

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E1: Activity Based Costing - Water Service

Report Year 2007-08

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type	10		20		199	
						Water Resources & Treatment	CG	Water Distribution	CG	Water Service Total	CG
Service Analysis - Water : Direct Costs											
E1.1	Employment costs	T21, L1	E1.1	£m	I/C	12.727	A2	21.393	A2	34.120	A2
E1.2	Power	T21, L2	E1.2	£m	I/C	8.628	A2	6.912	A2	15.540	A2
E1.3	Hired and contracted services	T21, L4	E1.3	£m	I/C	1.913	A2	5.405	A2	7.318	A2
E1.4	Materials and consumables	T21, L6	E1.5	£m	I/C	10.098	A2	2.149	A2	12.247	A2
E1.5	Service charges by SEPA	T21, L7	E1.6	£m	I/C	2.980	A2	0.005	A2	2.985	A2
E1.6	Bulk supply imports	T21, L8	E1.7	£m	I/C	0.000	N	0.000	N	0.000	N
E1.7	Other direct costs	T21, L9	E1.8	£m	I/C	1.693	A2	1.116	A2	2.809	A2
E1.8	Total direct costs	T21, L10	E1.9	£m	C	38.039	A2	36.980	A2	75.019	A2
E1.9	General and support costs	T21, L11	E1.10 + E1.11	£m	I/C	7.232	A2	9.594	A2	16.826	A2
E1.10	Functional expenditure	T21, L12	E1.12	£m	C	45.271		46.574		91.845	A2
Operating Expenditure											
E1.11	Customer services	T21, L13	E1.13	£m	I					9.283	A2
E1.12	Scientific services	T21, L14	E1.14	£m	I					9.376	A2
E1.13	Other business activities	T21, L15	E1.15	£m	I					4.331	A2
E1.14	Total business activities	T21, L16	E1.16	£m	C					22.990	A2
E1.15	Local authority rates	T21, L17	E1.17	£m	I					19.514	A2
E1.16	Doubtful debts	T21, L18	E1.18	£m	I					5.802	A2
E1.17	Total Exceptional items	T21, L19	E1.23	£m	I					0.000	A2
E1.18	Total opex less third party services	T21, L20	E1.24	£m	C					140.151	A2
E1.19	Third party services - opex	T21, L21	E1.25	£m	I					2.668	A2
E1.20	Total operating expenditure	T21, L22	E1.26	£m	C					142.819	A2
Reactive and Planned Maintenance (included in Opex)											
E1.21	Reactive and planned maintenance infrastructure	T21, L23	E1.27	£m	I/C	0.000	A3	19.764	A3	19.764	A3
E1.22	Reactive and planned maintenance non-infrastructure	T21, L24	E1.28	£m	I/C	4.639	A3	1.352	A3	5.991	A3
Capital Maintenance											
E1.23	Infrastructure depreciation charge	T21, L25	E1.29	£m	I/C	4.579	A2	50.069	A2	54.648	A2
E1.24	Non-Infrastructure depreciation charge	T21, L26	E1.30	£m	I/C	46.150	A2	18.773	A2	64.923	A2
E1.25	Amortisation of deferred credits	T21, L27	E1.31	£m	I					-0.653	A2
E1.26	Amortisation of intangible assets	T21, L28	E1.32	£m	I					0.000	N
E1.27	Business activities depreciation charge	T21, L29	E1.33	£m	I					3.427	A2
E1.28	Capital maintenance less third party services	T21, L30	E1.34	£m	C					122.345	A2
E1.29	Third party services - depreciation	T21, L31 + L32	E1.35	£m	I					0.833	A2
E1.30	Total capital maintenance	T21, L33	E1.36	£m	C					123.178	A2
Total operating costs											
E1.31	Total operating costs	T21, L34	E1.39	£m	C					265.997	A2

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SECTION E : OPERATING COSTS AND EFFICIENCY
Table E1: Activity Based Costing - Water Service

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type
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Service Analysis - Water : Direct Costs					
E1.1	Employment costs	T21, L1	E1.1	£m	I/C
E1.2	Power	T21, L2	E1.2	£m	I/C
E1.3	Hired and contracted services	T21, L4	E1.3	£m	I/C
E1.4	Materials and consumables	T21, L6	E1.5	£m	I/C
E1.5	Service charges by SEPA	T21, L7	E1.6	£m	I/C
E1.6	Bulk supply imports	T21, L8	E1.7	£m	I/C
E1.7	Other direct costs	T21, L9	E1.8	£m	I/C

E1.8	Total direct costs	T21, L10	E1.9	£m	C
E1.09	General and support costs	T21, L11	E1.10 + E1.11	£m	I/C

E1.10	Functional expenditure	T21, L12	E1.12	£m	C
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Operating Expenditure					
E1.11	Customer services	T21, L13	E1.13	£m	I
E1.12	Scientific services	T21, L14	E1.14	£m	I
E1.13	Other business activities	T21, L15	E1.15	£m	I
E1.14	Total business activities	T21, L16	E1.16	£m	C

E1.15	Local authority rates	T21, L17	E1.17	£m	I
E1.16	Doubtful debts	T21, L18	E1.18	£m	I

E1.17	Total Exceptional items	T21, L19	E1.23	£m	I
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E1.18	Total opex less third party services	T21, L20	E1.24	£m	C
E1.19	Third party services - opex	T21, L21	E1.25	£m	I

E1.20	Total operating expenditure	T21, L22	E1.26	£m	C
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Reactive and Planned Maintenance (included in Opex)					
E1.21	Reactive and planned maintenance infrastructure	T21, L23	E1.27	£m	I/C
E1.22	Reactive and planned maintenance non-infrastructure	T21, L24	E1.28	£m	I/C

Capital Maintenance					
E1.23	Infrastructure depreciation charge	T21, L25	E1.29	£m	I/C
E1.24	Non-Infrastructure depreciation charge	T21, L26	E1.30	£m	I/C
E1.25	Amortisation of deferred credits	T21, L27	E1.31	£m	I
E1.26	Amortisation of intangible assets	T21, L28	E1.32	£m	I
E1.27	Business activities depreciation charge	T21, L29	E1.33	£m	I

E1.28	Capital maintenance less third party services	T21, L30	E1.34	£m	C
E1.29	Third party services - depreciation	T21, L31 + L32	E1.35	£m	I

E1.30	Total capital maintenance	T21, L33	E1.36	£m	C
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Total operating costs					
E1.31	Total operating costs	T21, L34	E1.39	£m	C

10
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Water Resources &

20
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Water Distribution

199
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Water Service Total

Comment Necessary?

Comment Necessary?

Comment Necessary?

Y
Y
Y
Y
Y
Y
Y
Y
Y

Y
Y
Y
Y
Y
Y
Y
Y
Y

Y
Y
Y
Y
Y
Y
Y
Y
Y

Y

Y

Y

#N/A

#N/A

Y

E1.11	Customer services	T21, L13	E1.13	£m	I
E1.12	Scientific services	T21, L14	E1.14	£m	I
E1.13	Other business activities	T21, L15	E1.15	£m	I
E1.14	Total business activities	T21, L16	E1.16	£m	C

#N/A
#N/A
#N/A
#N/A

#N/A
#N/A
#N/A
#N/A

Y
Y
Y
Y

E1.15	Local authority rates	T21, L17	E1.17	£m	I
E1.16	Doubtful debts	T21, L18	E1.18	£m	I

#N/A
#N/A

#N/A
#N/A

Y
Y

E1.17	Total Exceptional items	T21, L19	E1.23	£m	I
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#N/A

#N/A

Y

E1.18	Total opex less third party services	T21, L20	E1.24	£m	C
E1.19	Third party services - opex	T21, L21	E1.25	£m	I

#N/A
#N/A

#N/A
#N/A

Y
Y

E1.20	Total operating expenditure	T21, L22	E1.26	£m	C
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#N/A

#N/A

Y

Reactive and Planned Maintenance (included in Opex)					
E1.21	Reactive and planned maintenance infrastructure	T21, L23	E1.27	£m	I/C
E1.22	Reactive and planned maintenance non-infrastructure	T21, L24	E1.28	£m	I/C

Y
Y

Y
Y

Y
Y

Capital Maintenance					
E1.23	Infrastructure depreciation charge	T21, L25	E1.29	£m	I/C
E1.24	Non-Infrastructure depreciation charge	T21, L26	E1.30	£m	I/C
E1.25	Amortisation of deferred credits	T21, L27	E1.31	£m	I
E1.26	Amortisation of intangible assets	T21, L28	E1.32	£m	I
E1.27	Business activities depreciation charge	T21, L29	E1.33	£m	I

Y
Y
#N/A
#N/A
#N/A

Y
Y
#N/A
#N/A
#N/A

Y
Y
Y
Y
Y

E1.28	Capital maintenance less third party services	T21, L30	E1.34	£m	C
E1.29	Third party services - depreciation	T21, L31 + L32	E1.35	£m	I

#N/A
#N/A

#N/A
#N/A

Y
Y

E1.30	Total capital maintenance	T21, L33	E1.36	£m	C
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#N/A

#N/A

Y

Total operating costs					
E1.31	Total operating costs	T21, L34	E1.39	£m	C

#N/A

#N/A

Y

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SECTION E : OPERATING COSTS AND EFFICIENCY
Table E2: Activity Based Costing - Wastewater Service

Report Year 2007-08

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type	10	20	30	40	50	60	70	80	199	210	220	999					
						Sewerage									Sewage Treatment	Sludge Treatment	Sewerage Service Total	CG				
						Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	sub total								
Service Analysis - Waste Water Direct Costs																						
E2.0	Name	-	E2.0		I	Ness	Don	Forth	Tay	Ayr	Clyde	Nith	Tweed									
E2.1	Employment costs	T22, L1	E2.1	£m	I/C	1.258	1.719	1.208	2.045	1.461	0.955	1.744	2.083	12.473	10.930	2.423	25.826	A2				
E2.2	Power	T22, L2	E2.2	£m	I/C	0.451	0.664	0.862	1.082	1.533	0.434	0.354	0.635	6.015	9.790	1.055	16.860	A2				
E2.3	Hired and contracted services	T22, L4	E2.3	£m	I/C	0.303	0.533	0.787	1.601	0.691	0.712	1.251	1.509	7.387	1.835	4.232	13.454	A2				
E2.4	Materials and consumables	T22, L6	E2.5	£m	I/C	0.157	0.258	0.256	0.408	0.216	0.108	0.244	0.291	1.938	1.471	0.607	4.016	A2				
E2.5	Service charges by SEPA	T22, L7	E2.6	£m	I/C	0.119	0.205	0.148	0.177	0.194	0.049	0.242	0.057	1.191	5.878	0.047	7.116	A2				
E2.6	Other direct costs	T22, L8	E2.8	£m	I/C	0.122	0.105	0.269	0.107	0.098	0.096	0.149	0.237	1.183	1.028	0.064	2.275	A2				
E2.7	Total direct costs	T22, L9	E2.9	£m	C	2.410	3.484	3.530	5.420	4.193	2.354	3.984	4.812	30.187	30.932	8.428	69.547	A2				
E2.8	General and support costs	T22, L10	E2.10 + E2.11	£m	I/C	0.755	0.938	0.718	1.226	0.777	0.533	1.018	1.114	7.079	5.710	2.147	14.936	A2				
E2.9	Functional expenditure	T22, L11	E2.12	£m	C	3.165	4.422	4.248	6.646	4.970	2.887	5.002	5.926	37.266	36.642	10.575	84.483	A2				
Operating Expenditure																						
E2.10	Customer services	T22, L12	E2.13	£m	I															8.737	A2	
E2.11	Scientific services	T22, L13	E2.14	£m	I															1.450	A2	
E2.12	Other business activities	T22, L14	E2.15	£m	I															3.903	A2	
E2.13	Total business activities	T22, L15	E2.16	£m	C															14.090	A2	
E2.14	Local authority rates	T22, L16	E2.17	£m	I															9.801	A2	
E2.15	Doubtful debts	T22, L17	E2.18	£m	I															6.213	A2	
E2.16	Total Exceptional items	T22, L18	E2.23	£m	I															0.000	A2	
E2.17	Total opex less third party services	T22, L19	E2.24	£m	C															114.587	A2	
E2.18	Third party services - opex	T22, L20	E2.25	£m	I															3.532	A2	
E2.19	Total operating expenditure	T22, L21	E2.26	£m	C															118.119	A2	
Reactive and Planned Maintenance (included in Opex)																						
E2.20	Reactive and planned maintenance infrastructure	T22, L22	E2.27	£m	I/C	1.156	1.300	1.713	2.534	1.307	1.409	2.588	3.341	15.348	0.000	0.000	15.348	A3				
E2.21	Reactive and planned maintenance non-infrastructure	T22, L23	E2.28	£m	I/C	0.375	0.445	0.351	0.861	0.339	0.270	0.291	0.427	3.359	5.019	0.619	8.997	A3				
Capital Maintenance																						
E2.22	Infrastructure depreciation charge	T22, L24	E2.29	£m	I/C													35.324	0.000	0.000	35.324	A2
E2.23	Non-infrastructure depreciation charge	T22, L25	E2.30	£m	I/C													21.206	54.180	5.200	80.586	A2
E2.24	Amortisation of deferred credits	T22, L26	E2.31	£m	I															-0.277	A2	
E2.25	Amortisation of intangible assets	T22, L27	E2.32	£m	I															0.000	N	
E2.26	Business activities depreciation charge	T22, L28	E2.33	£m	I															1.481	A2	
E2.27	Capital maintenance less third party services	T22, L29	E2.34	£m	C															117.114	A2	
E2.28	Third party services - depreciation	T22, L30 + L31	E2.35	£m	I															1.348	A2	
E2.29	Total capital maintenance	T22, L32	E2.36	£m	C															118.462	A2	
Total Operating Costs																						
E2.30	Total operating costs	T22, L33	E2.39	£m	C															236.581	A2	

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SECTION E : OPERATING COSTS AND EFFICIENCY
Table E2: Activity Based Costing - Wastewater Service

999
Report Year 2007-08
Comment Necessary?

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type
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Service Analysis - Waste Water Direct Costs

E2.0	Name	-	E2.0		I
E2.1	Employment costs	T22, L1	E2.1	£m	I/C
E2.2	Power	T22, L2	E2.2	£m	I/C
E2.3	Hired and contracted services	T22, L4	E2.3	£m	I/C
E2.4	Materials and consumables	T22, L6	E2.5	£m	I/C
E2.5	Service charges by SEPA	T22, L7	E2.6	£m	I/C
E2.6	Other direct costs	T22, L8	E2.8	£m	I/C

Y
Y
Y
Y
Y
Y

E2.7	Total direct costs	T22, L9	E2.9	£m	C
E2.8	General and support costs	T22, L10	E2.10 + E2.11	£m	I/C

Y
Y

E2.9	Functional expenditure	T22, L11	E2.12	£m	C
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Y

Operating Expenditure

E2.10	Customer services	T22, L12	E2.13	£m	I
E2.11	Scientific services	T22, L13	E2.14	£m	I
E2.12	Other business activities	T22, L14	E2.15	£m	I
E2.13	Total business activities	T22, L15	E2.16	£m	C

Y
Y
Y
Y

E2.14	Local authority rates	T22, L16	E2.17	£m	I
E2.15	Doubtful debts	T22, L17	E2.18	£m	I

Y
Y

E2.16	Total Exceptional items	T22, L18	E2.23	£m	I
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Y

E2.17	Total opex less third party services	T22, L19	E2.24	£m	C
E2.18	Third party services - opex	T22, L20	E2.25	£m	I

Y
Y

E2.19	Total operating expenditure	T22, L21	E2.26	£m	C
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Y

Reactive and Planned Maintenance (included in Opex)

E2.20	Reactive and planned maintenance infrastructure	T22, L22	E2.27	£m	I/C
E2.21	Reactive and planned maintenance non-infrastructure	T22, L23	E2.28	£m	I/C

Y
Y

Capital Maintenance

E2.22	Infrastructure depreciation charge	T22, L24	E2.29	£m	I/C
E2.23	Non-infrastructure depreciation charge	T22, L25	E2.30	£m	I/C
E2.24	Amortisation of deferred credits	T22, L26	E2.31	£m	I
E2.25	Amortisation of intangible assets	T22, L27	E2.32	£m	I
E2.26	Business activities depreciation charge	T22, L28	E2.33	£m	I

Y
Y
Y
Y
Y

E2.27	Capital maintenance less third party services	T22, L29	E2.34	£m	C
E2.28	Third party services - depreciation	T22, L30 + L3	E2.35	£m	I

Y
Y

E2.29	Total capital maintenance	T22, L32	E2.36	£m	C
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Y

Total Operating Costs

E2.30	Total operating costs	T22, L33	E2.39	£m	C
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Y

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ANNUAL RETURN INFORMATION REQUIREMENT

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E3: PPP Project Analysis

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type	10	20	30	40	50	60	70	80	90	100	110	120	130	140
						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
Project Data																			
E3.0	Name	-	E3.0		I	Ft William	Inverness	Halton	Nigg	Persley	Peterhead	Fraserburgh	Lossiemouth	Buckie	Banff/Macduff	Seafield	Newbridge	East Calder	Blackburn
E3.1	Annual average resident connected population	-	E3.1	000	I/C	7.9 B3	52.8 B3	182.6 B3	189.0 B3	18.5 B3	22.1 B3	18.2 B3	32.0 B3	13.9 B3	10.0 B3	544.8 B3	20.9 B3	71.0 B3	13.9 B3
E3.2	Annual average non-resident connected population	-	E3.2	000	I/C	1.1 B3	2.5 B3	2.4 B3	2.6 B3	0.4 B3	0.6 B3	0.5 B3	0.9 B3	0.6 B3	0.4 B3	10.5 B3	0.2 B3	0.3 B3	0.2 B3
E3.3	Population equivalent of total load received	-	E3.5	000	I/C	20 B3	93 B3	260 B3	353 B3	29 B3	59 B3	42 B3	40 B3	30 B3	12 B3	807 B3	49 B3	113 B3	19 B3
Scope of Works																			
E3.4	Sewerage	-	E3.7	1/0	I	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	0 A1	0 A1
E3.5	Sewage Treatment	-	E3.8	1/0	I	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1
E3.6	Sludge Treatment	-	E3.9	1/0	I	0 A1	1 A1	1 A1	1 A1	0 A1	1 A1	1 A1	1 A1	0 A1	0 A1	1 A1	1 A1	1 A1	0 A1
E3.7	Terminal Pumping Station	-	E3.10	1/0	I	1 A1	1 A1	1 A1	1 A1	0 A1	0 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	0 A1	0 A1
E3.8	Other (state details)	-	E3.11	1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1
Sewage Treatment - Effluent Consent Standard																			
E3.9	Suspended solids consent	-	E3.17	mg/l	I	100 A1	100 A1	100 A1	0 N	100 A1	0 N	0 N	100 A1	100 A1	100 A1	150 A1	100 A1	100 A1	100 A1
E3.10	BOD consent	-	E3.18	mg/l	I	25 A1	25 A1	25 A1	25 A1	25 A1	25 A1	25 A1	25 A1	25 A1	25 A1	25 A1	15 A1	15 A1	10 A1
E3.11	COD consent	-	E3.19	mg/l	I	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1
E3.12	Ammonia consent	-	E3.20	mg/l	I	0 N	0 N	50 A1	0 N	35 A1	0 N	0 N	0 N	0 N	0 N	0 N	7 A1	2 A1	2 A1
E3.13	Phosphate consent	-	E3.21	mg/l	I	0 N	0 N	0 N	0 N	2 A1	0 N	0 N	0 N	0 N	0 N	0 N	1 A1	1 A1	1 A1
E3.14	Compliance with effluent consent standard	-	E3.22	%	I	100 A1	100 A1	100 A1	94 A1	100 A1	98 A1	100 A1	100 A1	100 A1	100 A1	100 A1	98 A1	100 A1	100 A1
Treatment Works Category																			
E3.15	Primary	-	E3.25	1/0	I	1 A1	1 A1	1 A1	1 A1	0 A1	1 A1	1 A1	0 A1	0 A1	0 A1	1 A1	1 A1	1 A1	1 A1
E3.16	Secondary activated sludge	-	E3.26	1/0	I	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	0 A1
E3.17	Secondary biological	-	E3.27	1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	1 A1
E3.18	Tertiary A1	-	E3.28	1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	1 A1	0 A1
E3.19	Tertiary A2	-	E3.29	1/0	I	0 A1	1 A1	0 A1	0 A1	1 A1	0 A1	1 A1	0 A1	0 A1	1 A1	1 A1	1 A1	1 A1	0 A1
E3.20	Tertiary B1	-	E3.30	1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1
E3.21	Tertiary B2	-	E3.31	1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	1 A1
Sewerage Data																			
E3.22	Total length of sewer	-	E3.47	km	I	4.28 B3	10.74 B3	40.30 B3	19.20 B3	0.41 B3	0.96 B3	1.80 B3	35.80 B3	19.20 B3	7.45 B3	44.05 B3	3.06 B3	0.00 N	0.00 N
E3.23	Length of critical sewer	-	E3.48	km	I	4.28 B3	10.74 B3	40.30 B3	19.20 B3	0.41 B3	0.96 B3	1.80 B3	35.80 B3	19.20 B3	7.45 B3	44.05 B3	3.06 B3	0.00 N	0.00 N
E3.24	Number of pumping stations	-	E3.49	nr	I	4 A1	4 A1	16 A1	5 A1	0 N	0 N	1 A1	7 A1	12 A1	10 A1	7 A1	2 A1	0 N	0 N
E3.25	Capacity of pumping stations (m ³ /d)	-	E3.50	m ³ /day	I	65992 B3	247622 B3	2495439 B3	33506 B3	0 N	0 N	16848 B3	236563 B3	44240 B3	239242 B3	238723 B3	27043 B3	0 N	0 N
E3.26	Capacity of pumping stations (kw)	-	E3.51	kw	I	59 B3	806 B3	6310 B3	678 B3	0 N	0 N	0 N	325 B3	525 B3	571 B3	713 B3	26 B3	0 N	0 N
E3.27	Number of combined pumping stations	-	E3.52	nr	I	2 A1	1 A1	7 A1	5 A1	0 N	0 N	0 N	4 A1	8 A1	7 A1	6 A1	1 A1	0 N	0 N
E3.28	Capacity of combined pumping stations (m ³ /d)	-	E3.53	m ³ /day	I	4821 B3	34214 B3	209002 B3	33506 B3	0 N	0 N	0 N	65232 B3	23599 B3	115949 B3	116035 B3	10109 B3	0 N	0 N
E3.29	Number of stormwater pumping stations	-	E3.54	nr	I	0 N	2 A1	6 A1	0 N	0 N	0 N	0 N	1 A1	1 A1	1 A1	0 N	0 N	0 N	0 N
E3.30	Capacity of stormwater pumping stations (m ³ /d)	-	E3.55	m ³ /day	I	0 N	209088 B3	2134598 B3	0 N	0 N	0 N	0 N	142560 B3	6394 B3	56419 B3	0 N	0 N	0 N	0 N
E3.31	Number of combined sewer overflows	-	E3.56	nr	I	2 A1	1 A1	9 A1	5 A1	0 N	0 N	1 A1	4 A1	10 A1	8 A1	9 A1	1 A1	0 N	0 N
E3.32	Number of combined sewer overflows (screened)	-	E3.57	nr	I	2 A1	1 A1	9 A1	5 A1	0 N	0 N	1 A1	4 A1	10 A1	8 A1	9 A1	1 A1	0 N	0 N
Sludge Treatment and Disposal Data																			
E3.33	Farmland Untreated	-	E3.58	ttds	I/C	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
E3.34	Farmland Conventional	-	E3.59	ttds	I/C	0 N	0 N	1 B4	0 N	0 N	0 N	0 B4	0 N	0 N	0 N	0 N	0 B4	0 N	0 N
E3.35	Farmland Advanced	-	E3.60	ttds	I/C	0 N	0 N	4 B4	10 B4	0 N	1 B4	0 N	3 B4	0 N	0 N	7 B4	0 N	0 N	0 N
E3.36	Incineration	-	E3.62	ttds	I/C	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 B4	0 N	0 N	0 N
E3.37	Landfill	-	E3.61	ttds	I/C	0 N	0 N	0 B4	0 N	0 N	0 N	0 N	0 N	0 N	0 N	1 B4	0 N	0 B4	0 N
E3.38	Composted	-	E3.63	ttds	I/C	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
E3.39	Land Reclamation	-	E3.64	ttds	I/C	0 N	0 N	0 B4	0 N	0 N	0 N	0 N	0 B4	0 N	0 N	4 B4	1 B4	0 B4	0 N
E3.40	Other	-	E3.65	ttds	I/C	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	3 B4	1 B4	0 N	0 N

Prepared by: Date: 11/09/2008
 Checked by: Date: 11/09/2008
 Authorised by: Douglas Millican Date: 11/09/2008

150	160	170	180	190	200	210	220	230	240	250	199
AVSE	Levenmouth	Dalmuir	Daldowie	MSI	MSI	MSI					Total
CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG

Whitburn	Levenmouth	Dalmuir	Daldowie	Meadowhead	Stevenson	Inverclyde					
11.3 B3	115.2 B3	406.1 B3	0.0 N	191.3 B3	69.7 B3	76.8 B3					2068.0 B3
0.1 B3	1.1 B3	3.9 B3	0.0 N	2.5 B3	0.3 B3	0.4 B3					31.7 B3
12 B3	211 B3	609 B3	0 N	391 B3	95 B3	92 B3					3337 B3

1 A1	1 A1	0 A1	1 A1	0 A1	0 A1	1 A1					
1 A1	1 A1	1 A1	0 A1	1 A1	1 A1	1 A1					
0 A1	1 A1	0 A1	1 A1	1 A1	0 A1	0 A1					
1 A1	1 A1	0 A1	0 A1	0 A1	0 A1	0 A1					
0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1					

100 A1	100 A1	0 N	0 N	0 N	0 N	0 N					
10 A1	25 A1	25 A1	0 N	25 A1	25 A1	25 A1					
125 A1	125 A1	125 A1	0 N	125 A1	125 A1	125 A1					
1 A1	0 N	20 A1	0 N	50 A1	50 A1	0 N					
1 A1	0 N	0 N	0 N	0 N	0 N	0 N					
97 A1	100 A1	96 A1	0 N	88 A1	90 A1	100 A1					

1 A1	0 A1	1 A1	0 N	0 A1	1 A1	1 A1					
1 A1	1 A1	1 A1	0 N	1 A1	1 A1	1 A1					
0 A1	0 A1	0 A1	0 N	0 A1	0 A1	0 A1					
1 A1	0 A1	0 A1	0 N	0 A1	0 A1	0 A1					
1 A1	1 A1	0 A1	0 N	1 A1	0 A1	0 A1					
0 A1	0 A1	0 A1	0 N	0 A1	0 A1	0 A1					
0 A1	0 A1	0 A1	0 N	0 A1	0 A1	0 A1					

0.00 N	7.81 B3	0.00 N	11.80 B3	0.00 N	0.00 N	0.90 B3					
0.00 N	7.81 B3	0.00 N	11.80 B3	0.00 N	0.00 N	0.90 B3					
1 A1	8 A1	0 N	1 A1	0 N	0 N	0 N					
3888 B3	503453 B3	0 N	10320 B3	0 N	0 N	0 N					
0 N	134 B3	0 N	660 B3	0 N	0 N	0 N					
0 N	1 A1	0 N	0 N	0 N	0 N	0 N					
0 N	23328 B3	0 N	0 N	0 N	0 N	0 N					
0 N	2 A1	0 N	0 N	0 N	0 N	0 N					
0 N	94176 B3	0 N	0 N	0 N	0 N	0 N					
0 N	5 A1	0 N	0 N	0 N	0 N	0 N					
0 N	5 A1	0 N	0 N	0 N	0 N	0 N					

0 N	0 N	0 N	0 N	0 N	0 N	0 N					0 N
0 N	0 N	0 N	0 N	0 N	0 N	0 N					1 B4
0 N	2 B4	0 N	0 B3	0 B4	0 N	0 N					27 B4
0 N	2 B4	0 N	46 B3	5 B4	0 N	0 N					53 B3
0 N	0 B4	0 N	1 B3	3 B4	0 N	0 N					6 B4
0 N	0 B4	0 N	0 N	0 N	0 N	0 N					0 B4
0 N	0 N	0 N	0 N	1 B4	0 N	0 N					7 B4
0 N	0 N	0 N	0 N	0 N	0 N	0 N					4 B4

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E3a: PPP Cost Analysis

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type	10		20		30		40		50		60		70		80		90		100		110		120																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
						Highland	CG	Highland	CG	Tay	CG	Aberdeen	CG	Aberdeen	CG	Aberdeen	CG	Aberdeen	CG	Aberdeen	CG	Moray Coast	CG	Moray Coast	CG	Moray Coast	CG	Moray Coast	CG	Moray Coast	CG	AVSE	CG	AVSE	CG																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
E3a.0	Name	-	E3a.0			Ft William		Inverness		Hatton		Nigg		Persley		Peterhead		Fraserburgh		Lossie Mouth		Buckie		Banff/Macduff		Seafield		Newbridge																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Sewerage Costs																															E3a.1	Estimated direct operating cost	-	E3a.1	£m	I/C	0.032	D6	0.108	D6	1.805	D6	0.268	D6	0.004	D6	0.025	D6	0.011	D6	0.403	D6	0.314	D6	0.231	D6	0.301	D6	0.002	D6		E3a.2	Rates paid by the PPP contractor	-	E3a.2	£m	I/C	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	E3a.3	SEPA charges paid by the PPP contractor	-	E3a.3	£m	I/C	0.003	A2	0.003	A2	0.012	A2	0.006	A2	0.000	N	0.000	N	0.001	A2	0.005	A2	0.011	A2	0.012	A2	0.000	N	0.000	N	0.000	N	E3a.4	Total direct cost	-	E3a.4	£m	C	0.035	D6	0.111	D6	1.817	D6	0.274	D6	0.004	D6	0.025	D6	0.012	D6	0.408	D6	0.325	D6	0.243	D6	0.301	D6	0.002	D6		E3a.5	Scottish Water general & support expenditure	-	E3a.5	£m	I/C	0.001	CX	0.006	C4	0.055	C4	0.030	C4	0.000	CX	0.002	CX	0.001	CX	0.031	C4	0.013	C4	0.010	C4	0.016	C4	0.000	CX		E3a.6	Scottish Water SEPA charges	-	E3a.6	£m	I/C	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	E3a.7	Total sewerage cost	-	E3a.7	£m	C	0.036	D6	0.117	D6	1.872	D6	0.304	D6	0.004	D6	0.027	D6	0.013	D6	0.439	D6	0.338	D6	0.253	D6	0.317	D6	0.002	D6		Sewage Treatment Costs																															E3a.8	Estimated direct operating cost	-	E3a.8	£m	I/C	0.507	D6	1.075	D6	1.416	D6	0.680	D6	0.716	D6	0.462	D6	0.461	D6	0.380	D6	0.291	D6	0.318	D6	5.398	D6	0.827	D6		E3a.9	Rates paid by the PPP contractor	-	E3a.9	£m	I/C	0.047	B3	0.176	B3	0.191	B3	0.372	B3	0.119	B3	0.053	B3	0.061	B3	0.029	B3	0.031	B3	0.036	B3	0.818	B3	0.077	B3		E3a.10	SEPA charges paid by the PPP contractor	-	E3a.10	£m	I/C	0.017	A2	0.164	A2	0.117	A2	0.325	A2	0.012	A2	0.031	A2	0.029	A2	0.029	A2	0.031	A2	0.031	A2	0.123	B3	0.014	B3		E3a.11	Total direct cost	-	E3a.11	£m	C	0.571	D6	1.415	D6	1.724	D6	1.377	D6	0.847	D6	0.546	D6	0.551	D6	0.438	D6	0.353	D6	0.385	D6	6.339	D6	0.918	D6		E3a.12	Scottish Water general & support expenditure	-	E3a.12	£m	I/C	0.022	C4	0.078	C4	0.080	C4	0.155	C4	0.029	C4	0.039	C4	0.037	C4	0.038	C4	0.014	C4	0.016	C4	0.336	C4	0.011	C4		E3a.13	Scottish Water SEPA charges	-	E3a.13	£m	I/C	0.000	N	0.000	N	0.000	N	0.209	A2	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	E3a.14	Total sewage treatment cost	-	E3a.14	£m	C	0.593	D6	1.493	D6	1.804	D6	1.741	D6	0.876	D6	0.585	D6	0.588	D6	0.476	D6	0.367	D6	0.401	D6	6.675	D6	0.929	D6		E3a.15	Estimated terminal pumping cost	-	E3a.15	£m	I/C	0.000	M	0.000	M	0.000	M	0.000	M	0.000	N	0.000	N	0.000	M	0.000	M	0.000	M	0.000	M	0.000	M	0.000	M	0.000	M	Sludge Treatment and Disposal Costs																															E3a.16	Estimated direct operating cost	-	E3a.16	£m	I/C	0.000	N	0.670	D6	2.032	D6	0.911	D6	0.000	N	0.000	N	0.000	N	1.332	D6	0.000	N	0.000	N	1.428	D6	0.449	D6		E3a.17	Rates paid by the PPP contractor	-	E3a.17	£m	I/C	0.000	N	0.087	B3	0.217	B3	0.238	B3	0.000	N	0.000	N	0.000	N	0.116	B3	0.000	N	0.000	N	0.201	B3	0.064	B3		E3a.18	SEPA charges paid by the PPP contractor	-	E3a.18	£m	I/C	0.000	N	0.007	A2	0.002	A2	0.004	A2	0.000	N	0.000	N	0.000	N	0.002	A2	0.000	N	0.000	N	0.003	A2	0.003	A2		E3a.19	Total direct cost	-	E3a.19	£m	C	0.000	N	0.764	D6	2.251	D6	1.153	D6	0.000	N	0.000	N	0.000	N	1.450	D6	0.000	N	0.000	N	1.632	D6	0.516	D6		E3a.20	Scottish Water general & support expenditure	-	E3a.20	£m	I/C	0.000	N	0.350	C4	0.241	C4	0.548	C4	0.000	N	0.000	N	0.000	N	0.262	C4	0.000	N	0.000	N	0.085	C4	0.006	C4		E3a.21	Scottish Water SEPA charges	-	E3a.21	£m	I/C	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	E3a.22	Total sludge treatment & disposal cost	-	E3a.22	£m	C	0.000	N	1.114	D6	2.492	D6	1.701	D6	0.000	N	0	N	0.000	N	1.712	D6	0.000	N	0.000	N	1.717	D6	0.522	D6		Total Cost Analysis																															E3a.23	Total direct cost	-	E3a.23	£m	C	0.606	D6	2.290	D6	5.792	D6	2.804	D6	0.851	D6	0.571	D6	0.563	D6	2.296	D6	0.678	D6	0.628	D6	8.272	D6	1.436	D6		E3a.24	Total Scottish Water cost	-	E3a.24	£m	C	0.023	C4	0.434	C4	0.376	C4	0.942	C4	0.029	C4	0.041	C4	0.038	C4	0.331	C4	0.027	C4	0.026	C4	0.437	C4	0.017	C4		E3a.25	Total operating cost	-	E3a.25	£m	C	0.629	D6	2.724	D6	6.168	D6	3.746	D6	0.880	D6	0.612	D6	0.601	D6	2.627	D6	0.705	D6	0.654	D6	8.709	D6	1.453	D6		E3a.26	Annual charge	-	E3a.26	£m	I/C	2.941	A1	6.040	A1	19.480	A1	12.778	A1	2.265	A1	2.736	A1	2.205	A1	3.137	A1	2.922	A1	2.800	A1	15.970	B3	2.265	B3		E3a.27	Public sector capital equivalent value	-	E3a.27	£m	I	17.341	B3	55.984	B3	150.322	B3	82.883	B3	20.129	B3	16.577	B3	20.129	B3	36.803	B3	27.164	B3	23.659	B3	66.451	B3	9.618	B3		Contract Information																															E3a.28	Contract period	-	E3a.28	years	I	25	A1	25	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	E3a.29	Contract end date	-	E3a.29	dd/mm/yy	I	12/12/21	A1	12/12/21	A1	15/12/29	A1	04/05/30	A1	04/05/30	A1	04/05/30	A1	04/05/30	A1	25/06/31	A1	25/06/31	A1	25/06/31	A1	30/11/29	A1	30/11/29	A1	
E3a.1	Estimated direct operating cost	-	E3a.1	£m	I/C	0.032	D6	0.108	D6	1.805	D6	0.268	D6	0.004	D6	0.025	D6	0.011	D6	0.403	D6	0.314	D6	0.231	D6	0.301	D6	0.002	D6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
E3a.2	Rates paid by the PPP contractor	-	E3a.2	£m	I/C	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
E3a.3	SEPA charges paid by the PPP contractor	-	E3a.3	£m	I/C	0.003	A2	0.003	A2	0.012	A2	0.006	A2	0.000	N	0.000	N	0.001	A2	0.005	A2	0.011	A2	0.012	A2	0.000	N	0.000	N	0.000	N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
E3a.4	Total direct cost	-	E3a.4	£m	C	0.035	D6	0.111	D6	1.817	D6	0.274	D6	0.004	D6	0.025	D6	0.012	D6	0.408	D6	0.325	D6	0.243	D6	0.301	D6	0.002	D6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
E3a.5	Scottish Water general & support expenditure	-	E3a.5	£m	I/C	0.001	CX	0.006	C4	0.055	C4	0.030	C4	0.000	CX	0.002	CX	0.001	CX	0.031	C4	0.013	C4	0.010	C4	0.016	C4	0.000	CX																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
E3a.6	Scottish Water SEPA charges	-	E3a.6	£m	I/C	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
E3a.7	Total sewerage cost	-	E3a.7	£m	C	0.036	D6	0.117	D6	1.872	D6	0.304	D6	0.004	D6	0.027	D6	0.013	D6	0.439	D6	0.338	D6	0.253	D6	0.317	D6	0.002	D6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Sewage Treatment Costs																															E3a.8	Estimated direct operating cost	-	E3a.8	£m	I/C	0.507	D6	1.075	D6	1.416	D6	0.680	D6	0.716	D6	0.462	D6	0.461	D6	0.380	D6	0.291	D6	0.318	D6	5.398	D6	0.827	D6		E3a.9	Rates paid by the PPP contractor	-	E3a.9	£m	I/C	0.047	B3	0.176	B3	0.191	B3	0.372	B3	0.119	B3	0.053	B3	0.061	B3	0.029	B3	0.031	B3	0.036	B3	0.818	B3	0.077	B3		E3a.10	SEPA charges paid by the PPP contractor	-	E3a.10	£m	I/C	0.017	A2	0.164	A2	0.117	A2	0.325	A2	0.012	A2	0.031	A2	0.029	A2	0.029	A2	0.031	A2	0.031	A2	0.123	B3	0.014	B3		E3a.11	Total direct cost	-	E3a.11	£m	C	0.571	D6	1.415	D6	1.724	D6	1.377	D6	0.847	D6	0.546	D6	0.551	D6	0.438	D6	0.353	D6	0.385	D6	6.339	D6	0.918	D6		E3a.12	Scottish Water general & support expenditure	-	E3a.12	£m	I/C	0.022	C4	0.078	C4	0.080	C4	0.155	C4	0.029	C4	0.039	C4	0.037	C4	0.038	C4	0.014	C4	0.016	C4	0.336	C4	0.011	C4		E3a.13	Scottish Water SEPA charges	-	E3a.13	£m	I/C	0.000	N	0.000	N	0.000	N	0.209	A2	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	E3a.14	Total sewage treatment cost	-	E3a.14	£m	C	0.593	D6	1.493	D6	1.804	D6	1.741	D6	0.876	D6	0.585	D6	0.588	D6	0.476	D6	0.367	D6	0.401	D6	6.675	D6	0.929	D6		E3a.15	Estimated terminal pumping cost	-	E3a.15	£m	I/C	0.000	M	0.000	M	0.000	M	0.000	M	0.000	N	0.000	N	0.000	M	0.000	M	0.000	M	0.000	M	0.000	M	0.000	M	0.000	M	Sludge Treatment and Disposal Costs																															E3a.16	Estimated direct operating cost	-	E3a.16	£m	I/C	0.000	N	0.670	D6	2.032	D6	0.911	D6	0.000	N	0.000	N	0.000	N	1.332	D6	0.000	N	0.000	N	1.428	D6	0.449	D6		E3a.17	Rates paid by the PPP contractor	-	E3a.17	£m	I/C	0.000	N	0.087	B3	0.217	B3	0.238	B3	0.000	N	0.000	N	0.000	N	0.116	B3	0.000	N	0.000	N	0.201	B3	0.064	B3		E3a.18	SEPA charges paid by the PPP contractor	-	E3a.18	£m	I/C	0.000	N	0.007	A2	0.002	A2	0.004	A2	0.000	N	0.000	N	0.000	N	0.002	A2	0.000	N	0.000	N	0.003	A2	0.003	A2		E3a.19	Total direct cost	-	E3a.19	£m	C	0.000	N	0.764	D6	2.251	D6	1.153	D6	0.000	N	0.000	N	0.000	N	1.450	D6	0.000	N	0.000	N	1.632	D6	0.516	D6		E3a.20	Scottish Water general & support expenditure	-	E3a.20	£m	I/C	0.000	N	0.350	C4	0.241	C4	0.548	C4	0.000	N	0.000	N	0.000	N	0.262	C4	0.000	N	0.000	N	0.085	C4	0.006	C4		E3a.21	Scottish Water SEPA charges	-	E3a.21	£m	I/C	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	E3a.22	Total sludge treatment & disposal cost	-	E3a.22	£m	C	0.000	N	1.114	D6	2.492	D6	1.701	D6	0.000	N	0	N	0.000	N	1.712	D6	0.000	N	0.000	N	1.717	D6	0.522	D6		Total Cost Analysis																															E3a.23	Total direct cost	-	E3a.23	£m	C	0.606	D6	2.290	D6	5.792	D6	2.804	D6	0.851	D6	0.571	D6	0.563	D6	2.296	D6	0.678	D6	0.628	D6	8.272	D6	1.436	D6		E3a.24	Total Scottish Water cost	-	E3a.24	£m	C	0.023	C4	0.434	C4	0.376	C4	0.942	C4	0.029	C4	0.041	C4	0.038	C4	0.331	C4	0.027	C4	0.026	C4	0.437	C4	0.017	C4		E3a.25	Total operating cost	-	E3a.25	£m	C	0.629	D6	2.724	D6	6.168	D6	3.746	D6	0.880	D6	0.612	D6	0.601	D6	2.627	D6	0.705	D6	0.654	D6	8.709	D6	1.453	D6		E3a.26	Annual charge	-	E3a.26	£m	I/C	2.941	A1	6.040	A1	19.480	A1	12.778	A1	2.265	A1	2.736	A1	2.205	A1	3.137	A1	2.922	A1	2.800	A1	15.970	B3	2.265	B3		E3a.27	Public sector capital equivalent value	-	E3a.27	£m	I	17.341	B3	55.984	B3	150.322	B3	82.883	B3	20.129	B3	16.577	B3	20.129	B3	36.803	B3	27.164	B3	23.659	B3	66.451	B3	9.618	B3		Contract Information																															E3a.28	Contract period	-	E3a.28	years	I	25	A1	25	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	E3a.29	Contract end date	-	E3a.29	dd/mm/yy	I	12/12/21	A1	12/12/21	A1	15/12/29	A1	04/05/30	A1	04/05/30	A1	04/05/30	A1	04/05/30	A1	25/06/31	A1	25/06/31	A1	25/06/31	A1	30/11/29	A1	30/11/29	A1																																																																																																																																																																																																																																																												
E3a.8	Estimated direct operating cost	-	E3a.8	£m	I/C	0.507	D6	1.075	D6	1.416	D6	0.680	D6	0.716	D6	0.462	D6	0.461	D6	0.380	D6	0.291	D6	0.318	D6	5.398	D6	0.827	D6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
E3a.9	Rates paid by the PPP contractor	-	E3a.9	£m	I/C	0.047	B3	0.176	B3	0.191	B3	0.372	B3	0.119	B3	0.053	B3	0.061	B3	0.029	B3	0.031	B3	0.036	B3	0.818	B3	0.077	B3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
E3a.10	SEPA charges paid by the PPP contractor	-	E3a.10	£m	I/C	0.017	A2	0.164	A2	0.117	A2	0.325	A2	0.012	A2	0.031	A2	0.029	A2	0.029	A2	0.031	A2	0.031	A2	0.123	B3	0.014	B3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
E3a.11	Total direct cost	-	E3a.11	£m	C	0.571	D6	1.415	D6	1.724	D6	1.377	D6	0.847	D6	0.546	D6	0.551	D6	0.438	D6	0.353	D6	0.385	D6	6.339	D6	0.918	D6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
E3a.12	Scottish Water general & support expenditure	-	E3a.12	£m	I/C	0.022	C4	0.078	C4	0.080	C4	0.155	C4	0.029	C4	0.039	C4	0.037	C4	0.038	C4	0.014	C4	0.016	C4	0.336	C4	0.011	C4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
E3a.13	Scottish Water SEPA charges	-	E3a.13	£m	I/C	0.000	N	0.000	N	0.000	N	0.209	A2	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
E3a.14	Total sewage treatment cost	-	E3a.14	£m	C	0.593	D6	1.493	D6	1.804	D6	1.741	D6	0.876	D6	0.585	D6	0.588	D6	0.476	D6	0.367	D6	0.401	D6	6.675	D6	0.929	D6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
E3a.15	Estimated terminal pumping cost	-	E3a.15	£m	I/C	0.000	M	0.000	M	0.000	M	0.000	M	0.000	N	0.000	N	0.000	M	0.000	M	0.000	M	0.000	M	0.000	M	0.000	M	0.000	M																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Sludge Treatment and Disposal Costs																															E3a.16	Estimated direct operating cost	-	E3a.16	£m	I/C	0.000	N	0.670	D6	2.032	D6	0.911	D6	0.000	N	0.000	N	0.000	N	1.332	D6	0.000	N	0.000	N	1.428	D6	0.449	D6		E3a.17	Rates paid by the PPP contractor	-	E3a.17	£m	I/C	0.000	N	0.087	B3	0.217	B3	0.238	B3	0.000	N	0.000	N	0.000	N	0.116	B3	0.000	N	0.000	N	0.201	B3	0.064	B3		E3a.18	SEPA charges paid by the PPP contractor	-	E3a.18	£m	I/C	0.000	N	0.007	A2	0.002	A2	0.004	A2	0.000	N	0.000	N	0.000	N	0.002	A2	0.000	N	0.000	N	0.003	A2	0.003	A2		E3a.19	Total direct cost	-	E3a.19	£m	C	0.000	N	0.764	D6	2.251	D6	1.153	D6	0.000	N	0.000	N	0.000	N	1.450	D6	0.000	N	0.000	N	1.632	D6	0.516	D6		E3a.20	Scottish Water general & support expenditure	-	E3a.20	£m	I/C	0.000	N	0.350	C4	0.241	C4	0.548	C4	0.000	N	0.000	N	0.000	N	0.262	C4	0.000	N	0.000	N	0.085	C4	0.006	C4		E3a.21	Scottish Water SEPA charges	-	E3a.21	£m	I/C	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	E3a.22	Total sludge treatment & disposal cost	-	E3a.22	£m	C	0.000	N	1.114	D6	2.492	D6	1.701	D6	0.000	N	0	N	0.000	N	1.712	D6	0.000	N	0.000	N	1.717	D6	0.522	D6		Total Cost Analysis																															E3a.23	Total direct cost	-	E3a.23	£m	C	0.606	D6	2.290	D6	5.792	D6	2.804	D6	0.851	D6	0.571	D6	0.563	D6	2.296	D6	0.678	D6	0.628	D6	8.272	D6	1.436	D6		E3a.24	Total Scottish Water cost	-	E3a.24	£m	C	0.023	C4	0.434	C4	0.376	C4	0.942	C4	0.029	C4	0.041	C4	0.038	C4	0.331	C4	0.027	C4	0.026	C4	0.437	C4	0.017	C4		E3a.25	Total operating cost	-	E3a.25	£m	C	0.629	D6	2.724	D6	6.168	D6	3.746	D6	0.880	D6	0.612	D6	0.601	D6	2.627	D6	0.705	D6	0.654	D6	8.709	D6	1.453	D6		E3a.26	Annual charge	-	E3a.26	£m	I/C	2.941	A1	6.040	A1	19.480	A1	12.778	A1	2.265	A1	2.736	A1	2.205	A1	3.137	A1	2.922	A1	2.800	A1	15.970	B3	2.265	B3		E3a.27	Public sector capital equivalent value	-	E3a.27	£m	I	17.341	B3	55.984	B3	150.322	B3	82.883	B3	20.129	B3	16.577	B3	20.129	B3	36.803	B3	27.164	B3	23.659	B3	66.451	B3	9.618	B3		Contract Information																															E3a.28	Contract period	-	E3a.28	years	I	25	A1	25	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	E3a.29	Contract end date	-	E3a.29	dd/mm/yy	I	12/12/21	A1	12/12/21	A1	15/12/29	A1	04/05/30	A1	04/05/30	A1	04/05/30	A1	04/05/30	A1	25/06/31	A1	25/06/31	A1	25/06/31	A1	30/11/29	A1	30/11/29	A1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
E3a.16	Estimated direct operating cost	-	E3a.16	£m	I/C	0.000	N	0.670	D6	2.032	D6	0.911	D6	0.000	N	0.000	N	0.000	N	1.332	D6	0.000	N	0.000	N	1.428	D6	0.449	D6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
E3a.17	Rates paid by the PPP contractor	-	E3a.17	£m	I/C	0.000	N	0.087	B3	0.217	B3	0.238	B3	0.000	N	0.000	N	0.000	N	0.116	B3	0.000	N	0.000	N	0.201	B3	0.064	B3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
E3a.18	SEPA charges paid by the PPP contractor	-	E3a.18	£m	I/C	0.000	N	0.007	A2	0.002	A2	0.004	A2	0.000	N	0.000	N	0.000	N	0.002	A2	0.000	N	0.000	N	0.003	A2	0.003	A2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
E3a.19	Total direct cost	-	E3a.19	£m	C	0.000	N	0.764	D6	2.251	D6	1.153	D6	0.000	N	0.000	N	0.000	N	1.450	D6	0.000	N	0.000	N	1.632	D6	0.516	D6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
E3a.20	Scottish Water general & support expenditure	-	E3a.20	£m	I/C	0.000	N	0.350	C4	0.241	C4	0.548	C4	0.000	N	0.000	N	0.000	N	0.262	C4	0.000	N	0.000	N	0.085	C4	0.006	C4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
E3a.21	Scottish Water SEPA charges	-	E3a.21	£m	I/C	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
E3a.22	Total sludge treatment & disposal cost	-	E3a.22	£m	C	0.000	N	1.114	D6	2.492	D6	1.701	D6	0.000	N	0	N	0.000	N	1.712	D6	0.000	N	0.000	N	1.717	D6	0.522	D6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Total Cost Analysis																															E3a.23	Total direct cost	-	E3a.23	£m	C	0.606	D6	2.290	D6	5.792	D6	2.804	D6	0.851	D6	0.571	D6	0.563	D6	2.296	D6	0.678	D6	0.628	D6	8.272	D6	1.436	D6		E3a.24	Total Scottish Water cost	-	E3a.24	£m	C	0.023	C4	0.434	C4	0.376	C4	0.942	C4	0.029	C4	0.041	C4	0.038	C4	0.331	C4	0.027	C4	0.026	C4	0.437	C4	0.017	C4		E3a.25	Total operating cost	-	E3a.25	£m	C	0.629	D6	2.724	D6	6.168	D6	3.746	D6	0.880	D6	0.612	D6	0.601	D6	2.627	D6	0.705	D6	0.654	D6	8.709	D6	1.453	D6		E3a.26	Annual charge	-	E3a.26	£m	I/C	2.941	A1	6.040	A1	19.480	A1	12.778	A1	2.265	A1	2.736	A1	2.205	A1	3.137	A1	2.922	A1	2.800	A1	15.970	B3	2.265	B3		E3a.27	Public sector capital equivalent value	-	E3a.27	£m	I	17.341	B3	55.984	B3	150.322	B3	82.883	B3	20.129	B3	16.577	B3	20.129	B3	36.803	B3	27.164	B3	23.659	B3	66.451	B3	9.618	B3		Contract Information																															E3a.28	Contract period	-	E3a.28	years	I	25	A1	25	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	E3a.29	Contract end date	-	E3a.29	dd/mm/yy	I	12/12/21	A1	12/12/21	A1	15/12/29	A1	04/05/30	A1	04/05/30	A1	04/05/30	A1	04/05/30	A1	25/06/31	A1	25/06/31	A1	25/06/31	A1	30/11/29	A1	30/11/29	A1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
E3a.23	Total direct cost	-	E3a.23	£m	C	0.606	D6	2.290	D6	5.792	D6	2.804	D6	0.851	D6	0.571	D6	0.563	D6	2.296	D6	0.678	D6	0.628	D6	8.272	D6	1.436	D6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
E3a.24	Total Scottish Water cost	-	E3a.24	£m	C	0.023	C4	0.434	C4	0.376	C4	0.942	C4	0.029	C4	0.041	C4	0.038	C4	0.331	C4	0.027	C4	0.026	C4	0.437	C4	0.017	C4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
E3a.25	Total operating cost	-	E3a.25	£m	C	0.629	D6	2.724	D6	6.168	D6	3.746	D6	0.880	D6	0.612	D6	0.601	D6	2.627	D6	0.705	D6	0.654	D6	8.709	D6	1.453	D6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
E3a.26	Annual charge	-	E3a.26	£m	I/C	2.941	A1	6.040	A1	19.480	A1	12.778	A1	2.265	A1	2.736	A1	2.205	A1	3.137	A1	2.922	A1	2.800	A1	15.970	B3	2.265	B3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
E3a.27	Public sector capital equivalent value	-	E3a.27	£m	I	17.341	B3	55.984	B3	150.322	B3	82.883	B3	20.129	B3	16.577	B3	20.129	B3	36.803	B3	27.164	B3	23.659	B3	66.451	B3	9.618	B3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Contract Information																															E3a.28	Contract period	-	E3a.28	years	I	25	A1	25	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	E3a.29	Contract end date	-	E3a.29	dd/mm/yy	I	12/12/21	A1	12/12/21	A1	15/12/29	A1	04/05/30	A1	04/05/30	A1	04/05/30	A1	04/05/30	A1	25/06/31	A1	25/06/31	A1	25/06/31	A1	30/11/29	A1	30/11/29	A1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
E3a.28	Contract period	-	E3a.28	years	I	25	A1	25	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
E3a.29	Contract end date	-	E3a.29	dd/mm/yy	I	12/12/21	A1	12/12/21	A1	15/12/29	A1	04/05/30	A1	04/05/30	A1	04/05/30	A1	04/05/30	A1	25/06/31	A1	25/06/31	A1	25/06/31	A1	30/11/29	A1	30/11/29	A1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

Prepared by: Date: 13/06/2008
 Checked by: Date: 13/06/2008
 Authorised by: Douglas Millican Date: 13/06/2008

130	140	150	160	170	180	190	200	210	220	230	240	250	199
AVSE	AVSE	AVSE	Levenmouth	Dalmuir	Daldowie	MSI	MSI	MSI					Total
CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG

East Calder Blackburn Whitburn Levenmouth Dalmuir Daldowie Meadowhead Stevenston Inverclyde

0.000	N	0.000	N	0.000	DX	0.118	D6	0.000	N	0.380	D6	0.000	N	0.000	N	0.000	N	0.000	DX											4.002	D6	
0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N										0.000	N
0.000	N	0.000	N	0.000	N	0.003	A2	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N										0.056	A2
0.000	N	0.000	N	0.000	DX	0.121	D6	0.000	N	0.380	D6	0.000	N	0.000	N	0.000	DX	0.000		0.000		0.000		0.000		0.000		0.000		4.058	D6	
0.000	N	0.000	N	0.000	CX	0.003	C4	0.000	N	0.017	C4	0.000	N	0.000	N	0.000	CX													0.185	C4	
0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	BX													0.000	BX	
0.000	N	0.000	N	0.000	DX	0.124	D6	0.000	N	0.397	D6	0.000	N	0.000	N	0.000	DX	0.000		0.000		0.000		0.000		0.000		0.000		4.243	D6	

0.350	D6	0.217	D6	0.298	D6	2.314	D6	1.562	D6	0.000	N	1.546	D6	0.892	D6	0.785	D6														20.495	D6
0.095	B3	0.053	B3	0.036	B3	0.113	B3	0.522	B3	0.000	N	0.209	B3	0.162	B3	0.079	B3														3.279	B3
0.109	A2	0.012	A2	0.008	A2	0.117	A2	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N														1.169	B3
0.554	D6	0.282	D6	0.342	D6	2.544	D6	2.084	D6	0.000	N	1.755	D6	1.054	D6	0.864	D6	0.000		0.000		0.000		0.000		0.000		0.000		24.943	D6	
0.007	C4	0.004	C4	0.004	C4	0.067	C4	0.241	C4	0.000	N	0.295	C4	0.114	C4	0.103	C4														1.690	C4
0.000	N	0.000	N	0.000	N	0.000	N	0.326	A2	0.000	N	0.158	A2	0.081	A2	0.009	A2														0.783	A2
0.561	D6	0.286	D6	0.346	D6	2.611	D6	2.651	D6	0.000	N	2.208	D6	1.249	D6	0.976	D6	0.000		0.000		0.000		0.000		0.000		0.000		27.416	D6	
0.000	N	0.000	N	0.000	M	0.000	M	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N														0.000	N

0.000	N	0.000	N	0.000	N	0.946	D6	0.000	N	6.505	D6	1.021	D6	0.000	N	0.000	N														15.294	D6
0.000	N	0.000	N	0.000	N	0.044	B3	0.000	N	0.293	A2	0.142	B3	0.000	N	0.000	N														1.402	B3
0.000	N	0.000	N	0.000	N	0.006	B3	0.000	N	0.016	A2	0.011	A2	0.000	N	0.000	N														0.054	B3
0.000	N	0.000	N	0.000	N	0.996	D6	0.000	N	6.814	D6	1.174	D6	0.000	N	0.000	N	0.000		0.000		0.000		0.000		0.000		0.000		16.750	D6	
0.000	N	0.000	N	0.000	N	0.031	C4	0.000	N	1.614	C4	0.035	C4	0.000	N	0.000	N														3.172	C4
0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N														0.000	N
0.000	N	0.000	N	0.000	N	1.027	D6	0.000	N	8.428	D6	1.209	D6	0.000	N	0.000	N	0.000		0.000		0.000		0.000		0.000		0.000		19.922	D6	

0.554	D6	0.282	D6	0.342	D6	3.661	D6	2.084	D6	7.194	D6	2.929	D6	1.054	D6	0.864	D6	0.000		0.000		0.000		0.000		0.000		0.000		45.751	D6
0.007	C4	0.004	C4	0.004	C4	0.101	C4	0.567	C4	1.631	C4	0.488	C4	0.195	C4	0.112	C4	0.000		0.000		0.000		0.000		0.000		0.000		5.830	C4
0.561	D6	0.286	D6	0.346	D6	3.762	D6	2.651	D6	8.825	D6	3.417	D6	1.249	D6	0.976	D6	0.000		0.000		0.000		0.000		0.000		0.000		51.581	D6
1.300	B3	0.652	B3	0.831	B3	9.132	A1	7.559	A1	15.193	A1	7.209	A1	3.901	A1	3.177	A1													124.493	A1
5.246	B3	2.623	B3	3.497	B3	33.218	B3	57.668	B3	87.373	B3	58.745	B3	16.644	B3	16.057	B3													808.131	B3

30	A1	30	A1	30	A1	40	A1	25	A1	24	A1	30	A1	30	A1	30	A1															
30/11/29	A1	30/11/29	A1	30/11/29	A1	30/10/40	A1	07/02/27	A1	01/04/26	A1	29/09/32	A1	29/09/32	A1	29/09/32	A1															

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E4: Water Resources and Treatment

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type
Source Types					
E4.0	Area Name	-	E4.0	-	I
E4.1	Impounding reservoirs	T12, L1	E4.1	nr, M/d	I/C
E4.2	Lochs	-	E4.2	nr, M/d	I/C
E4.3	River and burn abstractions	T12, L2	E4.3	nr, M/d	I/C
E4.4	Boreholes	T12, L3	E4.4	nr, M/d	I/C
E4.5	Total	-	E4.5	nr, M/d	C
E4.6	Bulk water exports	-	E4.6	nr, M/d	I/C
E4.7	Bulk water imports	-	E4.7	nr, M/d	I/C

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

Peak demand and Pumping Head					
E4.13	Peak demand - peak to average ratio	-	E4.13	nr	I
E4.14	Average pumping head - resources and treatment	T12, L5	E4.14	m	I

Resources and Treatment costs (operational area)					
E4.15	Power	T21, L2	E1.2	£m	I/C
E4.16	Service charges by SEPA	T21, L7	E1.6	£m	I/C
E4.17	Total direct costs	T21, L10	E1.9	£m	I/C
E4.18	General and support costs	T21, L11	E1.10 + E1.11	£m	I/C
E4.19	Functional expenditure	T21, L12	E1.12	£m	C

Water Treatment Works by Process Type					
E4.20	Simple Disinfection	T12, L6	E4.17	nr, M/d, £m	I/C
E4.21	W1	T12, L7	E4.18	nr, M/d, £m	I/C
E4.22	W2	T12, L8	E4.19	nr, M/d, £m	I/C
E4.23	W3	T12, L9	E4.20	nr, M/d, £m	I/C
E4.24	W4	T12, L10	E4.21	nr, M/d, £m	I/C
E4.25	Total numbers of works	T12, L12	E4.22	nr	C
E4.26	Total distribution input	T12, L11	E4.23	M/d	C
E4.27	Total Operating costs	-	-	£m	C

Water Treatment Works by Size Band					
E4.28	Size band <=1 M/d	-	E4.30, E4.47	nr, £m	I/C
E4.29	Size band >1 - <=2.5 M/d	-	E4.31, E4.48	nr, £m	I/C
E4.30	Size band >2.5 - <=5 M/d	-	E4.32, E4.49	nr, £m	I/C
E4.31	Size band >5 - <=10 M/d	-	E4.33, E4.50	nr, £m	I/C
E4.32	Size band >10 - <=25 M/d	-	E4.34, E4.51	nr, £m	I/C
E4.33	Size band >25 - <=50 M/d	-	E4.35, E4.53	nr, £m	I/C
E4.34	Size band >50 - <=100 M/d	-	E4.36, E4.54	nr, £m	I/C
E4.35	Size band >100 - <=175 M/d	-	E4.37, E4.55	nr, £m	I/C
E4.36	Size band >175 M/d	-	E4.38, E4.56	nr, £m	I/C
E4.37	Total number of works	-	E4.39	nr	C
E4.38	Proportion of distribution input - total	-	E4.40	nr	C
E4.39	Total operating costs	-	E4.57	£m	C

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Edition 6

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 7	Area 8		Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	
number																	
Ness	Don	Forth	Tay	Ayr	Clyde	Nith	Tweed		Ness	Don	Forth	Tay	Ayr	Clyde	Nith	Tweed	
23	9	23	10	14	7	18	13	117	69,288	13,930	236,508	223,473	293,431	257,760	216,197	282,163	1,592,750
33	9	3	0	1	0	0	0	46	16,430	13,602	8,728	0,000	0,000	0,000	0,000	0,000	38,759
65	17	21	3	2	1	3	3	115	15,833	145,624	81,874	19,707	0,249	299,658	2,244	4,925	570,114
18	35	6	8	3	0	13	10	93	6,866	18,793	0,761	13,436	3,199	0,000	15,345	11,145	69,545
139	70	53	21	20	8	34	26	371	108,417	191,949	327,871	256,617	296,879	557,418	233,785	298,232	2,271,167
0	0	0	0	0	0	0	0	0	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
0	0	0	0	0	0	0	0	0	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000

Proportional Breakdown of Source output produced								Proportion of Own Source Output
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	
0.031	0.006	0.104	0.098	0.129	0.113	0.095	0.124	0.701
0.007	0.006	0.004	0.000	0.000	0.000	0.000	0.000	0.017
0.007	0.064	0.036	0.009	0.000	0.132	0.001	0.002	0.251
0.003	0.008	0.000	0.006	0.001	0.000	0.007	0.005	0.031
0.048	0.085	0.144	0.113	0.131	0.245	0.103	0.131	1.000

10	20
Total	CG
1	C4
27.2	C3

Resource and treatment - Costs									120
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	Total	CG
1,355	1,940	0,652	0,954	0,726	1,642	0,719	0,640	8,628	A2
0,463	0,325	0,466	0,306	0,508	0,175	0,414	0,323	2,980	A2
6,083	5,819	5,339	3,665	4,934	4,446	3,982	3,771	38,039	A2
1,416	0,973	1,184	0,735	0,875	0,522	0,736	0,791	7,232	A2
7,499	6,792	6,523	4,400	5,809	4,968	4,718	4,562	45,271	A2

Total Nr of Works		Total volume Dist'n input		Tot. prop'n of D.I.		Operating Costs	
nr	CG	M/d	CG	Prop'n (0-1)	£000	CG	
62	B2	48,359	C3	0.021	1,895	A2	
15	B2	3,642	C3	0.002	0,276	A2	
33	B2	274,014	C3	0.121	5,341	A2	
149	B2	1534,495	C3	0.676	31,178	A2	
54	B2	410,658	C3	0.181	6,561	A2	
313	B2						
		2271,167	C3	1.000			
					45,271	A2	

Nr of Works		Prop'n of D.I.		Operating Costs	
nr	CG	Prop'n (0-1)	CG	£000	CG
186	B2	0.012470688	C3	6,231	A2
25	B2	0.012999002	C3	2,451	A2
30	B2	0.032082256	C3	3,500	A2
20	B2	0.041316988	C3	3,995	A2
23	B2	0.11252233	C3	8,572	A2
13	B2	0.157091482	C3	7,067	A2
9	B2	0.225834956	C3	5,969	A2
4	B2	0.177288119	C3	3,641	A2
3	B2	0.228394179	C3	3,845	A2
313	B2				
		1	C3		
				45,271	A2

SECTION E : OPERATING COSTS AND EFFICIENCY

Table E4: Water Resources and Treatment

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type
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Source Types					
E4.0	Area Name	-	E4.0	-	I
E4.1	Impounding reservoirs	T12, L1	E4.1	nr, M/d	I/C
E4.2	Lochs	-	E4.2	nr, M/d	I/C
E4.3	River and burn abstractions	T12, L2	E4.3	nr, M/d	I/C
E4.4	Boreholes	T12, L3	E4.4	nr, M/d	I/C
E4.5	Total	-	E4.5	nr, M/d	C
E4.6	Bulk water exports	-	E4.6	nr, M/d	I/C
E4.7	Bulk water imports	-	E4.7	nr, M/d	I/C

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

Peak demand and Pumping Head					
E4.13	Peak demand - peak to average ratio	-	E4.13	nr	I
E4.14	Average pumping head - resources and treatment	T12, L5	E4.14	m	I

Resources and Treatment costs (operational area)					
E4.15	Power	T21, L2	E1.2	£m	I/C
E4.16	Service charges by SEPA	T21, L7	E1.6	£m	I/C
E4.17	Total direct costs	T21, L10	E1.9	£m	I/C
E4.18	General and support costs	T21, L11	E1.10 + E1.11	£m	I/C
E4.19	Functional expenditure	T21, L12	E1.12	£m	C

Water Treatment Works by Process Type					
E4.20	Simple Disinfection	T12, L6	E4.17	nr, M/d, £m	I/C
E4.21	W1	T12, L7	E4.18	nr, M/d, £m	I/C
E4.22	W2	T12, L8	E4.19	nr, M/d, £m	I/C
E4.23	W3	T12, L9	E4.20	nr, M/d, £m	I/C
E4.24	W4	T12, L10	E4.21	nr, M/d, £m	I/C
E4.25	Total numbers of works	T12, L12	E4.22	nr	C
E4.26	Total distribution input	T12, L11	E4.23	M/d	C
E4.27	Total Operating costs	-	-	£m	C

Water Treatment Works by Size Band					
E4.28	Size band <=1 M/d	-	E4.30, E4.47	nr, £m	I/C
E4.29	Size band >1 - <=2.5 M/d	-	E4.31, E4.48	nr, £m	I/C
E4.30	Size band >2.5 - <=5 M/d	-	E4.32, E4.49	nr, £m	I/C
E4.31	Size band >5 - <=10 M/d	-	E4.33, E4.50	nr, £m	I/C
E4.32	Size band >10 - <=25 M/d	-	E4.34, E4.51	nr, £m	I/C
E4.33	Size band >25 - <=50 M/d	-	E4.35, E4.53	nr, £m	I/C
E4.34	Size band >50 - <=100 M/d	-	E4.36, E4.54	nr, £m	I/C
E4.35	Size band >100 - <=175 M/d	-	E4.37, E4.55	nr, £m	I/C
E4.36	Size band >175 M/d	-	E4.38, E4.56	nr, £m	I/C
E4.37	Total number of works	-	E4.39	nr	C
E4.38	Proportion of distribution input - total	-	E4.40	nr	C
E4.39	Total operating costs	-	E4.57	£m	C

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Authorised by: Geoff Aitkenhead	Date: 11/09/2008

299
Total Source Outputs

Comment Necessary?

Y
Y
Y
Y
N
N

20
Peak demand and Pumping Head - Total

Comment Necessary?

Y
Y

120
Resource and Treatment Costs

Comment Necessary?

N
N
N
N
N

20	40
Total Nr of works	Total volume Dist'n input

Comment Necessary?	Comment Necessary?
--------------------	--------------------

N	Y
N	Y
N	Y
N	Y
N	Y
N	Y
N	Y

60
Operating Costs

Comment Necessary?

N
N
N
N
N
N

20	40	60
Nr of Works	Prop'n of D.I.	Operating Costs

Comment Necessary?	Comment Necessary?	Comment Necessary?
--------------------	--------------------	--------------------

N	Y	N
N	Y	N
N	Y	N
N	Y	N
N	Y	N
N	Y	N
N	Y	N
N	Y	N
N	Y	N
N	Y	N
N	Y	N
N	Y	N

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E6: Water Distribution

Line Ref.	Description	Owat Ref CMR 02, JR07	WICS Reference AR 06	Units	Field Type
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Area Data					
E6.0	Name	-	E6.0	Name	I
E6.1	Annual average resident connected population	-	E6.1	000	I/C
E6.2	Total connected properties	-	E6.2	000	I/C
E6.3	Volume of water delivered to households	-	E6.3	MI/d	I/C
E6.4	Volume of water delivered to non-households	-	E6.4	MI/d	I/C
E6.5	Area	-	E6.5	km ²	I/C
E6.6	Number of supply zones	-	E6.7	nr	I/C

Distribution costs (operational area)					
E6.7	Power	T21, L2	E1.2	£m	I/C
E6.8	Service charges by SEPA	T21, L7	E1.6	£m	I/C
E6.9	Total direct costs	T21, L10	E1.9	£m	I/C
E6.10	General and support costs	T21, L11	E1.10 + E1.11	£m	I/C
E6.11	Functional expenditure	T21, L12	E1.12	£m	C

Water main data					
E6.12	Potable mains: Band 1 (<=165mm)	T12,L13 C1	-	km	I
E6.13	Potable mains: Band 2 (166 - 320mm)	T12,L13 C2	-	km	I
E6.14	Potable mains: Band 3 (321 - 625mm)	T12,L13 C3	-	km	I
E6.15	Potable mains: Band 4 (>625mm)	T12,L13 C4	-	km	I
E6.16	Total length of mains	-	E6.8	km	C
E6.17	Total length of unlined iron mains	-	E6.9	km	I
E6.18	Total length of mains > 320mm diameter	-	E6.10	km	C
E6.19	Water mains bursts	-	E6.11	nr	I
E6.20	Leakage level	-	E6.12	MI/d	I
E6.21	Properties reported for low pressure	-	E6.13	nr	I/C

Pumping Stations					
E6.22	Total number of pumping stations	-	E6.14	nr	I/C
E6.23	Total capacity of pumping stations	-	E6.15	m ³ /d	I/C
E6.24	Total capacity of booster pumping stations	CM3, L18	E6.15a	Kw	I/C
E6.25	Average pumping head	-	E6.16	m	I

Service Reservoirs					
E6.26	Total number of service reservoirs	CM3, 13	E6.17	nr	I/C
E6.27	Total capacity of service reservoirs	CM3, L14	E6.18	MI	I/C

Water Towers					
E6.28	Total number of water towers	CM3, L15	E6.19	nr	I/C
E6.29	Total capacity of tower towers	CM3, L16	E6.20	MI	I/C

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 Authorised by: Geoff Aitkenhead Date: 11/09/2008

Report Year 2007-08																	
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	

Ness		Don		Forth		Tay		Ayr		Clyde		Nith		Tweed			
225.4	A2	514.0	A2	455.7	A2	734.1	A2	610.8	A2	770.5	A2	768.3	A2	899.7	A2	4978.6	A2
124.226	A2	268.732	A2	225.737	A2	370.435	A2	304.237	A2	394.844	A2	368.441	A2	447.339	A2	2503.991	A2
39.515	C4	89.402	C4	78.629	C4	126.884	C4	106.267	C4	134.217	C4	132.881	C4	155.764	C4	863.557	C4
22.545	A3	51.764	A3	97.773	A3	70.936	A3	83.008	A3	60.824	A3	62.887	A3	79.386	A3	529.123	A3
29550.000	A1	10887.000	A1	10041.000	A1	9485.000	A1	3850.000	A1	526.000	A1	8919.000	A1	6503.000	A1	79761.000	A1
117	A1	49	A1	54	A1	18	A1	17	A1	19	A1	37	A1	33	A1	344	A1

0.360	A2	1.474	A2	0.672	A2	0.586	A2	0.295	A2	2.020	A2	1.376	A2	0.129	A2	6.912	A2
0.000	A2	0.001	A2	0.000	A2	0.004	A2	0.000	A2	0.000	A2	0.000	A2	0.000	A2	0.005	A2
4.196	A2	5.279	A2	3.775	A2	4.753	A2	3.315	A2	5.083	A2	5.884	A2	4.695	A2	36.980	A2
1.321	A2	1.277	A2	1.045	A2	1.329	A2	0.992	A2	0.942	A2	1.450	A2	1.238	A2	9.594	A2
5.517	A2	6.556	A2	4.820	A2	6.082	A2	4.307	A2	6.025	A2	7.334	A2	5.933	A2	46.574	A2

5349.00	B2	6209.00	B2	3230.00	B2	5016.00	B2	3077.00	B2	2369.00	B2	5810.00	B2	3933.00	B2	34993.00	B2
858.00	B2	1159.00	B2	851.00	B2	1114.00	B2	1050.00	B2	618.00	B2	1237.00	B2	1461.00	B2	8348.00	B2
159.00	B2	432.00	B2	225.00	B2	521.00	B2	320.00	B2	213.00	B2	646.00	B2	471.00	B2	2987.00	B2
8.00	B2	23.00	B2	120.00	B2	113.00	B2	83.00	B2	191.00	B2	242.00	B2	55.00	B2	835.00	B2
6374.00	B2	7823.00	B2	4426.00	B2	6764.00	B2	4530.00	B2	3391.00	B2	7935.00	B2	5920.00	B2	47163.00	B2
843.50	B2	1049.10	B2	1816.30	B2	1826.40	B2	1635.00	B2	1665.10	B2	2610.90	B2	2666.00	B2	14112.30	B2
167.00	B2	455.00	B2	345.00	B2	634.00	B2	403.00	B2	404.00	B2	888.00	B2	526.00	B2	3822.00	B2
1071	B3	652	B3	767	B3	821	B3	1051	B3	1154	B3	1673	B3	769	B3	7958	B3
48.572	C3	55.866	C3	101.058	C3	77.488	C3	170.853	C3	175.581	C3	174.655	C3	119.942	C3	924.014	C3
539	B3	2210	B3	291	B3	1175	B3	299	B3	400	B3	691	B3	302	B3	5907	B3

126	B2	79	B2	58	B2	78	B2	50	B2	20	B2	74	B2	35	B2	520	B2
789723	C3	238745	C3	127323	C3	251169	C3	60171	C3	200890	C3	236030	C3	69243	C3	1973294	C3
1432.0	C3	7393.9	C3	2592.4	C3	4631.1	C3	1043.7	C3	5420.6	C3	7637.3	C3	774.6	C3	30925.7	C3
32.99	C3	54.16	C3	11.65	C3	14.55	C3	8.68	C3	43.31	C3	68.91	C3	3.84	C3	28.84	C3

365	B2	293	B2	212	B2	201	B2	89	B2	36	B2	147	B2	120	B2	1463	B2
197.311	B2	568.930	B2	466.044	B2	621.657	B2	399.359	B2	362.577	B2	623.370	B2	398.912	B2	3638.160	B2

5	B2	3	B2	0	B2	5	B2	0	B2	6	B2	6	B2	0	B2	25	B2
0.596	B2	1.027	B2	0.000	B2	10.317	B2	0.000	B2	15.176	B2	12.544	B2	0.000	B2	39.660	B2

ANNUAL RETURN INFORMATION REQUIREMENT

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E6: Water Distribution

Line Ref.	Description	Owat Ref CMR 02, JR07	WICS Reference AR 06	Units	Field Type	10	20	30	40	50	60	70	80	199
						Report Year 2007-08 - Area 1	Report Year 2007-08 - Area 2	Report Year 2007-08 - Area 3	Report Year 2007-08 - Area 4	Report Year 2007-08 - Area 5	Report Year 2007-08 - Area 6	Report Year 2007-08 - Area 7	Report Year 2007-08 - Area 8	Report Year 2007-08 - Total
Comment Necessary?														
Area Data														
E6.0	Name	-	E6.0	Name	I									
E6.1	Annual average resident connected population	-	E6.1	000	IC	N	N	N	N	N	N	N	N	N
E6.2	Total connected properties	-	E6.2	000	IC	N	N	N	N	N	N	N	N	N
E6.3	Volume of water delivered to households	-	E6.3	Mld	IC	N	N	N	N	N	N	N	N	N
E6.4	Volume of water delivered to non-households	-	E6.4	Mld	IC	N	N	N	N	N	N	N	N	N
E6.5	Area	-	E6.5	km ²	IC	N	N	N	N	N	N	N	N	N
E6.6	Number of supply zones	-	E6.7	nr	IC	N	N	N	N	N	N	N	N	N
Distribution costs (operational area)														
E6.7	Power	T21, L2	E1.2	Em	IC	N	N	N	N	N	N	N	N	N
E6.8	Service charges by SEPA	T21, L7	E1.6	Em	IC	N	N	N	N	N	N	N	N	N
E6.9	Total direct costs	T21, L10	E1.9	Em	IC	N	N	N	N	N	N	N	N	N
E6.10	General and support costs	T21, L11	E1.10 + E1.11	Em	IC	N	N	N	N	N	N	N	N	N
E6.11	Functional expenditure	T21, L12	E1.12	Em	C	N	N	N	N	N	N	N	N	N
Water main data														
E6.12	Potable mains: Band 1 (<=165mm)	T12, L13 C1	-	km	I	N	N	N	N	N	N	N	N	N
E6.13	Potable mains: Band 2 (166 - 320mm)	T12, L13 C2	-	km	I	N	N	N	N	N	N	N	N	N
E6.14	Potable mains: Band 3 (321 - 625mm)	T12, L13 C3	-	km	I	N	N	N	N	N	N	N	N	N
E6.15	Potable mains: Band 4 (>=625mm)	T12, L13 C4	-	km	I	N	N	N	N	N	N	N	N	N
E6.16	Total length of mains	-	E6.8	km	C	N	N	N	N	N	N	N	N	N
E6.17	Total length of unlined iron mains	-	E6.9	km	I	N	N	N	N	N	N	N	N	N
E6.18	Total length of mains > 320mm diameter	-	E6.10	km	C	N	N	N	N	N	N	N	N	N
E6.19	Water mains bursts	-	E6.11	nr	I	N	N	N	N	N	N	N	N	N
E6.20	Leakage level	-	E6.12	Mld	I	N	N	N	N	N	N	N	N	N
E6.21	Properties reported for low pressure	-	E6.13	nr	IC	N	N	N	N	N	N	N	N	N
Pumping Stations														
E6.22	Total number of pumping stations	-	E6.14	nr	IC	N	N	N	N	N	N	N	N	N
E6.23	Total capacity of pumping stations	-	E6.15	m ³ /d	IC	N	N	N	N	N	N	N	N	N
E6.24	Total capacity of booster pumping stations	CM3, L18	E6.15a	Kw	IC	N	N	N	N	N	N	N	N	N
E6.25	Average pumping head	-	E6.16	m	I	N	N	N	N	N	N	N	N	N
Service Reservoirs														
E6.26	Total number of service reservoirs	CM3, L13	E6.17	nr	IC	N	N	N	N	N	N	N	N	N
E6.27	Total capacity of service reservoirs	CM3, L14	E6.18	Ml	IC	N	N	N	N	N	N	N	N	N
Water Towers														
E6.28	Total number of water towers	CM3, L15	E6.19	nr	IC	N	N	N	N	N	N	N	N	N
E6.29	Total capacity of tower towers	CM3, L16	E6.20	Ml	IC	N	N	N	N	N	N	N	N	N

Prepared by: Date: 11/09/2008
 Checked by: Date: 11/09/2008
 Authorised by: Geoff Aitkenhead Date: 11/09/2008

ANNUAL RETURN INFORMATION REQUIREMENT

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E7: Wastewater Explanatory Factors - Sewerage & Sewage treatment by area

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	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	
						CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG
Area Data																			
E7.0	Name	-	E7.0	Name	I														
E7.1	Annual average resident connected population	T17a, L1	E7.1	000	I/C														
E7.2	Annual average non- resident connected population	T17a, L2	E7.2	000	I/C														
E7.3	Volume of sewage collected (daily average)	T17a, L3	E7.3	ML/d	I/C														
E7.4	Total connected properties	T17a, L4	E7.4	nr	I/C														
E7.5	Area of Sewerage District	T17a, L5	E7.5	km ²	I/C														
E7.6	Drained Area	-	E7.6	km ²	I/C														
E7.7	Annual Precipitation	-	E7.7	mm	I														
Sewerage Data																			
E7.8	Total length of sewer	T17a, L6	E7.8	km	I/C														
E7.9	Total length of lateral sewer	-	E7.9	km	I/C														
E7.10	Length of combined sewer	-	E7.10	km	I/C														
E7.11	Length of separate stormwater sewer	-	E7.11	km	I/C														
E7.12	Length of sewer > 1000 mm diameter	-	E7.12	km	I/C														
E7.13	Length of Critical Sewer	-	E7.13	km	I/C														
E7.14	Sewer Collapses	-	E7.14	nr	I/C														
Pumping Stations																			
E7.15	Total number of pumping stations	-	E7.15	nr	I/C														
E7.16	Total capacity of pumping stations (m ³ /d)	-	E7.16	m ³ /d	I/C														
E7.16a	Total capacity of pumping stations (kw)	-	E7.16a	Kw	I/C														
E7.17	Average pumping head	-	E7.17	m	I														
E7.18	Total number of combined pumping stations	-	E7.18	nr	I/C														
E7.19	Total capacity of combined pumping stations	-	E7.19	m ³ /d	I/C														
E7.20	Total number of stormwater pumping stations	-	E7.20	nr	I/C														
E7.21	Total capacity of stormwater pumping stations	-	E7.21	m ³ /d	I/C														
E7.22	Number of combined sewer overflows	-	E7.22	nr	I/C														
E7.23	Number of combined sewer overflows (screened)	-	E7.23	nr	I/C														
Sewage treatment works																			
E7.24	Number of sewage treatment works	-	-	nr	I/C														
E7.25	Total Load	-	-	kg BOD/day	I/C														

Note: Sewerage costs are reported on Table E2

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

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type	10	20	30	40	50	60	70	80	90	100	110	199
						Septic Tanks	Primary	Sec Activated Sludge	Sec biological	Tertiary A1	Tertiary A2	Tertiary B1	Tertiary B2	Sea Preliminary	Sea Screened	Sea Unscreened	Total
						Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?
Numbers																	
E8.1	Size Band 0	-	E8.1	nr	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.2	Size Band 1	T17c.L1	E8.2	nr	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.3	Size Band 2	T17c.L2	E8.3	nr	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.4	Size Band 3	T17c.L3	E8.4	nr	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.5	Size Band 4	T17c.L4	E8.5	nr	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.6	Size Band 5	T17c.L5	E8.6	nr	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.7	Size Band 6 (Large Works)	T17c.L6	E8.7	nr	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.8	Total Sewage Treatment Works	T17c.L7	E8.8	nr	C	N	N	N	N	N	N	N	N	N	N	N	N
E8.9	Small Sewage treatment works with ammonia consent <= 10 mg/l	T17c.L8	E8.9	nr	UC	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	E8.10	nr	UC	N	N	N	N	N	N	N	N	N	N	N	N
Loading (average daily load)																	
E8.11	Size Band 0	-	E8.11	kg BOD/day	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.12	Size Band 1	T17d.L1	E8.12	kg BOD/day	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.13	Size Band 2	T17d.L2	E8.13	kg BOD/day	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.14	Size Band 3	T17d.L3	E8.14	kg BOD/day	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.15	Size Band 4	T17d.L4	E8.15	kg BOD/day	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.16	Size Band 5	T17d.L5	E8.16	kg BOD/day	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.17	Size Band 6 (large works)	T17d.L6	E8.17	kg BOD/day	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.18	Total Load Received	T17d.L7	E8.18	kg BOD/day	C	N	N	N	N	N	N	N	N	N	N	N	N
E8.19	Small Sewage treatment works with ammonia consent <= 10 mg/l	T17d.L8	E8.19	kg BOD/day	UC	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	E8.20	kg BOD/day	UC	N	N	N	N	N	N	N	N	N	N	N	N
Compliance																	
E8.21	Size Band 0	-	E8.21	%	I	N	N	N	N	N	N	N	N	N	N	N	N
E8.22	Size Band 1	-	E8.22	%	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.23	Size Band 2	-	E8.23	%	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.24	Size Band 3	-	E8.24	%	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.25	Size Band 4	-	E8.25	%	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.26	Size Band 5	-	E8.26	%	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.27	Size Band 6 (large works)	-	E8.27	%	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.28	Average compliance by works - all sizes	-	E8.28	%	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.29	Small Sewage treatment works with ammonia consent <= 10 mg/l	-	E8.29	%	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.30	Small Sewage treatment works with ammonia consent <= 5 mg/l	-	E8.30	%	UC	N	N	N	N	N	N	N	N	N	N	N	N
Costs																	
E8.31	Direct costs for works in size band 0	-	E8.31	£000	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.32	Direct costs for works in size band 1	T17f.L1	E8.32	£000	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.33	Direct costs for works in size band 2	T17f.L2	E8.33	£000	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.34	Direct costs for works in size band 3	T17f.L3	E8.34	£000	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.35	Direct costs for works in size band 4	T17f.L4	E8.35	£000	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.36	Direct costs for works in size band 5	T17f.L5	E8.36	£000	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.37	Direct costs for works in size band 6 (large works)	T17f.L6	E8.37	£000	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.38	Direct costs for all sewage treatment works	T17f.L7	E8.38	£000	C	N	N	N	N	N	N	N	N	N	N	N	N
E8.39	General and support expenditure	T17f.L12	E8.39	£000	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.40	Functional expenditure	T17f.L13	E8.40	£000	C	N	N	N	N	N	N	N	N	N	N	N	N
E8.41	Power costs	T17f.L10	E8.41	£000	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.42	Service charges SEPA	T17f.L11	E8.42	£000	UC	N	N	N	N	N	N	N	N	N	N	N	N

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

Line Ref.	Description	Ofwat Ref JR 07	WfCS Reference AR 06	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		
E9.0	Name	T17b_L1	E9.0	Name	I																										
E9.0a	Name of operational area	-	-	Name	I																										
E9.1	Population equivalent of total load received	T17b_L2	E9.6	000	I	57 B3	42 B3	70 B3	26 B3	49 B3	97 B3	282 B3	398 B3	191 B3	33 B3	81 B3	67 B3	43 B3	60 B3	186 B3	102 B3	64 B3	490 B3	74 B3	48 B3						
Works Size																															
Compliance																															
E9.2	Suspended solids consent	T17b_L3	E9.11	mg/l	I	100 A1	100 A1	100 A1	0 N	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	0 N	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1		
E9.3	BOD consent	T17b_L4	E9.12	mg/l	I	20 A1	75 A1	75 A1	0 N	15 A1	20 A1	15 A1	25 A1	75 A1	10 A1	75 A1	20 A1	75 A1	0 N	15 A1	30 A1	10 A1	20 A1	10 A1	20 A1	75 A1	20 A1	20 A1	20 A1		
E9.4	COD consent	T17b_L5	E9.13	mg/l	I	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	0 N	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	
E9.5	Ammonia consent	T17b_L6	E9.14	mg/l	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 N	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	
E9.6	Phosphate consent	T17b_L7	E9.15	mg/l	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	
E9.7	Compliance with effluent consent standard	-	E9.16	%	I	97 A1	100 A1	100 A1	100 A1	94 A1	0 N	99 A1	100 A1	100 A1	100 A1	100 A1	96 A1	100 A1	100 A1	0 N	98 A1	97 A1	99 A1	100 A1	98 A1	100 A1	98 A1	100 A1	100 A1	100 A1	
Treatment Works Category																															
E9.8	Primary	T17b_L8	E9.19	1/0	I	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	0 N	1 N	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	0 N	
E9.9	Secondary activated sludge	T17b_L8	E9.20	1/0	I	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	0 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	0 N	
E9.10	Secondary biological	T17b_L8	E9.21	1/0	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	1 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	
E9.11	Tertiary A1	T17b_L8	E9.22	1/0	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	
E9.12	Tertiary A2	T17b_L8	E9.23	1/0	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	
E9.13	Tertiary B1	T17b_L8	E9.24	1/0	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	
E9.14	Tertiary B2	T17b_L8	E9.25	1/0	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	
Works Cost																															
E9.15	Power costs	T17b_L10	E9.34	£'000	I	94 A2	128 A2	127 A2	38 A2	119 A2	184 A2	498 A2	357 A2	54 A2	106 A2	169 A2	267 A2	138 A2	251 A2	297 A2	75 A2	125 A2	789 A2	238 A2	57 A2	61 A2					
E9.16	Service charges SEPA	T17b_L11	E9.37	£'000	I	34 A2	39 A2	33 A2	19 A2	37 A2	162 A2	47 A2	4 A2	19 A2	18 A2	17 A2	28 A2	158 A2	35 A2	300 A2	13 A2	34 A2	287 A2	37 A2	11 A2	24 A2					
E9.17	Total direct costs	T17b_L9	E9.39	£'000	I	215 A2	258 A2	384 A2	139 A2	231 A2	456 A2	792 A2	737 A2	184 A2	322 A2	322 A2	422 A2	384 A2	435 A2	716 A2	221 A2	215 A2	2026 A2	452 A2	187 A2	113 A2					
E9.18	General and support expenditure	T17b_L12	E9.40	£'000	I	40 A2	35 A2	63 A2	39 A2	43 A2	43 A2	51 A2	148 A2	19 A2	41 A2	49 A2	46 A2	27 A2	36 A2	31 A2	29 A2	23 A2	322 A2	74 A2	37 A2	12 A2					
E9.19	Functional Expenditure	T17b_L13	E9.41	£'000	C	255 A2	288 A2	427 A2	176 A2	271 A2	501 A2	643 A2	885 A2	159 A2	236 A2	366 A2	470 A2	392 A2	471 A2	748 A2	251 A2	240 A2	2351 A2	527 A2	295 A2	125 A2	0	0	0	0	
E9.20	Estimated terminal pumpino station costs	T17b_L14	E9.42	£'000	I	0 N	6 A3	90 A3	0 N	0 N	0 N	0 N	0 N	107 A3	16 A3	0 N	0 N	7 A3	63 A3	89 A3	23 A3	0 N	237 A3	71 A3	17 A3	17 A3	0 N				
E9.21	Estimated sludge costs	T17b_L15	E9.43	£'000	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N

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250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	
CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG



SECTION E: OPERATING COSTS AND EFFICIENCY
Table E3: Large Sewage Treatment Works Information Database

Line No	Description	Cost Ref	WCS Ref	Units	Field Type	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
						Common Measure 1%	Common Measure 1%	Common Measure 1%	Common Measure 1%	Common Measure 1%	Common Measure 1%	Common Measure 1%	Common Measure 1%	Common Measure 1%	Common Measure 1%	Common Measure 1%	Common Measure 1%	Common Measure 1%	Common Measure 1%	Common Measure 1%	Common Measure 1%	Common Measure 1%	Common Measure 1%	Common Measure 1%	Common Measure 1%	Common Measure 1%	Common Measure 1%	Common Measure 1%	Common Measure 1%			
Works Size																																
Compliance																																
Treatment Works Category																																
Works Cost																																
Project No: _____ Date: 1/6/2008																																
Checked by: _____ Date: 1/6/2008																																
Authorised by: _____ Date: 1/6/2008																																

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E10: Sludge Treatment and Disposal

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type	10	11	12	20	30	31	32	50	199	
						Disposal category								Total	CG
						Farmland Untreated	Farmland Conventional	Farmland Advanced	Incineration	Landfill	Composted	Land Reclamation	Other		
Sludge volumes															
E10.1	Resident population served	T17g, L1	E10.1	000	I	0.0	469.1	688.6	1249.7	127.6	12.4	109.8	10.6	2667.8	
E10.2	Amount of sewage sludge	T17g, L2	E10.2	ttds	I	0.0	9.6	11.9	0.0	0.6	0.2	1.5	0.0	23.8	
Sludge Treatment and Disposal costs															
E10.3	Sludge Treatment direct costs	T17g, L3	-	£000	I	0.000	1720.468	2486.550	0.000	430.598	83.809	629.728	0.000	5351.153	
E10.4	Sludge disposal direct costs	T17g, L4	-	£000	I	0.000	451.631	2265.019	0.000	219.010	13.613	127.574	0.000	3076.847	
E10.5	Sludge treatment & disposal: Power costs	T17g, L6	E10.4	£000	I	0.000	289.483	664.647	0.000	8.355	10.625	81.890	0.000	1055.000	
E10.6	Sludge treatment & disposal: Service charges SEPA	T17g, L7	E10.7	£000	I	0.000	22.049	16.856	0.000	0.447	0.924	6.724	0.000	47.000	
E10.7	Sludge treatment & disposal: Total direct costs	T17g, L5	E10.9	£000	C	0.000	2172.099	4751.569	0.000	649.608	97.422	757.302	0.000	8428.000	
E10.8	Sludge treatment and disposal: General and support e	T17g, L8	E10.10	£000	I	0.000	634.682	1040.547	0.000	199.891	31.510	240.370	0.000	2147.000	
E10.9	Sludge Treatment and disposal: Functional Expenditu	T17g, L9	E10.11	£000	C	0.000	2806.781	5792.116	0.000	849.499	128.932	997.672	0.000	10575.000	

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

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type	10		20	
						Water Service		Wastewater Service	
							CG		CG
Employee numbers									
E11.1	Direct operations	-	E11.1	nr	I	622	B2	474	B2
E11.2	Indirect operations (General and support)	-	E11.2	nr	I	302	B2	261	B2
E11.3	Other (incl hired and contracted)	-	E11.3	nr	I	410	B2	247	B2
E11.4	Total employee numbers	-	E11.4	nr	C	1333	B2	982	B2
Management and General Assets									
E11.5	Number of Offices	-	E11.5	nr	I	10	B3	10	B3
E11.6	Area of Offices	-	E11.6	m ²	I	20333	B3	14973	B3
E11.7	Number of Laboratories	-	E11.7	nr	I	5	B3	5	B3
E11.8	Area of Laboratories	-	E11.8	m ²	I	3135	B3	2308	B3
E11.9	Number of Depots	-	E11.9	nr	I	55	B4	55	B4
E11.10	Area of Depots	-	E11.10	m ²	I	45755	B4	33692	B4
E11.11	Number of Workshops	-	E11.11	nr	I	0	A1	0	A1
E11.12	Area of Workshops	-	E11.12	m ²	I	0	A1	0	A1
E11.13	Number of Control Centres	-	E11.13	nr	I	1	A1	1	A1
E11.14	Area of Control Centres	-	E11.14	m ²	I	458	C3	338	C3
E11.15	Vehicles & Plant	-	E11.15	£m	I	18.020	B3	13.269	B3
E11.16	% Coverage of Telemetry Systems	-	E11.16	%	I	35	A3	26	A3
E11.17	Number of Telemetry Outstations	-	E11.17	nr	I	1511	A3	2145	A3
E11.18	Information Systems: Personal Computers	-	E11.18	nr	I	2191	A2	2171	A2
E11.19	Information Systems: Workstations	-	E11.19	nr	I	455	A2	455	A2
E11.20	Information Systems: Mainframes	-	E11.20	nr	I	3	A2	3	A2

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

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type
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Employee numbers					
E11.1	Direct operations	-	E11.1	nr	I
E11.2	Indirect operations (General and support)	-	E11.2	nr	I
E11.3	Other (incl hired and contracted)	-	E11.3	nr	I
E11.4	Total employee numbers	-	E11.4	nr	C

Management and General Assets					
E11.5	Number of Offices	-	E11.5	nr	I
E11.6	Area of Offices	-	E11.6	m ²	I
E11.7	Number of Laboratories	-	E11.7	nr	I
E11.8	Area of Laboratories	-	E11.8	m ²	I
E11.9	Number of Depots	-	E11.9	nr	I
E11.10	Area of Depots	-	E11.10	m ²	I
E11.11	Number of Workshops	-	E11.11	nr	I
E11.12	Area of Workshops	-	E11.12	m ²	I
E11.13	Number of Control Centres	-	E11.13	nr	I
E11.14	Area of Control Centres	-	E11.14	m ²	I
E11.15	Vehicles & Plant	-	E11.15	£m	I
E11.16	% Coverage of Telemetry Systems	-	E11.16	%	I
E11.17	Number of Telemetry Outstations	-	E11.17	nr	I
E11.18	Information Systems: Personal Computers	-	E11.18	nr	I
E11.19	Information Systems: Workstations	-	E11.19	nr	I
E11.20	Information Systems: Mainframes	-	E11.20	nr	I

10
Water Service

20
Wastewater Service

Comment Necessary?

Comment Necessary?

N	N
N	N
N	N
N	N
Y	Y
Y	Y
N	N
N	N
N	N
Y	Y
N	N
N	N
N	N
N	N
N	N
N	N
N	N
N	N
N	N
N	N
N	N

Prepared by: Date: 13/06/2008
 Checked by: Date: 13/06/2008
 Authorised by: Douglas Millican Date: 13/06/2008

CONFIDENCE GRADES LOOK UP TABLE

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