	32.54 B2	95.08 B2	87.04 B2	294.09 B2			508.75 B2
E6.5	Area	-	km 2	I/C	38868 A1	16918 A1	13205 A1	10985 A1			79976 A1
E6.6	Not in use										
E6.7	Number of supply zones	-	nr	I/C	204 A1	38 A1	55 A1	77 A1			374 A1
<b>Water main data</b>											
E6.8	Total length of mains	-	km	I/C	9970 A2	11710 A2	9442 A2	15665 A2			46787 A2
E6.9	Total length of unlined iron mains	-	km	I/C	1262 B3	3112 B3	4576 B3	8394 B3			17344 B3
E6.10	Total length of mains > 300mm diameter	-	km	I/C	280 A2	1387 A2	1045 A2	2500 A2			5212 A2
E6.11	Water mains bursts	-	nr	I/C	1590 A4	1379 A4	2123 A4	5010 A4			10102 A3
E6.12	Leakage level	-	MI/d	I/C	89.12 C4	175.78 C4	185.73 C4	688.67 C4			1139.3 C4
E6.13	Properties reported for low pressure	-	nr	I/C	2606 C4	3751 C4	1779 C4	3703 C4			11839 C4
<b>Pumping Stations</b>											
E6.14	Total number of pumping stations	-	nr	I/C	215 B2	131 B2	83 B2	138 B2			567 B2
E6.15	Total capacity of pumping stations	-	m3/d	I/C	864971 C4	610581 C4	54358 C4	1501681 C4			3031591 C4
E6.15a	Total capacity of booster pumping stations	CM3, L18	Kw	I/C	9412 B4	20872 B4	620 B4	22421 B4			53325 B4
E6.16	Average pumping head	-	nr	I	23.28 C4	57.49 C4	3.29 C4	37.76 C3			34.58 C4
<b>Service Reservoirs</b>											
E6.17	Total number of service reservoirs	CM3, L13	nr	I/C	621 B2	436 B2	224 B2	351 B2			1632 B2
E6.18	Total capacity of service reservoirs	CM3, L14	MI	I/C	376.34 B4	1388.44 B4	527.88 B4	1871.25 B4			4163.91 B4
<b>Water Towers</b>											
E6.19	Total number of water towers	CM3, L15	nr	I/C	8 B2	5 B2	0 A1	11 B2			24 B2
E6.20	Total capacity of tower towers	CM3, L16	MI	I/C	10.54 B2	0.87 B2	0 A1	25.04 B2			36.45 B2

Note: Water Distribution costs are reported on Table E1

Prepared by: Michael Breingan..... Date: 17/06/05.....  
 Checked by: Bill Nicholls..... Date: 17/06/05.....  
 Authorised by: Geoff Aitkenhead..... Date: 17/06/05.....

Edition 2

ANNUAL RETURN INFORMATION REQUIREMENT

**SECTION E : OPERATING COSTS AND EFFICIENCY**  
**Table E6b: Water Explanatory Factors - Distribution**

Line Ref.	Description	Ofwat Ref	Units	Field Type
		CMR 02		

199	
Report Year	
2004-05	

Comment Necessary	Comment
Y/N	

Area Data		Name	
E6.0	Name	-	I
E6.1	Annual average resident connected population	-	000 I/C
E6.2	Total connected properties	-	000 I/C
E6.3	Volume of water delivered to households	-	Ml/d I/C
E6.4	Volume of water delivered to non-households	-	Ml/d I/C
E6.5	Area	-	km 2 I/C
E6.6	Not in use	-	
E6.7	Number of supply zones	-	nr I/C

Water main data			
E6.8	Total length of mains	-	km I/C
E6.9	Total length of unlined iron mains	-	km I/C
E6.10	Total length of mains > 300mm diameter	-	km I/C
E6.11	Water mains bursts	-	nr I/C
E6.12	Leakage level	-	Ml/d I/C
E6.13	Properties reported for low pressure	-	nr I/C

Pumping Stations			
E6.14	Total number of pumping stations	-	nr I/C
E6.15	Total capacity of pumping stations	-	m3/d I/C
E6.15a	Total capacity of booster pumping stations	CM3, L18	Kw I/C
E6.16	Average pumping head	-	nr I

Service Reservoirs			
E6.17	Total number of service reservoirs	CM3, L13	nr I/C
E6.18	Total capacity of service reservoirs	CM3, L14	Ml I/C

Water Towers			
E6.19	Total number of water towers	CM3, L15	nr I/C
E6.20	Total capacity of water towers	CM3, L16	Ml I/C

General	
A1	G
A2	G
A3	G
A4	N
AX	G
B2	G
B3	G
B4	N
BX	G
C2	N
C3	N
C4	N
C5	N
CX	N
M	N
N	N
D3	N
D4	N
D5	N
D6	N
DX	N

Water Balance components must reconcile  
Calculation from low confidence grade data.

Extrapolation exercise to fill data gaps. All ca  
Extrapolation exercise to fill data gaps. All ca  
Extrapolation exercise or estimated data. All DX

Extrapolation exercise to fill data gaps. All capacities not yet held within corporate data set

Issues with data	Problem ?	Solution
E6.13 should equal B2.9	N	199
E6.3 should equal A2.1+A2.5	Y	199
E6.2 should equal A1.69	Y	199
E6.1 should equal A1.71	Y	199

**No solution required**  
**Please amend numbers so they reconcile**  
**Please amend numbers so they reconcile**  
**Please amend numbers so they reconcile**

Note: Water Distribution costs are reported on Table E1

Prepared by: Michael Breingan.....	Date: 17/06/05.....
Checked by: Bill Nicholls.....	Date: 17/06/05.....
Authorised by: Geoff Aitkenhead.....	Date: 17/06/05.....

Edition 2

ANNUAL RETURN INFORMATION REQUIREMENT

**SECTION E : OPERATING COSTS AND EFFICIENCY**  
**Table E7: Wastewater Explanatory Factors - Sewerage**

Line Ref.	Description	Ofwat Ref	Units	Field Type	10	20	30	40	50	60	70	80	199
					Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	Total
					CG	CG	CG	CG	CG	CG	CG	CG	CG
<b>Area Data</b>					<b>Name</b>								
E7.0	Name	-	000	I									
E7.1	Annual average resident connected population	T17a, L1	000	I/C	276.9	1067.4	974.7	2330.3					4649.300
E7.2	Annual average non- resident connected population	T17a, L2	000	I/C	26.9	35.4	28.6	29.6					120.5
E7.3	Volume of sewage collected (daily average)	T17a, L3	M/d	I/C	368	885	750	2098					4101
E7.4	Total connected properties	T17a, L4	nr	I/C	146396	555248	504262	1169571					2375477
E7.5	Area of Sewerage District	T17a, L5	km <sup>2</sup>	I/C	38672	16848	13161	10927					79608
E7.6	Drained Area	T17a, L6	km <sup>2</sup>	I/C	159	376	287	741					1563
E7.7	Annual Precipitation	T17a, L8	mm	I	2130	1376	1325	1812					1661
<b>Sewerage Data</b>													
E7.8	Total length of sewer	T17a, L9	km	I/C	4609	11407	10135	22137					48288
E7.9	Total length of lateral sewer	-	km	I/C	975	3698	3358	7789					15820
E7.10	Length of combined sewer	T17a, L11	km	I/C	1763	3814	3268	8001					16846
E7.11	Length of separate stormwater sewer	T17a, L12	km	I/C	742	1934	1881	3373					7930
E7.12	Length of sewer > 1000 mm diameter	T17a, L13	km	I/C	18	160	197	402					777
E7.13	Length of Critical Sewer	T17a, L14	km	I/C	1090	2513	2259	4733					10595
E7.14	Sewer Collapses	T17a, L15	nr	I/C	202	536	662	1340					2740
<b>Pumping Stations</b>													
E7.15	Total number of pumping stations	T17a, L16	nr	I/C	505	625	263	427					1820
E7.16	Total capacity of pumping stations (m <sup>3</sup> /d)	T17a, L17	m <sup>3</sup> /d	I/C	2594903	3369559	2400184	5553285					13917931
E7.16a	Total capacity of pumping stations (kw)	CM6, L6	Kw	I/C	13251	23351	8251	30255					75108
E7.17	Average pumping head	T17a, L18	m	I	7.2	17.9	10.3	19.4					15
E7.18	Total number of combined pumping stations	T17a, L19	nr	I/C	316	368	178	266					1128
E7.19	Total capacity of combined pumping stations	T17a, L20	m <sup>3</sup> /d	I/C	1908431	2332587	2136047	4612226					10989291
E7.20	Total number of stormwater pumping stations	T17a, L21	nr	I/C	21	13	0	2					36
E7.21	Total capacity of stormwater pumping stations	T17a, L22	m <sup>3</sup> /d	I/C	243148	239284	0	149762					632194
E7.22	Number of combined sewer overflows	T17a, L23	nr	I/C	722	1080	706	1517					4025
E7.23	Number of combined sewer overflows (screened)	T17a, L24	nr	I/C	146	263	147	248					804

Note: Sewerage costs are reported on Table E2

Prepared by: Michael Breingan..... Date: 17/06/05.....  
 Checked by: Bill Nicholls..... Date: 17/06/05.....  
 Authorised by: Geoff Aitkenhead..... Date: 17/06/05.....

**SECTION E : OPERATING COSTS AND EFFICIENCY**  
**Table E7: Wastewater Explanatory Factors - Sewerage**

Line Ref.	Description	O/wat Ref	Units	Field Type	10		20		30		40		50		60		70		80		199																																											
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Note: Sewerage costs are reported on Table E2

Prepared by: Michael Breingan.....Date: 11/10/05  
 Checked by: Bill Nicholls.....Date: 11/10/05  
 Authorised by: Geoff Aitkenhead.....Date: 11/10/05

Edition 2

ANNUAL RETURN INFORMATION REQUIREMENT

SECTION E : OPERATING COSTS AND EFFICIENCY  
Table E8: Wastewater Explanatory Factors - Sewage Treatment Works

Line Ref.	Description	Ofwat Ref	Units	Field Type	10	20	30	40	50	60	70	80	90	100	110	199							
					Treatment Category														Total				
					Septic Tanks	Primary		Sec Activated Sludge	CG	Sec biological	CG	TertiaryA1	CG	Tertiary A2	CG	Tertiary B1	CG	Tertiary B2	CG	Sea Preliminary	CG	Sea Screened	CG
<b>Numbers</b>																							
E8.1	Size Band 0	-	nr	I/C	994	18	10	75	3	1	8	1	1	0	84	1195							
E8.2	Size Band 1	T17c, L1	nr	I/C	120	13	27	53	3	0	9	1	1	0	47	274							
E8.3	Size Band 2	T17c, L2	nr	I/C	56	11	15	39	2	2	9	2	2	1	12	151							
E8.4	Size Band 3	T17c, L3	nr	I/C	26	14	39	66	5	1	13	3	5	3	15	190							
E8.5	Size Band 4	T17c, L4	nr	I/C	3	10	50	39	5	1	7	1	9	9	3	137							
E8.6	Size Band 5	T17c, L5	nr	I/C	0	1	20	4	2	2	3	0	2	0	0	34							
E8.7	Size Band 6 (Large Works)	T17c, L6	nr	I/C	0	0	18	1	1	0	0	0	0	0	0	20							
E8.8	Total Sewage Treatment Works	T17c, L7	nr	C	1199	67	179	277	21	7	49	8	20	13	161	2001							
E8.9	Small Sewage treatment works with ammonia consent 5 - 10 mg/l	T17c, L8	nr	I/C	0	0	15	29	2	0	8	0	0	0	0	54							
E8.10	Small Sewage treatment works with ammonia consent <= 5 mg/l	T17c, L9	nr	I/C	1	0	10	11	8	3	2	2	0	0	0	37							

Line Ref.	Description	Units	Field Type	Loading (average daily load)																Total excluding Septic Tanks
				10	20	30	40	50	60	70	80	90	100	110	199					
E8.11	Size Band 0	-	kg BOD/day	I/C	1819	51	40	204	12	2	20	6	2	0	246	583				
E8.12	Size Band 1	T17d, L1	kg BOD/day	I/C	1249	128	262	624	37	0	96	11	17	0	562	1737				
E8.13	Size Band 2	T17d, L2	kg BOD/day	I/C	1225	319	340	885	42	43	210	49	31	21	332	2272				
E8.14	Size Band 3	T17d, L3	kg BOD/day	I/C	1420	938	2566	4725	352	121	702	210	274	228	919	11035				
E8.15	Size Band 4	T17d, L4	kg BOD/day	I/C	648	2502	15689	10843	1417	335	1745	164	2359	2596	836	38486				
E8.16	Size Band 5	T17d, L5	kg BOD/day	I/C	0	854	18808	2988	1899	1400	3217	0	1858	0	0	31024				
E8.17	Size Band 6 (large works)	T17d, L6	kg BOD/day	I/C	0	0	122400	4237	17377	0	0	0	0	0	0	144014				
E8.18	Total Load Received	T17d, L7	kg BOD/day	C	6361	4792	160105	24506	21136	1901	5990	440	4541	2845	2895	229151				
E8.19	Small Sewage treatment works with ammonia consent 5 - 10 mg/l	T17d, L8	kg BOD/day	I/C	0	0	5259	2678	507	0	1321	0	0	0	0	9765				
E8.20	Small Sewage treatment works with ammonia consent <= 5 mg/l	T17d, L9	kg BOD/day	I/C	1	0	2646	2427	909	1097	127	238	0	0	0	7444				

Line Ref.	Description	Units	Field Type	Compliance																Total
				10	20	30	40	50	60	70	80	90	100	110	199					
E8.21	Size Band 0	-	%	I	100	100	98.3	100	0	93.8	100	0	0	0	0	0				
E8.22	Size Band 1	T17e, L1	%	I/C	96.4	87.8	96.8	91.7	0	94.4	100	0	0	0	0					
E8.23	Size Band 2	T17e, L2	%	I/C	100	97.5	98.4	100	93.8	95.7	100	0	0	0	0					
E8.24	Size Band 3	T17e, L3	%	I/C	96	96.3	96.6	96.7	100	98.1	93.3	0	0	100						
E8.25	Size Band 4	T17e, L4	%	I/C	97.5	94.9	92.7	100	100	97.9	100	70	0							
E8.26	Size Band 5	T17e, L5	%	I/C	0	98.4	93.7	100	98	98.6	0	100	0							
E8.27	Size Band 6 (large works)	T17e, L6	%	I/C	0	97.5	100	100	0	0	0	0	0							
E8.28	Average compliance by works - all sizes	T17e, L7	%	I/C	98	95.6	96.4	98	97.2	96.5	95.7	100	70	100						
E8.29	Small Sewage treatment works with ammonia consent 5 - 10 mg/l	T17e, L8	%	I/C	0	97	97	100	0	97	0	0	0							
E8.30	Small Sewage treatment works with ammonia consent <= 5 mg/l	T17e, L9	%	I/C	0	97.6	90.2	94.8	99.4	93.5	100	0	0							

Line Ref.	Description	Units	Field Type	Costs																Total
				10	20	30	40	50	60	70	80	90	100	110	199					
E8.31	Direct costs for works in size band 0	-	£000	I/C	1079	41	151	602	51	4	57	11	0	0	41	2037				
E8.32	Direct costs for works in size band 1	-	£000	I/C	283	71	408	698	48	0	108	9	0	0	40	1665				
E8.33	Direct costs for works in size band 2	-	£000	I/C	200	62	304	538	31	44	120	22	1	0	29	1351				
E8.34	Direct costs for works in size band 3	-	£000	I/C	173	101	1089	1507	210	84	321	64	9	4	61	3623				
E8.35	Direct costs for works in size band 4	-	£000	I/C	37	287	2930	1718	331	79	492	62	72	83	29	6120				
E8.36	Direct costs for works in size band 5	-	£000	I/C	0	45	2478	347	280	197	327	0	18	0	0	3693				
E8.37	Direct costs for works in size band 6 (large works)	-	£000	I/C	0	0	5846	410	508	0	0	0	0	0	0	6764				
E8.38	Direct costs for all sewage treatment works	-	£000	C	1772	607	13207	5820	1459	408	1425	168	87	200	25253					
E8.39	General and support expenditure	-	£000	I/C	431	194	3477	1735	375	114	411	53	27	28	42	6887				
E8.40	Functional expenditure	-	£000	C	2203	801	16684	7555	1834	522	1836	127	115	242	32140					
E8.41	Power costs	-	£000	I/C	0	88	3879	734	572	101	268	24	12	1	3	5682				
E8.42	Service charges SEPA	-	£000	I/C	989	174	2323	1220	231	44	205	36	54	40	114	5430				

Prepared by: Michael Breingan..... Date: 17/06/05.....  
 Checked by: Bill Nicholls..... Date: 17/06/05.....  
 Authorised by: Geoff Aitkenhead..... Date: 17/06/05.....

SCOTTISH WATER

ANNUAL RETURN INFORMATION REQUIREMENT

**SECTION E : OPERATING COSTS AND EFFICIENCY**  
**Table E8: Wastewater Explanatory Factors - Sewage Treatment Works**

Line Ref.	Description	Ofwat Ref	Units	Field Type	10		20		30		40		50		60		70		80		90		100		110		199			
					Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment
<b>Septic Tanks</b>							<b>Primary</b>		<b>Sec Activated Sludge</b>		<b>Sec biological</b>		<b>Tertiary A1</b>		<b>Tertiary A2</b>		<b>Tertiary B1</b>		<b>Tertiary B2</b>		<b>Sea Preliminary</b>		<b>Sea Screened</b>		<b>Sea Unscreened</b>		<b>Total</b>			
<b>Numbers</b>																														
E8.1	Size Band 0	-	nr	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.2	Size Band 1	T17c, L1	nr	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.3	Size Band 2	T17c, L2	nr	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.4	Size Band 3	T17c, L3	nr	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.5	Size Band 4	T17c, L4	nr	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.6	Size Band 5	T17c, L5	nr	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.7	Size Band 6 (Large Works)	T17c, L6	nr	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.8	Total Sewage Treatment Works	T17c, L7	nr	C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.9	Small Sewage treatment works with ammonia consent 5 - 10 mg/l	T17c, L8	nr	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.10	Small Sewage treatment works with ammonia consent <= 5 mg/l	T17c, L9	nr	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
<b>Loading (average daily load)</b>																														
E8.11	Size Band 0	-	kg BOD/day	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.12	Size Band 1	T17d, L1	kg BOD/day	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.13	Size Band 2	T17d, L2	kg BOD/day	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.14	Size Band 3	T17d, L3	kg BOD/day	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.15	Size Band 4	T17d, L4	kg BOD/day	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.16	Size Band 5	T17d, L5	kg BOD/day	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.17	Size Band 6 (large works)	T17d, L6	kg BOD/day	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.18	Total Load Received	T17d, L7	kg BOD/day	C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.19	Small Sewage treatment works with ammonia consent 5 - 10 mg/l	T17d, L8	kg BOD/day	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.20	Small Sewage treatment works with ammonia consent <= 5 mg/l	T17d, L9	kg BOD/day	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
<b>Compliance</b>																														
E8.21	Size Band 0	-	%	I	#N/A		N		N		N		N		N		N		N		N		N		N		N		N	
E8.22	Size Band 1	T17e, L1	%	I/C	#N/A		N		N		N		N		N		N		N		N		N		N		N		N	
E8.23	Size Band 2	T17e, L2	%	I/C	#N/A		N		N		N		N		N		N		N		N		N		N		N		N	
E8.24	Size Band 3	T17e, L3	%	I/C	#N/A		N		N		N		N		N		N		N		N		N		N		N		N	
E8.25	Size Band 4	T17e, L4	%	I/C	#N/A		N		N		N		N		N		N		N		N		N		N		N		N	
E8.26	Size Band 5	T17e, L5	%	I/C	#N/A		N		N		N		N		N		N		N		N		N		N		N		N	
E8.27	Size Band 6 (large works)	T17e, L6	%	I/C	#N/A		N		N		N		N		N		N		N		N		N		N		N		N	
E8.28	Average compliance by works - all sizes	T17e, L7	%	I/C	#N/A		N		N		N		N		N		N		N		N		N		N		N		N	
E8.29	Small Sewage treatment works with ammonia consent 5 - 10 mg/l	T17e, L8	%	I/C	#N/A		N		N		N		N		N		N		N		N		N		N		N		N	
E8.30	Small Sewage treatment works with ammonia consent <= 5 mg/l	T17e, L9	%	I/C	#N/A		N		N		N		N		N		N		N		N		N		N		N		N	
<b>Costs</b>																														
E8.31	Direct costs for works in size band 0	-	£000	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.32	Direct costs for works in size band 1	-	£000	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.33	Direct costs for works in size band 2	-	£000	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.34	Direct costs for works in size band 3	-	£000	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.35	Direct costs for works in size band 4	-	£000	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.36	Direct costs for works in size band 5	-	£000	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.37	Direct costs for works in size band 6 (large works)	-	£000	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.38	Direct costs for all sewage treatment works	-	£000	C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.39	General and support expenditure	-	£000	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.40	Functional expenditure	-	£000	C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.41	Power costs	-	£000	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	
E8.42	Service charges SEPA	-	£000	I/C	N		N		N		N		N		N		N		N		N		N		N		N		N	

General  
A1 G  
A2 G  
A3 G  
A4 N  
AX G  
B2 G  
B3 G  
B4 N  
BX G  
C2 N  
C3 N  
C4 N  
C5 N  
CX N  
M N  
N N  
D3 N  
D4 N  
D5 N  
D6 N  
DX N

Issues with data	Problem ?	Solution
E8.18 should equal A4.34*(1000/365)	235512 235513	Please amend numbers if they do not reconcile

Prepared by: Michael Breingan..... Date: 11/10/05  
Checked by: Bill Nicholls..... Date: 11/10/05  
Authorised by: Geoff Aitkenhead..... Date: 11/10/05

Edition 3

ANNUAL RETURN INFORMATION REQUIREMENT

**SECTION E : OPERATING COSTS AND EFFICIENCY**  
**Table E9: Large Sewage Treatment Works Information Database**

Line Ref.	Description	Ofwat Ref	Units	Field Type	10	20	30	40	50	60	70	80	90	100	110	120	130	
					1	2	3	4	5	6	7	8	9	10	11	12	13	
<b>Works Size</b>					CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG
<b>Name</b>					Allers	Alloa	Ardoch	Carbarns	Dalderse	Daldowie	Dalmarnock	Dunfermline	Dunnswood	Erskine	Hamilton	Ironmill Bay	Kinneil Kerse	
E9.0	Name	-		I														
E9.1	Annual average resident connected population	T17b, L2	000	I	28.8	31.5	46.7	39.8	66.6	190.9	131.1	25.8	28.6	66.1	50.1	51.6	33.3	
E9.2	Annual average non-resident connected population	T17b, L3	000	I	0	0.4	0.6	0.1	0.6	0.8	0.7	0.2	0.2	0.3	0.3	0.8	0.1	
E9.3	Trade effluent load received by works	T17b, L4	kg/COD/day	I	2970	726	203	612	1695	6744	21521	482	183	1026	566	0	1742	
E9.4	Tanker load received by works	T17b, L5	kg/COD/day	I	0	2	675	0	117	877	0	0	0	0	0	0	0	
E9.5	Population equivalent of total load received	T17b, L6	000	I	50	40	61	49	93	290	360	41	35	77	65	60	51	
<b>Treatability</b>																		
E9.6	Biological Oxygen Demand (BOD5) of influent	T17b, L7	mg/l	I	138	119	4	58	130	80	96	107	176	0	99	152	109	
E9.7	Chemical Oxygen Demand (COD) of influent	T17b, L8	mg/l	I	332	379	32	151	466	211	259	308	442	0	224	414	302	
E9.8	Total Organic Carbon (TOC) of influent	T17b, L9	mg/l	I	0	0	0	0	0	0	0	0	0	0	0	0	0	
E9.9	Suspended solids (SS) of influent	T17b, L10	mg/l	I	0	0	0	0	0	0	0	139	0	0	0	206	197	
E9.10	Ammoniacal Nitrogen (NH3) of influent	T17b, L11	mg/l	I	0	0	0	0	0	0	0	17.7	0	0	0	24.1	19	
<b>Compliance</b>																		
E9.11	Suspended solids consent	T17b, L12	mg/l	I	30	0	40	30	0	30	30	0	15	30	35	0	0	
E9.12	BOD consent	T17b, L13	mg/l	I	20	25	25	15	20	15	25	25	10	20	25	25	25	
E9.13	COD consent	T17b, L14	mg/l	I	125	125	125	125	125	125	125	125	125	125	125	125	125	
E9.14	Ammonia consent	T17b, L15	mg/l	I	0	30	0	10	25	5	4	0	5	0	15	30	15	
E9.15	Phosphate consent	T17b, L16	mg/l	I	0	0	0	0	0	0	0	0	0	0	0	0	0	
E9.16	Compliance with effluent consent standard	T17b, L17	%	I	100	96.3	100	100	89.6	100	100	95.7	100	100	90.5	100	100	
<b>Flow</b>																		
E9.17	Average daily flow in dry weather	T17b, L18	Ml/d	I	5	18	33	21	33	0	89	27	10	41	25	11	16	
E9.18	Ratio of daily maximum to to minimum flow	T17b, L19	nr	I	2.5	3	3.2	1.5	8.1	0	1.25	2.6	1.4	0	2	2.6	3.3	
<b>Treatment Works Category</b>																		
E9.19	Primary	T17b, L20	1/0	I	1	1	1	1	1	1	1	1	1	1	1	1	0	
E9.20	Secondary activated sludge	T17b, L21	1/0	I	1	1	1	1	1	1	1	1	1	1	1	1	1	
E9.21	Secondary biological	T17b, L22	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	
E9.22	Tertiary A1	T17b, L23	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	
E9.23	Tertiary A2	T17b, L24	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	
E9.24	Tertiary B1	T17b, L25	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	
E9.25	Tertiary B2	T17b, L26	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Miscellaneous Data</b>																		
E9.26	Distance to next works	T17b, L27	km	I	4	5	2	2	5	3	4	1	5	2	2	2	3	
E9.27	Sea outfalls at works	T17b, L28	1/0	I	0	0	1	0	0	0	0	1	0	0	0	0	1	
E9.28	Terminal Pumping costs	T17b, L29	1/0	I	0	0	1	0	0	0	1	0	0	0	0	0	0	
E9.29	Own sludge	T17b, L30	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	
E9.30	Own sludge costs	T17b, L31	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	
E9.31	Sludge centre	T17b, L32	1/0	I	0	0	0	0	1	0	0	1	0	0	0	0	1	
E9.32	Sludge centre costs	T17b, L33	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Works Cost</b>																		
E9.33	Employment costs	-	£'000	I	75	50	79	61	56	75	193	54	81	148	101	40	37	
E9.34	Power costs	T17b, L35	£'000	I	35	113	69	95	87	306	377	80	64	59	65	27	86	
E9.35	Hired and contracted services	-	£'000	I	5	17	5	1	30	10	16	10	11	5	22	0	11	
E9.36	Materials and consumables	-	£'000	I	4	11	30	27	45	22	27	55	19	0	40	8	27	
E9.37	Service charges SEPA	-	£'000	I	36	32	29	40	146	92	79	16	0	50	22	16	158	
E9.38	Other direct costs	-	£'000	I	0	0	4	0	11	2	1	103	1	1	3	0	0	
E9.39	Total direct costs	T17b, L34	£'000	C	155	223	216	224	375	507	693	318	175	263	253	91	319	
E9.40	General and support expenditure	T17b, L37	£'000	I	36	51	48	52	90	118	161	68	39	60	57	31	105	
E9.41	Functional Expenditure	T17b, L38	£'000	C	191	274	264	276	465	625	854	386	214	323	310	122	424	
E9.42	Estimated terminal pumping station costs	T17b, L39	£'000	I	0	0	7	0	0	0	60	0	0	0	0	0	0	
E9.43	Estimated sludge costs	T17b, L40	£'000	I	0	0	0	0	0	0	0	0	0	0	0	0	0	

Prepared by: Michael Breingan.....Date: 11/10/05  
 Checked by: Bill Nicholls.....Date: 11/10/05  
 Authorised by: Geoff Aitkenhead.....Date: 11/10/05

	140	150	160	170	180	190	200
CG	14	15	16	17	18	19	20
	Kirkcaldy	Laighpark (Paisley)	Perth	Philipshill	Sheildhall	Stirling	Troqueer
B3	48.7 B3	101.5 B3	48 B3	43.1 B3	335.2 B3	44.2 B3	25.2 B3
B3	0.7 B3	0.5 B3	1.3 B3	0.4 B3	1.3 B3	1 B3	1 B3
B4	1907 B4	11954 B4	1049 B4	2070 B4	21375 B4	887 B4	317 B4
B4	0 B4	0 B4	18918 B4	0 B4	6400 B4	118 B4	12499 B4
B3	71 B3	198 B3	92 B3	84 B3	574 B3	60 B3	50 B3
A2	131 A2	108 A2	214 A2	137 A2	91 A2	167 A2	71 A2
A2	358 A2	294 A2	792 A2	304 A2	227 A2	424 A2	213 A2
N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
A2	157 A2	0 N	0 N	0 N	0 N	0 N	73 A2
A2	0 N	0 N	0 N	0 N	0 N	0 N	20 A2
N	0 N	30 A1	0 N	15 A1	30 A1	0 N	30 A1
A1	25 A1	15 A1	25 A1	10 A1	20 A1	25 A1	20 A1
A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1
A1	0 N	20 A1	30 A1	30 A1	20 A1	0 N	0 N
N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
A1	100 A1	97 A1	100 A1	88.9 A1	97.3 A1	100 A1	100 A1
B3	18 B3	0 N	21 B3	24 B3	0 N	22 B3	7.3 B3
B3	2.9 B3	0 N	2.4 B3	1.5 B3	0 N	5.8 B3	2.4 B3
A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1
A1	0 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1
A1	1 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1
A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1
A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1
A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1
B2	5 B2	2 B2	4 B2	4 B2	5 B2	5 B2	3 B2
A1	1 A1	0 A1	0 A1	0 A1	0 A1	0 A1	1 A1
A1	1 A1	0 A1	1 A1	0 A1	1 A1	0 A1	0 A1
A1	1 A1	0 A1	0 A1	0 A1	0 A1	1 A1	0 A1
N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
A1	0 A1	0 A1	1 A1	0 A1	0 A1	0 A1	1 A1
N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
B2	98 B2	106 B2	42 B2	75 B2	138 B2	84 B2	35 B2
B2	127 B2	204 B2	61 B2	86 B2	492 B2	150 B2	73 B2
B2	30 B2	11 B2	2 B2	5 B2	52 B2	66 B2	34 B2
B2	105 B2	33 B2	33 B2	17 B2	30 B2	68 B2	23 B2
B2	33 B2	294 B2	12 B2	35 B2	216 B2	32 B2	22 B2
BX	16 B2	0 BX	0 BX	0 BX	4 B2	5 B2	3 B2
B2	409 B2	648 B2	150 B2	218 B2	932 B2	405 B2	190 B2
B2	127 B2	154 B2	49 B2	53 B2	215 B2	97 B2	62 B2
B2	536 B2	802 B2	199 B2	271 B2	1147 B2	502 B2	252 B2
N	0 N	36 B3	23 B3	0 N	36 B3	0 N	0 N
N	0 N	0 N	0 N	0 N	0 N	0 N	0 N

ANNUAL RETURN INFORMATION REQUIREMENT

**SECTION E : OPERATING COSTS AND EFFICIENCY**  
**Table E9: Large Sewage Treatment Works Information Database**

Line Ref.	Description	Ofwat Ref	Units	Field Type	10		20		30		40		50		60		70		80		90		100	
					Comment Necessary	Comment																		
<b>Works Size</b>																								
<b>Name</b>																								
E9.0	Name	-		I																				
E9.1	Annual average resident connected population	T17b, L2	000	I	N																			
E9.2	Annual average non-resident connected population	T17b, L3	000	I	N																			
E9.3	Trade effluent load received by works	T17b, L4	kg/COD/day	I	N	The loads are broadly		The loads are broadly																
E9.4	Tanker load received by works	T17b, L5	kg/COD/day	I	N	Tanker loads that are		Tanker loads that are																
E9.5	Population equivalent of total load received	T17b, L6	000	I	N																			
<b>Treatability</b>																								
E9.6	Biological Oxygen Demand (BOD5) of influent	T17b, L7	mg/l	I	N																			
E9.7	Chemical Oxygen Demand (COD) of influent	T17b, L8	mg/l	I	N																			
E9.8	Total Organic Carbon (TOC) of influent	T17b, L9	mg/l	I	N	Scottish Water does not		Scottish Water does not																
E9.9	Suspended solids (SS) of influent	T17b, L10	mg/l	I	N	Data not recorded at		No suspended solids		Data not recorded at														
E9.10	Ammoniacal Nitrogen (NH3) of influent	T17b, L11	mg/l	I	N	No ammonia consent		No ammonia consent																
<b>Compliance</b>																								
E9.11	Suspended solids consent	T17b, L12	mg/l	I	N			This parameter is not																
E9.12	BOD consent	T17b, L13	mg/l	I	N																			
E9.13	COD consent	T17b, L14	mg/l	I	N																			
E9.14	Ammonia consent	T17b, L15	mg/l	I	N	This parameter is not				This parameter is not														
E9.15	Phosphate consent	T17b, L16	mg/l	I	N	This parameter is not		This parameter is not																
E9.16	Compliance with effluent consent standard	T17b, L17	%	I	N																			
<b>Flow</b>																								
E9.17	Average daily flow in dry weather	T17b, L18	Ml/d	I	N																			
E9.18	Ratio of daily maximum to minimum flow	T17b, L19	nr	I	N																			
<b>Treatment Works Category</b>																								
E9.19	Primary	T17b, L20	1/0	I	N																			
E9.20	Secondary activated sludge	T17b, L21	1/0	I	N																			
E9.21	Secondary biological	T17b, L22	1/0	I	N																			
E9.22	Tertiary A1	T17b, L23	1/0	I	N																			
E9.23	Tertiary A2	T17b, L24	1/0	I	N																			
E9.24	Tertiary B1	T17b, L25	1/0	I	N																			
E9.25	Tertiary B2	T17b, L26	1/0	I	N																			
<b>Miscellaneous Data</b>																								
E9.26	Distance to next works	T17b, L27	km	I	N																			
E9.27	Sea outfalls at works	T17b, L28	1/0	I	N																			
E9.28	Terminal Pumping costs	T17b, L29	1/0	I	N																			
E9.29	Own sludge	T17b, L30	1/0	I	N																			
E9.30	Own sludge costs	T17b, L31	1/0	I	N	Sludge costs associate		Sludge costs associa		Sludge costs assoc		Sludge costs associa		Sludge costs assoc										
E9.31	Sludge centre	T17b, L32	1/0	I	N																			
E9.32	Sludge centre costs	T17b, L33	1/0	I	N	Sludge costs associate		Sludge costs associa		Sludge costs assoc		Sludge costs associa		Sludge costs assoc										
<b>Works Cost</b>																								
E9.33	Employment costs	-	£'000	I	N																			
E9.34	Power costs	T17b, L35	£'000	I	N																			
E9.35	Hired and contracted services	-	£'000	I	N																			
E9.36	Materials and consumables	-	£'000	I	N																			
E9.37	Service charges SEPA	-	£'000	I	N																			
E9.38	Other direct costs	-	£'000	I	N																			
E9.39	Total direct costs	T17b, L34	£'000	C	N																			
E9.40	General and support expenditure	T17b, L37	£'000	I	N																			
E9.41	Functional Expenditure	T17b, L38	£'000	C	N																			
E9.42	Estimated terminal pumping station costs	T17b, L39	£'000	I	N	Please refer to general		Please refer to gener		Please refer to geni		Please refer to gener		Please refer to gen										
E9.43	Estimated sludge costs	T17b, L40	£'000	I	N	Please refer to general		Please refer to gener		Please refer to geni		Please refer to gener		Please refer to gen										

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ANNUAL RETURN INFORMATION REQUIREMENTS

**SECTION E : OPERATING COSTS AND EFFICIENCY**  
**Table E10: Wastewater Explanatory Factors - Sludge Treatment and Disposal**

Line Ref.	Description	Ofwat Ref	Units	Field Type	10	11	12	20	30	31	32	40	50	199	
					Disposal category										Total
					Farmland Untreated	Farmland Conventional	Farmland Advanced	Landfill	Incineration	Composted	Land Reclamation	Not in use	Other	CG	
<b>Sludge volumes</b>															
E10.1	Resident population served	T17g, L1	0	I	0	356	218	41	0	0	562		57	1234	
E10.2	Amount of sewage sludge	T17g, L2	tds	I	0	9.3	0.8	0.7	0	0	17.2		1.2	29.2	
<b>Sludge Treatment and Disposal cost:</b>															
E10.3	Employment costs	T17g, L3	£000	I	0	817.8	161.2	64.4	187.3	0	1154		42.6	2427.3	
E10.4	Power costs	T17g, L6	£000	I	0	1.6	0.3	0.1	0.4	0	2.2		0.1	4.7	
E10.5	Hired and contracted services	-	£000	I	0	1261.5	248.7	99.4	289	0	1780.2		65.7	3744.5	
E10.6	Materials and consumables	-	£000	I	0	77	15.2	6.1	17.6	0	108.6		4	228.5	
E10.7	Service charges SEPA	-	£000	I	0	1.1	0.2	0.1	0.2	0	1.5		0.1	3.2	
E10.8	Other direct costs	-	£000	I	0	18.8	3.7	1.5	4.3	0	26.5		1	55.8	
E10.9	Total direct costs	T17g, L5	£000	C	0	2177.8	429.3	171.6	498.8	0	3073		113.5	6464	
E10.10	General and support expenditure	T17g, L8	£000	I	0	799.1	157.5	63	183.1	0	1125.6		41.6	2369.9	
E10.11	Functional Expenditure	T17g, L9	£000	C	0	2976.9	586.8	234.6	681.9	0	4198.6		155.1	8833.9	
<b>Sludge Treatment Type</b>															
					No Sludge		Own Sludge		Sludge Centre						
					CG	CG	CG	CG	CG	CG					
E10.12	In treatment works size band 0	-	nr	I	1195										
E10.13	In treatment works size band 1	-	nr	I	274										
E10.14	In treatment works size band 2	-	nr	I	151										
E10.15	In treatment works size band 3	-	nr	I	189										
E10.16	In treatment works size band 4	-	nr	I	131										
E10.17	In treatment works size band 5	-	nr	I	24										
E10.18	In treatment works size band 6	-	nr	I	13										
E10.19	Not In Use														

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**SECTION E : OPERATING COSTS AND EFFICIENCY**

**Table E10: Wastewater Explanatory Factors - Sludge Treatment and Disposal**

Line Ref.	Description	Owat Ref	Units	Field Type	10		11		12		20		30		31		32		40		50		199		General
					Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	
					Farmland Untreated		Farmland Conventional		Farmland Advanced		Landfill		Incineration		Composted		Land Reclamation		Not in use		Other		Total		
<b>Sludge volumes</b>																									
E10.1	Resident population served	T17g, L1	0	I	N		N		N		N		N		N		N		N		N		N	A1	G
E10.2	Amount of sewage sludge	T17g, L2	tds	I	N		N		N		N		N		N		N		N		N		N	A2	G
<b>Sludge Treatment and Disposal cost</b>																									
E10.3	Employment costs	T17g, L3	£000	I	N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general comments on cost capture	N	Please refer to general con N	Please refer to general comments (AX)	N		N	A4	N
E10.4	Power costs	T17g, L6	£000	I	N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general comments on cost capture	N	Please refer to general con N	Please refer to general comments (B2)	N		N	A3	G
E10.5	Hired and contracted services	-	£000	I	N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general comments on cost capture	N	Please refer to general con N	Please refer to general comments (B3)	N		N	A4	N
E10.6	Materials and consumables	-	£000	I	N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general comments on cost capture	N	Please refer to general con N	Please refer to general comments (B4)	N		N	A4	N
E10.7	Service charges, SEPA	-	£000	I	N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general comments on cost capture	N	Please refer to general con N	Please refer to general comments (BX)	N		N	A4	N
E10.8	Other direct costs	-	£000	I	N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general comments on cost capture	N	Please refer to general con N	Please refer to general comments (C2)	N		N	A4	N
E10.9	Total direct costs	T17g, L5	£000	C	N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general comments on cost capture	N	Please refer to general con N	Please refer to general comments (C3)	N		N	A4	N
E10.10	General and support expenditure	T17g, L8	£000	I	N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general comments on cost capture	N	Please refer to general con N	Please refer to general comments (C5)	N		N	A4	N
E10.11	Functional Expenditure	T17g, L9	£000	C	N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general N	Please refer to general comments on cost capture	N	Please refer to general con N	Please refer to general comments (CX)	N		N	A4	N
<b>Sludge Treatment Type</b>																									
E10.12	In treatment works size band 0	-	nr	I	N																			N	N
E10.13	In treatment works size band 1	-	nr	I	N																			D3	N
E10.14	In treatment works size band 2	-	nr	I	N																			D4	N
E10.15	In treatment works size band 3	-	nr	I	N																			D5	N
E10.16	In treatment works size band 4	-	nr	I	N																			D6	N
E10.17	In treatment works size band 5	-	nr	I	N																			DX	N
E10.18	In treatment works size band 6	-	nr	I	N																			DX	N
E10.19	Not in Use										#N/A			#N/A											
<b>Issues with data</b>																									
	E10.11 should equal E2.12				Y		199																		
	E10.10 should equal E2.10 + E2.11				Y		199																		
	E10.9 should equal E2.9				Y		199																		
	E10.4 should equal E2.2				Y		199																		

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ANNUAL RETURN INFORMATION REQUIREMENTS

**SECTION E : OPERATING COSTS AND EFFICIENCY**  
**Table E11: Management and General**

Line Ref.	Description	Ofwat Ref	Units	Field Type	10		20	
					Water Service	CG	Wastewater Service	CG
<b>Employee numbers</b>								
E11.1	Direct operations	-	nr	I	1010	B2	821	B2
E11.2	Indirect operations (General and support)	-	nr	I	103	B2	102	B2
E11.3	Other (incl hired and contracted)	-	nr	I	327	B2	242	B2
E11.4	Total employee numbers	-	nr	C	1440	B2	1165	B2
<b>Management and General Assets</b>								
E11.5	Number of Offices	-	nr	I	11	A1	11	A1
E11.6	Area of Offices	-	m <sup>2</sup>	I	15195	B2	13474	B2
E11.7	Number of Laboratories	-	nr	I	3	B3	2	B3
E11.8	Area of Laboratories	-	m <sup>2</sup>	I	280	B3	3930	B3
E11.9	Number of Depots	-	nr	I	71	A1	71	A1
E11.10	Area of Depots	-	m <sup>2</sup>	I	55531	C3	49244	C3
E11.11	Number of Workshops	-	nr	I	0	C3	0	C3
E11.12	Area of Workshops	-	m <sup>2</sup>	I	0	C3	0	C3
E11.13	Number of Control Centres	-	nr	I	3	A1	3	A1
E11.14	Area of Control Centres	-	m <sup>2</sup>	I	1514	B2	1342	B2
E11.15	Vehicles & Plant	-	£m	I	21.1	C3	17.09	C3
E11.16	% Coverage of Telemetry Systems	-	%	I	29.2	B2	44.2	B2
E11.17	Number of Telemetry Outstations	-	nr	I	1652	B2	1509	B2
E11.18	Information Systems: Personal Computers	-	nr	I	2054	C3	1662	C3
E11.19	Information Systems: Workstations	-	nr	I	260	C3	211	C3
E11.20	Information Systems: Mainframes	-	nr	I	7	B2	7	B2

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Edition 2

