

**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	40,000	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
<b>Project Data</b>						Ft William	Inverness	Hatton	Nigg	Persley	Peterhead	Fraserburgh	Lossiemouth	Buckie	Banff/Macduff	Seafield	Newbridge	East Calder	Blackburn
E3.0	Name	-	E3.0		I	8.2	60.2	193.3	220.1	37.4	22.8	18.0	36.5	13.6	10.7	594.3	24.2	71.5	18.6
E3.1	Annual average resident connected population	-	E3.1	000	I/C	1.0	4.3	2.4	2.8	0.6	0.4	0.4	0.5	0.4	0.5	5.2	0.2	0.2	0.2
E3.2	Annual average non-resident connected population	-	E3.2	000	I/C	16.7	87.3	244.1	288.1	46.5	36.3	25.3	44.0	21.4	12.5	758.8	34.1	113.3	22.5
E3.3	Population equivalent of total load received	-	E3.5	000	I/C														
<b>Scope of Works</b>																			
E3.4	Sewerage	-	E3.7	1/0	I	1	1	1	1	1	1	1	1	1	1	1	1	1	0
E3.5	Sewage Treatment	-	E3.8	1/0	I	1	1	1	1	1	1	1	1	1	1	1	1	1	1
E3.6	Sludge Treatment	-	E3.9	1/0	I	0	1	1	1	0	0	0	1	0	0	1	1	1	0
E3.7	Terminal Pumping Station	-	E3.10	1/0	I	1	1	1	0	0	0	1	1	1	1	1	1	1	0
E3.8	Other (state details)	-	E3.11	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Sewage Treatment - Effluent Consent Standard</b>																			
E3.9	Suspended solids consent	-	E3.17	mg/l	I	100	100	100	0	100	0	0	100	100	100	375	100	100	100
E3.10	BOD consent	-	E3.18	mg/l	I	25	25	25	25	25	25	25	25	25	25	25	15	15	10
E3.11	COD consent	-	E3.19	mg/l	I	125	125	125	125	125	125	125	125	125	125	125	125	125	125
E3.12	Ammonia consent	-	E3.20	mg/l	I	0	0	50	0	35	0	0	0	0	0	0	7	2	2
E3.13	Phosphate consent	-	E3.21	mg/l	I	0	0	0	0	2	0	0	0	0	0	0	0.5	0.5	0.5
E3.14	Compliance with effluent consent standard	-	E3.22	%	I	100	100	100	91	99	100	100	100	100	100	100	100	99	100
<b>Treatment Works Category</b>																			
E3.15	Primary	-	E3.25	1/0	I	1	1	1	1	0	1	1	0	0	0	1	1	1	1
E3.16	Secondary activated sludge	-	E3.26	1/0	I	1	1	1	1	1	1	1	1	1	1	1	1	1	0
E3.17	Secondary biological	-	E3.27	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	1
E3.18	Tertiary A1	-	E3.28	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	1	0
E3.19	Tertiary A2	-	E3.29	1/0	I	0	0	0	0	1	0	1	0	0	1	0	1	1	0
E3.20	Tertiary B1	-	E3.30	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3.21	Tertiary B2	-	E3.31	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>Sewerage Data</b>																			
E3.22	Total length of sewer	-	E3.47	km	I	4.3	10.7	40.7	35.7	0.4	1.0	1.8	31.6	18.5	9.5	44.0	3.1	0.0	0.0
E3.23	Length of critical sewer	-	E3.48	km	I	4.3	10.7	40.7	35.7	0.4	1.0	1.8	31.6	18.5	9.5	44.0	3.1	0.0	0.0
E3.24	Number of pumping stations	-	E3.49	nr	I	4	4	16	14	0	0	1	7	12	10	7	2	0	0
E3.25	Capacity of pumping stations (m <sup>3</sup> /d)	-	E3.50	m <sup>3</sup> /day	I	65,992	247,622	2,480,129	192,871	0	0	16,848	236,563	44,240	239,242	238,723	27,043	0	0
E3.26	Capacity of pumping stations (kw)	-	E3.51	kw	I	59	806	6,623	2,103	0	0	0	325	525	625	713	26	0	0
E3.27	Number of combined pumping stations	-	E3.52	nr	I	2	1	7	12	0	0	0	4	8	7	6	1	0	0
E3.28	Capacity of combined pumping stations (m <sup>3</sup> /d)	-	E3.53	m <sup>3</sup> /day	I	4,821	34,214	209,002	96,362	0	0	0	65,232	23,599	115,949	116,035	10,109	0	0
E3.29	Number of stormwater pumping stations	-	E3.54	nr	I	0	2	6	2	0	0	0	1	1	1	0	0	0	0
E3.30	Capacity of stormwater pumping stations (m <sup>3</sup> /d)	-	E3.55	m <sup>3</sup> /day	I	0	209,088	2,105,741	96,509	0	0	0	142,560	6,394	56,419	0	0	0	0
E3.31	Number of combined sewer overflows	-	E3.56	nr	I	2	1	9	8	0	0	1	4	10	8	9	1	1	0
E3.32	Number of combined sewer overflows (screened)	-	E3.57	nr	I	2	1	9	8	0	0	1	4	10	8	9	1	1	0
<b>Sludge Treatment and Disposal Data</b>																			
E3.33	Farmland Untreated	-	E3.58	ttds	I/C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E3.34	Farmland Conventional	-	E3.59	ttds	I/C	0.000	2.272	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E3.35	Farmland Advanced	-	E3.60	ttds	I/C	0.000	0.000	4.215	11.413	0.000	0.000	0.000	2.876	0.000	0.000	22.044	0.000	0.000	0.000
E3.36	Incineration	-	E3.62	ttds	I/C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E3.37	Landfill	-	E3.61	ttds	I/C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.026	0.000	0.000	0.000
E3.38	Composted	-	E3.63	ttds	I/C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E3.39	Land Reclamation	-	E3.64	ttds	I/C	0.000	0.000	0.000	0.028	0.019	0.025	0.005	0.000	0.000	0.000	0.000	0.469	0.000	0.000
E3.40	Other	-	E3.65	ttds	I/C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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150	160	170	180	190	200	210	199
AVSE	Levenmouth	Dalmuir	Daldowie	MSI	MSI	MSI	Total
CG	CG	CG	CG	CG	CG	CG	CG

Whitburn	Levenmouth	Dalmuir	Daldowie	Meadowhead	Stevenston	Inverclyde									
11.9	B3	115.5	B3	421.3	B3	0.0	A1	190.0	B3	69.0	B3	75.3	B3	2212.4	B3
0.0	B3	1.8	B3	3.7	B3	0.0	A1	1.7	B3	0.1	B3	0.4	B3	26.9	B3
12.8	B3	174.7	B3	564.0	B3	0.0	A1	332.4	B3	83.2	B3	88.5	B3	3006.3	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	1	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	135	A1	0	N	100	A1	0	N	100	A1
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
0.5	A1	0	N	0	N	0	N	0	N	0	N	0	N
100	A1	100	A1	100	A1	0	N	100	A1	100	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	1	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

0.0	N	8.0	B3	0.0	N	11.8	B3	0.0	N	0.0	N	0.9	B3	222.0	B3
0.0	N	8.0	B3	0.0	N	11.8	B3	0.0	N	0.0	N	0.9	B3	222.0	B3
1	A1	8	A1	0	N	1	A1	0	N	0	N	0	N		
3,888	B3	503,453	B3	0	N	10,320	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	23,328	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	94,176	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		

0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	B4
0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	2.272	B4
0.000	N	3.117	B4	0.000	N	8.415	B3	1.442	B4	0.000	N	0.000	N	53.522	B4
0.000	N	0.024	B4	0.000	N	38.225	B3	1.052	B4	0.000	N	0.000	N	39.301	B3
0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.026	B4
0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	B4
0.000	N	0.000	N	4.253	B4	0.000	N	6.130	B4	0.000	N	0.000	N	10.929	B4
0.000	N	0.000	N	0.242	B4	0.000	N	0.000	N	0.000	N	0.000	N	0.242	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	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
E3a.0	Name	-	E3a.0			Ft William	Inverness	Hatton	Nigg	Persley	Peterhead	Fraserburgh	Lossie Mouth	Buckie	Banff/Macduff	Seafield	Newbridge	East Calder	Blackburn
<b>Sewerage Costs</b>																			
E3a.1	Estimated direct operating cost	-	E3a.1	£m	I/C	0.044 D6	0.147 D6	2.454 D6	2.298 D6	0.006 D6	0.055 D6	0.035 D6	0.545 D6	0.414 D6	0.304 D6	0.389 D6	0.001 D6	- N	- N
E3a.2	Rates paid by the PPP contractor	-	E3a.2	£m	I/C	- N	- N	- N	- N	- N	- N	- N	- N	- N	- N	- N	- N	- N	- N
E3a.3	SEPA charges paid by the PPP contractor	-	E3a.3	£m	I/C	0.001 A2	- N	0.011 A2	- A2	- N	- N	- N	0.005 A2	0.012 A2	0.008 A2	0.007 A2	0.001 A2	- N	- N
E3a.4	Total direct cost	-	E3a.4	£m	C	0.045 D6	0.147 D6	2.465 D6	2.298 D6	0.006 D6	0.055 D6	0.035 D6	0.550 D6	0.426 D6	0.312 D6	0.396 D6	0.002 D6	- N	- N
E3a.5	Scottish Water general & support expenditure	-	E3a.5	£m	I/C	0.001 CX	0.007 C4	0.056 C4	0.179 C4	- CX	0.002 C4	0.001 C4	0.014 C4	0.013 C4	0.009 C4	0.006 C4	- CX	- N	- N
E3a.6	Scottish Water SEPA charges	-	E3a.6	£m	I/C	- N	- N	- N	- N	- N	- N	- N	- N	- N	- N	- N	- N	- N	- N
E3a.7	Total sewerage cost	-	E3a.7	£m	C	0.046 D6	0.154 D6	2.521 D6	2.477 D6	0.006 D6	0.057 D6	0.036 D6	0.564 D6	0.439 D6	0.321 D6	0.402 D6	0.002 D6	- N	- N
<b>Sewage Treatment Costs</b>																			
E3a.8	Estimated direct operating cost	-	E3a.8	£m	I/C	0.700 D6	1.568 D6	1.976 D6	1.187 D6	0.941 D6	0.588 D6	0.570 D6	0.646 D6	0.492 D6	0.578 D6	10.394 D6	1.339 D6	0.636 D6	0.352 D6
E3a.9	Rates paid by the PPP contractor	-	E3a.9	£m	I/C	0.052 B3	0.170 B3	0.140 B3	0.379 B3	0.151 B3	0.067 B3	0.085 B3	0.046 B3	0.041 B3	0.054 B3	1.006 B3	0.094 B3	0.128 B3	0.071 B3
E3a.10	SEPA charges paid by the PPP contractor	-	E3a.10	£m	I/C	0.024 A2	0.184 A2	0.127 A2	0.310 A2	0.030 A2	0.035 A2	0.035 A2	0.036 A2	0.027 A2	0.025 A2	0.163 A2	0.023 A2	0.108 A2	0.020 A2
E3a.11	Total direct cost	-	E3a.11	£m	C	0.776 D6	1.922 D6	2.243 D6	1.876 D6	1.122 D6	0.690 D6	0.690 D6	0.728 D6	0.560 D6	0.657 D6	11.563 D6	1.456 D6	0.872 D6	0.443 D6
E3a.12	Scottish Water general & support expenditure	-	E3a.12	£m	I/C	0.020 C4	0.090 C4	0.079 C4	0.146 C4	0.024 C4	0.026 C4	0.026 C4	0.022 C4	0.018 C4	0.020 C4	0.178 C4	0.026 C4	0.022 C4	0.018 C4
E3a.13	Scottish Water SEPA charges	-	E3a.13	£m	I/C	- N	- N	- N	- N	- N	- N	- N	- N	- N	- N	- N	- N	- N	- N
E3a.14	Total sewage treatment cost	-	E3a.14	£m	C	0.796 D6	2.012 D6	2.322 D6	2.022 D6	1.146 D6	0.716 D6	0.716 D6	0.750 D6	0.578 D6	0.677 D6	11.741 D6	1.482 D6	0.894 D6	0.461 D6
E3a.15	Estimated terminal pumping cost	-	E3a.15	£m	I/C	0 M	0.002 A3	0.027 A3	0 N	0 N	0.000 N	0 M	0.003 A3	0 M	0 M	0 M	0 M	0 N	0 N
<b>Sludge Treatment and Disposal Costs</b>																			
E3a.16	Estimated direct operating cost	-	E3a.16	£m	I/C	- N	0.956 D6	2.805 D6	1.577 D6	- N	- N	- N	2.064 D6	- N	- N	2.465 D6	0.780 D6	- N	- N
E3a.17	Rates paid by the PPP contractor	-	E3a.17	£m	I/C	- N	0.086 B3	0.158 B3	0.333 B3	- N	- N	- N	0.158 B3	- N	- N	0.264 B3	0.088 B3	- N	- N
E3a.18	SEPA charges paid by the PPP contractor	-	E3a.18	£m	I/C	- N	0.019 A2	0.008 A2	0.001 A2	- N	- N	- N	- N	- N	- N	0.004 A2	- N	- N	- N
E3a.19	Total direct cost	-	E3a.19	£m	C	- N	1.061 D6	2.971 D6	1.911 D6	- N	- N	- N	2.222 D6	- N	- N	2.733 D6	0.868 D6	- N	- N
E3a.20	Scottish Water general & support expenditure	-	E3a.20	£m	I/C	- N	0.509 C4	0.186 C4	0.504 C4	- N	- N	- N	0.149 C4	- N	- N	0.041 C4	0.015 C4	- N	- N
E3a.21	Scottish Water SEPA charges	-	E3a.21	£m	I/C	- N	- N	- N	- N	- N	- N	- N	- N	- N	- N	- N	- N	- N	- N
E3a.22	Total sludge treatment & disposal cost	-	E3a.22	£m	C	- N	1.570 D6	3.157 D6	2.415 D6	- N	- N	- N	2.371 D6	- N	- N	2.774 D6	0.883 D6	- N	- N
<b>Total Cost Analysis</b>																			
E3a.23	Total direct cost	-	E3a.23	£m	C	0.821 D6	3.130 D6	7.679 D6	6.085 D6	1.128 D6	0.745 D6	0.725 D6	3.500 D6	0.986 D6	0.969 D6	14.692 D6	2.326 D6	0.872 D6	0.443 D6
E3a.24	Total Scottish Water cost	-	E3a.24	£m	C	0.021 C4	0.606 C4	0.321 C4	0.829 C4	0.024 C4	0.028 C4	0.027 C4	0.185 C4	0.031 C4	0.029 C4	0.225 C4	0.041 C4	0.022 C4	0.018 C4
E3a.25	Total operating cost	-	E3a.25	£m	C	0.842 D6	3.736 D6	8.000 D6	6.914 D6	1.152 D6	0.773 D6	0.752 D6	3.685 D6	1.017 D6	0.998 D6	14.917 D6	2.367 D6	0.894 D6	0.461 D6
E3a.26	Annual charge	-	E3a.26	£m	I/C	3.621 A1	6.738 A1	22.169 A1	13.140 A1	2.671 A1	2.347 A1	2.055 A1	4.427 A1	3.063 A1	3.434 A1	22.301 B3	3.004 B3	1.638 B3	0.819 B3
E3a.27	Public sector capital equivalent value	-	E3a.27	£m	I	23.584 B3	76.141 B3	204.447 B3	112.726 B3	27.376 B3	22.545 B3	27.376 B3	50.054 B3	36.945 B3	32.178 B3	87.550 B3	12.672 B3	6.912 B3	3.456 B3
<b>Contract Information</b>																			
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	30 A1
E3a.29	Contract end date	-	E3a.29	dd/mm/yy	I	12/12/21 A1	12/12/21 A1	16/12/29 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	30/11/29 A1	30/11/29 A1

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

150	160	170	180	190	200	210	199
<b>AVSE</b>	<b>Levenmouth</b>	<b>Dalmuir</b>	<b>Daldowie</b>	<b>MSI</b>	<b>MSI</b>	<b>MSI</b>	<b>Total</b>
CG	CG	CG	CG	CG	CG	CG	CG

Whitburn    Levenmouth    Dalmuir    Daldowie    Meadowhead    Stevenston    Inverclyde

-	DX	0.156	D6	-	N	0.501	D6	-	N	-	N	-	DX	7.349	D6
-	N	-	N	-	N	-	N	-	N	-	N	-	N	0.000	N
-	N	0.001	A2	-	N	-	N	-	N	-	N	-	N	0.046	A2
-	DX	0.157	D6	-	N	0.501	D6	-	N	-	N	-	DX	7.395	D6
-	CX	0.004	C4	-	N	0.021	C4	-	N	-	N	-	CX	0.313	C4
-	N	-	N	-	N	-	N	-	N	-	N	-	BX	0.000	BX
-	DX	0.161	D6	-	N	0.522	D6	-	N	-	N	-	DX	7.708	D6

0.482	D6	3.587	D6	3.192	D6	-	N	3.142	D6	1.675	D6	1.378	D6	35.423	D6
0.044	B3	0.234	B3	0.662	B3	-	N	0.238	B3	0.226	B3	0.104	B3	3.992	B3
0.014	A2	0.127	A2	-	N	-	N	-	N	-	N	-	N	1.288	A2
0.540	D6	3.948	D6	3.854	D6	-	N	3.380	D6	1.901	D6	1.482	D6	40.703	D6
0.019	C4	0.094	C4	0.066	C4	-	N	0.679	C4	0.263	C4	0.415	C4	2.251	C4
-	N	-	N	0.329	A2	-	N	0.350	A2	0.161	A2	0.054	A2	0.894	A2
0.559	D6	4.042	D6	4.249	D6	-	N	4.409	D6	2.325	D6	1.951	D6	43.848	D6
0	M	0	M	0	N	0	N	0.494	A3	0	N	0.067	A3	0.593	A3

-	N	1.455	D6	1.550	A3	12.512	D6	1.985	D6	-	N	-	N	28.149	D6
-	N	0.091	B3	-	N	0.333	A2	0.175	B3	-	N	-	N	1.686	B3
-	N	0.023	A2	-	N	0.050	A2	0.024	A2	-	N	-	N	0.129	A2
-	N	1.569	D6	1.550	A3	12.895	D6	2.184	D6	-	N	-	N	29.964	D6
-	N	0.038	C4	1.128	A3	1.788	C4	0.057	C4	-	N	-	N	4.415	C4
-	N	-	N	-	N	-	N	-	N	-	N	-	N	0.000	N
-	N	1.607	D6	2.678	A3	14.683	D6	2.241	D6	-	N	-	N	34.379	D6

0.540	D6	5.674	D6	5.404	D6	13.396	D6	5.564	D6	1.901	D6	1.482	D6	78.062	D6
0.019	C4	0.136	C4	1.523	C4	1.809	C4	1.086	C4	0.424	C4	0.469	C4	7.873	C4
0.559	D6	5.810	D6	6.927	D6	15.205	D6	6.650	D6	2.325	D6	1.951	D6	85.935	D6
1.092	B3	12.521	A1	14.105	A1	20.735	A1	7.342	A1	3.743	A1	3.730	A1	154.695	A1
4.608	B3	43.765	B3	75.978	B3	115.115	B3	79.896	B3	22.637	B3	21.838	B3	1087.799	B3

30	A1	40	A1	25	A1	24	A1	30	A1	30	A1	30	A1
30/11/29	A1	30/10/40	A1	15/06/26	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	Number of Own Sources				Total Number of Sources	Own Source Outputs				Total Source Outputs	CG
						Area 1	Area 2	Area 3	Area 4		Area 1	Area 2	Area 3	Area 4		
<b>Source Types</b>						10	20	30	40	100	110	120	130	140	200	299
E4.0	Area Name	-	E4.0	-	I	<b>number</b>					<b>average daily output (MI/d)</b>					
E4.1	Impounding reservoirs	T12, L1	E4.1	nr, MI/d	I/C	North	East	South	West		North	East	South	West	MI/d	
E4.2	Lochs	-	E4.2	nr, MI/d	I/C	31	20	25	29	105	78.397	292.020	438.034	534.569	1343.020	B2
E4.3	River and burn abstractions	T12, L2	E4.3	nr, MI/d	I/C	30	8	0	1	39	10.910	9.358	0.000	0.000	20.268	B2
E4.4	Boreholes	T12, L3	E4.4	nr, MI/d	I/C	45	15	1	14	75	11.764	157.051	0.019	196.942	365.776	B2
E4.5	Total	-	E4.5	nr, MI/d	C	23	28	11	1	63	17.728	24.713	21.385	3.062	66.889	B2
E4.6	Bulk water exports	-	E4.6	nr, MI/d	I/C	129	71	37	45	282	118.799	483.142	459.438	734.573	1795.953	AX
E4.7	Bulk water imports	-	E4.7	nr, MI/d	I/C	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0.000	AX
						0.000	0.000	0.000	0.000	0	0.000	0.000	0.000	0.000	0.000	

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

Proportional Breakdown of Source output produced					Proportion of Own Source Output
Area 1	Area 2	Area 3	Area 4	CG	
0.044	0.163	0.244	0.298	0.748	
0.006	0.005	0.000	0.000	0.011	
0.007	0.087	0.000	0.110	0.204	
0.010	0.014	0.012	0.002	0.037	
0.066	0.269	0.256	0.409	1.000	

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

10	20
<b>Total</b>	<b>CG</b>
1.046	C3
28.3	C4

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

Resource and treatment - Costs					110	CG
Area 1	Area 2	Area 3	Area 4	Total		
2.853	3.818	1.999	4.483	13.153	A2	
0.555	0.578	0.616	0.780	2.529	A2	
11.291	13.284	9.981	17.178	51.734	A2	
3.797	2.414	0.548	3.015	9.774	A2	
15.088	15.698	10.529	20.193	61.508	A2	

Water Treatment Works by Process Type					
E4.20	Simple Disinfection	T12, L6	E4.17	nr, MI/d, £m	I/C
E4.21	W1	T12, L7	E4.18	nr, MI/d, £m	I/C
E4.22	W2	T12, L8	E4.19	nr, MI/d, £m	I/C
E4.23	W3	T12, L9	E4.20	nr, MI/d, £m	I/C
E4.24	W4	T12, L10	E4.21	nr, MI/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	MI/d	C
E4.27	Total Operating costs	-	-	£m	C

Total Nr of Works		Total volume Dist'n input		Tot. prop'n of D.I.	Operating Costs	
nr	CG	MI/d	CG	Prop'n (0-1)	£m	CG
23	A2	20.660	B3	0.012	1.451	A2
5	A2	0.176	B3	0.000	0.184	A2
28	A2	613.561	B3	0.342	13.639	A2
151	A2	1107.233	B3	0.617	39.726	A2
35	A2	54.323	B3	0.030	6.508	A2
242	A2					
		1795.953	B3	1.000		
					61.508	A2

Water Treatment Works by Size Band					
E4.28	Size band <=1 MI/d	-	E4.30, E4.47	nr, £m	I/C
E4.29	Size band >1 - <=2.5 MI/d	-	E4.31, E4.48	nr, £m	I/C
E4.30	Size band >2.5 - <=5 MI/d	-	E4.32, E4.49	nr, £m	I/C
E4.31	Size band >5 - <=10 MI/d	-	E4.33, E4.50	nr, £m	I/C
E4.32	Size band >10 - <=25 MI/d	-	E4.34, E4.51	nr, £m	I/C
E4.33	Size band >25 - <=50 MI/d	-	E4.35, E4.53	nr, £m	I/C
E4.34	Size band >50 - <=100 MI/d	-	E4.36, E4.54	nr, £m	I/C

Nr of Works		Prop'n of D.I.		Operating Costs	
nr	CG	Prop'n (0-1)	CG	£m	CG
132	A2	0.011627176	C3	9.609	A2
24	A2	0.012665044	C3	3.972	A2
22	A2	0.027259379	C3	4.184	A2
19	A2	0.049255088	C3	5.590	A2
18	A2	0.105802615	C3	10.421	A2
12	A2	0.155015596	C3	9.593	A2
9	A2	0.229002663	C3	7.368	A2

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			E4.39	nr	C
E4.38	Proportion of distribution input - total	-	E4.40	nr	C
E4.39	Total operating costs	-	E4.57	£m	C

4	A2	0.2177798	C3	5.716	A2
2	A2	0.19159264	C3	5.055	A2
242	A2				
			1	C3	
				61.508	A2

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

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

Re-issued following query process - Updated 27Jul18

Line Ref.	Description	Ofwat Ref	WICS Reference	Units	Field Type
		CMR 02, JR07	AR 06		

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 <sup>2</sup>	I/C
E6.6	Number of supply zones	-	E6.7	nr	I/C

Distribution costs					
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 mains 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 <sup>3</sup> /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, L13	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: .....	Date: .....

Report Year 2017-18									
Area 1		Area 2		Area 3		Area 4		Total	
CG		CG		CG		CG		CG	

North		East		South		West			
279.4	A2	1356.8	A2	1782.0	A2	1821.4	A2	5239.7	A2
157.829	B4	685.974	B4	886.369	B4	938.526	B4	2668.697	B4
51.970	B2	231.930	B2	302.070	B2	318.080	B2	904.050	B2
21.640	B4	105.550	B4	102.010	B4	171.920	B4	401.120	B4
35208.130	A1	20371.058	A1	15475.460	A1	8744.388	A1	79799.036	A1
117	A1	64	A1	56	A1	63	A1	300	A1

0.772	A2	3.451	A2	1.657	A2	2.665	A2	8.545	A2
0.000	A2	0.000	A2	0.000	A2	0.000	A2	0.000	A2
6.533	A2	13.399	A2	13.818	A2	17.891	A2	51.641	A2
2.657	A2	4.089	A2	4.560	A2	5.363	A2	16.669	A2
9.190	A2	17.488	A2	18.378	A2	23.254	A2	68.310	A2

6305.01	B2	11583.81	B2	10012.68	B2	7915.86	B2	35817.35	B2
1228.79	B2	2426.50	B2	2787.47	B2	2334.45	B2	8777.21	B2
174.02	B2	979.43	B2	1159.22	B2	771.00	B2	3083.67	B2
8.01	B2	140.15	B2	301.96	B2	408.21	B2	858.32	B2
7715.83	B2	15129.88	B2	14261.33	B2	11429.51	B2	48536.56	B2
757.76	B2	3135.79	B2	6065.08	B2	4915.68	B2	14874.31	B2
182.03	B2	1119.57	B2	1461.18	B2	1179.21	B2	3942.00	B2
1085	B3	1553	B3	2498	B3	2514	B3	7650	B3
48.299	B3	106.661	B3	168.202	B3	219.581	B3	542.743	B3
44	B2	315	B2	33	B2	23	B2	415	B2

177	B2	184	B2	132	B2	111	B2	604	B2
150169	C4	701543	C4	549851	C4	974769	C4	2376332	C4
2774.2	C3	13307.1	C3	9538.1	C3	16122.6	C3	41742.1	C3
22.30	C4	29.88	C4	33.62	C4	29.89	C4	30.34	C4

396	B2	447	B2	244	B2	225	B2	1312	B2
216.675	B2	1190.671	B2	959.493	B2	1614.131	B2	3980.970	B2

3	B2	5	B2	6	B2	4	B2	18	B2
0.532	B2	3.613	B2	12.544	B2	12.577	B2	29.266	B2

**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 10	Units	Field Type
<b>Area Data</b>					
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	MI/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	km2	I/C
E7.7	Annual Precipitation	-	E7.7	mm	I

<b>Sewerage Data</b>					
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

<b>Sewerage costs</b>					
E7.15	Power	T22, L2	E2.2	£m	I/C
E7.16	Service charges by SEPA	T22, L7	E2.5	£m	I/C
E7.17	Total direct costs	T22, L9	E2.7	£m	C
E7.18	General and support costs	T22, L10	E2.8	£m	I/C
E7.19	Functional expenditure	T22, L11	E2.9	£m	C

<b>Pumping Stations</b>					
E7.20	Total number of pumping stations	-	E7.15	nr	I/C
E7.21	Total capacity of pumping stations (m <sup>3</sup> /d)	-	E7.16	m <sup>3</sup> /d	I/C
E7.22	Total capacity of pumping stations (kw)	-	E7.16a	Kw	I/C
E7.23	Average pumping head	-	E7.17	m	I
E7.24	Total number of combined pumping stations	-	E7.18	nr	I/C
E7.25	Total capacity of combined pumping stations	-	E7.19	m <sup>3</sup> /d	I/C
E7.26	Total number of stormwater pumping stations	-	E7.20	nr	I/C
E7.27	Total capacity of stormwater pumping stations	-	E7.21	m <sup>3</sup> /d	I/C
E7.28	Number of combined sewer overflows	-	E7.22	nr	I/C
E7.29	Number of combined sewer overflows (screened)	-	E7.23	nr	I/C

<b>Sewage treatment works</b>					
E7.30	Number of sewage treatment works	-	-	nr	I/C
E7.31	Total Load	-	-	kg BOD/day	I/C

<b>Sewage treatment costs</b>					
E7.32	Power	T22, L2	E2.2	£m	I/C
E7.33	Service charges by SEPA	T22, L7	E2.5	£m	I/C
E7.34	Total direct costs	T22, L9	E2.7	£m	I/C
E7.35	General and support costs	T22, L10	E2.8	£m	I/C
E7.36	Functional expenditure	T22, L11	E2.9	£m	I/C

Report Year 2017-18									
Area 1		Area 2		Area 3		Area 4		Total	
CG		CG		CG		CG		CG	

North	East	South	West	
218.7 B2	1246.7 B2	1600.8 B2	1867.0 B2	4933.2 B2
25.2 C4	30.5 C4	14.8 C4	18.0 C4	88.5 C4
178.8 C3	749.2 C3	1010.5 C3	1121.8 C3	3060.3 C3
125806 B4	650820 B4	847533 B4	915679 B4	2539839 B4
35208 A1	20371 A1	15475 A1	8744 A1	79799 A1
153.772 A1	520.460 A1	618.643 A1	643.574 A1	1936 A1
1188 A2	1001 A2	1097 A2	1325 A2	1147 A2

3939 B2	14143 B2	18012 B2	16918 B2	53012 B2
895 B2	4671 B2	6253 B2	6628 B2	18447 B2
1440 B2	4397 B2	5477 B2	6171 B2	17486 B2
555 B2	2411 B2	3276 B2	2158 B2	8400 B2
15 B2	155 B2	259 B2	371 B2	799 B2
823 A2	2837 A2	3707 A2	3562 A2	10930 A2
35 B4	301 B4	533 B4	583 B4	1452 B4

1 A2	2 A2	2 A2	3 A2	7 A2
0 A2	1 A2	1 A2	1 A2	2 A2
4 A2	8 A2	10 A2	11 A2	32 A2
1.8 A2	2.4 A2	3.5 A2	3.3 A2	11 A2
6 A2	10 A2	13 A2	14 A2	43 A2

527 A3	804 A3	448 A3	464 A3	2243 A3
1683065 C4	3315906 C4	3179585 C4	5403729 C4	13582286 C4
9738 C4	24710 C4	14831 C4	32576 C4	81856 C4
48.0 C5	23.9 C5	16.6 C5	30.2 C5	32.0 C5
316 A3	464 A3	261 A3	290 A3	1331 A3
1189109 C4	2443530 C4	2470774 C4	3864069 C4	9967482 C4
17 A3	17 A3	6 A3	9 A3	49 A3
135272 C4	176052 C4	68121 C4	341093 C4	720537 C4
357 A3	734 A3	957 A3	1035 A3	3083 A3
222 A3	218 A3	356 A3	449 A3	1245 A3

565 A3	588 A3	487 A3	203 A3	1843 A3
13099 B3	45093 B3	69389 B3	95004 B3	222585 B3

1.971 A2	3.899 A2	5.865 A2	5.562 A2	17.297 A2
1.217 A2	1.828 A2	2.133 A2	1.501 A2	6.679 A2
7.052 A2	11.427 A2	16.008 A2	13.281 A2	47.768 A2
1.870 A2	2.790 A2	3.293 A2	3.010 A2	10.963 A2
8.922 A2	14.217 A2	19.301 A2	16.291 A2	58.731 A2

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





110		199	
		<b>Total</b>	
Sea Unscreened	CG		CG

12	B3	1119	B3
1	B3	211	B3
0	AX	148	B3
0	AX	181	B3
1	B3	124	B3
0	AX	39	B3
0	AX	21	B3
14	B3	1843	B3
0	AX	45	A1
0	AX	63	A1

		<b>Total excluding Septic Tanks</b>	
32	B3	458	B3
7	B3	1026	B3
0	AX	2055	B3
0	AX	10365	B3
452	B3	36536	B3
0	AX	33788	B3
0	AX	132394	B3
492	B3	216623	B3
0	AX	8687	B3
0	AX	52916	B3

100.0	B2
100.0	B2
0.0	AX
0.0	AX
100.0	B2
0.0	AX
0.0	AX
0.0	AX
100.0	B2
0.0	AX
0.0	AX

		<b>Total</b>	
7.803	A2	1664.536	A2
1.594	A2	1817.887	A2
0.000	AX	2901.419	A2
0.000	AX	7326.442	A2
46.309	A2	12352.612	A2
0.000	AX	9029.483	A2
0.000	AX	12675.906	A2
55.706	A2	47768.285	A2
4.065	A2	10962.902	A2
59.771	A2	58731.187	A2
12.328	A2	17296.677	A2
30.245	A2	6679.039	A2

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

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		
						1	2	3	4	5	6	7	8	9	10	11		
<b>Works Size</b>						CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	
<b>Works Size</b>						STW000011	STW001979	STW000033	STW000125	STW001975	STW000218	STW000222	STW003728	STW001984	STW000265	STW000281		
E9.0	Name	T17b, L1	E9.0	Name	I	Allers South	Alloa West	Ardoch West	Carbarns South	Dalderse West	Daldowie South	Dalmarnock West	Dunbar South	Dunfermline East	Dunnswood West	Erskine West		
E9.0a	Name of operational area	-	-	Name	I													
E9.1	Population equivalent of total load received	T17b, L2	E9.5	000	I	43 B3	44 B3	59 B3	49 B3	92 B3	292 B3	269 B3	28 B3	82 B3	30 B3	81 B3		
<b>Compliance</b>																		
E9.2	Suspended solids consent	T17b, L3	E9.11	mg/l	I	100 A1	100 A1	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	15 A1	20 A1	15 A1	25 A1	20 A1	75 A1	6 A1	75 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	
E9.5	Ammonia consent	T17b, L6	E9.14	mg/l	I	5 A1	30 A1	0 A1	2 A1	25 A1	5 A1	11 A1	4 A1	0 A1	1 A1	40 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	
E9.7	Compliance with effluent consent standard	-	E9.16	%	I	100 A1	100 A1	100 A1	96 A1	100 A1	98 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	
<b>Treatment Works Category</b>																		
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	
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	
E9.10	Secondary biological	T17b, L8	E9.21	1/0	I	1 A1	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	1 A1	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	1 A1	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	
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	
<b>Works Cost</b>																		
E9.15	Power costs	T17b, L10	E9.34	£'000	I	115.606 A2	198.771 A2	141.765 A2	209.561 A2	115.623 A2	825.623 A2	999.205 A2	237.027 A2	83.017 A2	154.464 A2	338.653 A2		
E9.16	Service charges SEPA	T17b, L11	E9.37	£'000	I	27.141 A2	30.719 A2	46.627 A2	44.177 A2	61.805 A2	77.489 A2	75.872 A2	9.948 A2	51.009 A2	24.682 A2	54.069 A2		
E9.17	Total direct costs	T17b, L9	E9.39	£'000	I	295.651 A2	445.900 A2	354.142 A2	390.233 A2	546.897 A2	1007.459 A2	1306.868 A2	349.878 A2	307.599 A2	295.586 A2	489.584 A2		
E9.18	General and support expenditure	T17b, L12	E9.40	£'000	I	86.996 A2	100.354 A2	84.745 A2	40.756 A2	32.137 A2	52.221 A2	122.490 A2	50.564 A2	67.513 A2	34.944 A2	37.358 A2		
E9.19	Functional Expenditure	T17b, L13	E9.41	£'000	C	382.647 A2	546.254 A2	438.887 A2	430.989 A2	579.034 A2	1059.680 A2	1429.358 A2	400.442 A2	375.112 A2	330.530 A2	526.942 A2		
E9.20	Estimated terminal pumping station costs	T17b, L14	E9.42	£'000	I	0 N	0 N	101 A2	71 A2	0 N	0 N	0 N	300 A2	25 A2	0 N	0 N	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	

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



**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	
						Farmland Untreated	Farmland Conventional	Farmland Advanced	Incineration	Landfill	Composted	Land Reclamation	Other		
						CG	CG	CG	CG	CG	CG	CG	CG	CG	
<b>Sludge volumes</b>															
E10.1	Resident population served	T17g, L1	E10.1	000	I	0.0	234.5	920.6	1077.0	16.5	0.0	226.3	0.0	2474.846	
E10.2	Amount of sewage sludge	T17g, L2	E10.2	ttds	I	0.0	2.8	8.7	0.0	0.4	0.0	1.9	0.0	13.748	
<b>Sludge Treatment and Disposal costs</b>															
E10.3	Sludge Treatment direct costs	T17g, L3	-	£000	I	0.000	2248.880	2809.345	0.000	289.444	0.000	3388.378	0.000	8736.047	
E10.4	Sludge disposal direct costs	T17g, L4	-	£000	I	0.000	395.774	674.775	0.000	309.930	0.000	1207.168	0.000	2587.647	
E10.5	Sludge treatment & disposal: Power costs	T17g, L6	E10.4	£000	I	0.000	648.802	482.447	0.000	37.241	0.000	678.075	0.000	1846.565	
E10.6	Sludge treatment & disposal: Service charges SEPA	T17g, L7	E10.7	£000	I	0.000	7.989	20.001	0.000	4.924	0.000	28.422	0.000	61.336	
E10.7	Sludge treatment & disposal: Total direct costs	T17g, L5	E10.9	£000	C	0.000	2644.654	3484.120	0.000	599.374	0.000	4595.546	0.000	11323.694	
E10.8	Sludge treatment and disposal: General and support expenditure	T17g, L8	E10.10	£000	I	0.000	750.368	1110.333	0.000	336.423	0.000	1432.192	0.000	3629.316	
E10.9	Sludge Treatment and disposal: Functional Expenditure	T17g, L9	E10.11	£000	C	0.000	3395.022	4594.453	0.000	935.797	0.000	6027.738	0.000	14953.010	

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