

4N.14



Total Functional expenditure for Sewage treatment

4N - Sewage treatment - Functional expenditure Southern Water For the 12 months ended 31 March 2019 Line description DPs Network+ Unit Costs of STWs in size bands 1 to 5 Α 2138.341 4N.1 Direct costs of STWs in size band 1 £000 3 4N.2 Direct costs of STWs in size band 2 1197.730 3 £000 4N.3 Direct costs of STWs in size band 3 6252.325 £000 3 4N.4 Direct costs of STWs in size band 4 8647.730 £000 3 5405.158 4N.5 Direct costs of STWs in size band 5 £000 3 6136.085 4N.6 General & support costs of STWs in size bands 1 to 5 3 £000 4N.7 Functional expenditure of STWs in size bands 1 to 5 £000 3 29777.369 Costs of STWs in size band 6 В Service charges for STWs in size band 6 1083.000 4N.8 £000 3 Estimated terminal pumping costs size band 6 works 4N.9 £000 3 0.000 Other direct costs of STWs in size band 6 25954.000 4N.10 £000 3 4N.11 Direct costs of STWs in size band 6 27037.000 £000 3 4N.12 General & support costs of STWs in size band 6 3 12010.000 £000 Functional expenditure of STWs in size band 6 39047.000 4N.13 3 £000

68824.369

3

£000





For the 12 months ended 31 March 2019									
Line description	Units	DPs	STWNAMED01	STWNAMED02	STWNAMED03	STWNAMED04	STWNAMED05	STWNAMED06	STWNAMED07

Α	Sewage treatment works - Explanatory variables									
40.1	Works name	Text	0	ASHFORD	AYLESFORD	BEXHILL AND HASTINGS	BROOMFIELD BANK	BUDDS FARM	CANTERBURY	CHICHESTER
40.2	Classification of treatment works	Text	0	TB2	TB2	TB2	TB2	TB2	TB2	TB2
40.3	Population equivalent of total load received	000	2	91.74	129.28	142.65	114.17	368.23	65.22	39.46
40.4	Suspended solids consent	mg/l	0	17	60	150	150	60	20	45
40.5	BOD _s consent	mg/l	0	11	25	25	25	25	15	25
40.6	Ammonia consent	mg/l	0	2					4	
40.7	Phosphorus consent	mg/l	0	1					2	
40.8	UV consent	mW/s/cm ²	0	0	0	0	0	0	0	32
40.9	Load received by STW	kgBOD₅/d	0	5504	7757	8559	6850	22094	3913	2368
40.10	Flow passed to full treatment	m³/d	0	27,336	22,053	40,865	37,882	118,891	19,988	16,879

В	Sewage treatment works - Functional expenditure									
40.11	Service charges	£000	0	33.000	29.000	24.000	37.000	56.000	18.000	19.000
40.12	Estimated terminal pumping expenditure	£000	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.13	Other direct expenditure	£000	0	588.000	149.000	388.000	1330.000	725.000	55.000	261.000
40.14	Total direct expenditure	£000	0	621	178	412	1367	781	73	280
40.15	General and support expenditure	£000	0	483.000	204.000	213.000	478.000	887.000	152.000	228.000
40.16	Functional expenditure	£000	0	1104	382	625	1845	1668	225	508



40.16

Functional expenditure



40 - Large sewage treatment works - Wholesale wastewater

For the 12 months ended 31 March 2019

Line descripti	on	Units	DPs	STWNAMED08	STWNAMED09	STWNAMED10	STWNAMED11	STWNAMED12	STWNAMED13	STWNAMED14
A	Sewage treatment works - Explanatory variables	1								
40.1	Works name	Text	0	CHICKENHALL EASTLIEGH	EASTBOURNE	FAIRLEE	FAVERSHAM	FORD	FULLERTON	GODDARDS GREEN
40.2	Classification of treatment works	Text	0	TB2	TB2	TB2	TB2	TB2	TB2	TB2
40.3	Population equivalent of total load received	000	2	97.05	117.44	0.00	28.29	132.77	55.88	49.19
40.4	Suspended solids consent	mg/l	0	20	150	0	60	150	20	11
40.5	BOD ₅ consent	mg/l	0	12	25	0	25	25	10	7
40.6	Ammonia consent	mg/l	0	3		0			3	3
40.7	Phosphorus consent	mg/l	0	1		0			1	2
40.8	UV consent	mW/s/cm ²	0	0	0	0	0	0	0	0
40.9	Load received by STW	kgBOD₅/d	0	5823	7046	0	1697	7966	3353	2951
40.10	Flow passed to full treatment	m³/d	0	33,803	35,741	0	6,755	38,263	20,981	12,635
D	Sewage treatment works - Functional expenditure	1								
B		£000		0.4.000	00.000	0.000	40.000	00.000	45.000	40.000
40.11	Service charges		0	34.000						
40.12	Estimated terminal pumping expenditure	£000	0	0.000						
40.13	Other direct expenditure	£000	0	704.000						
40.14	Total direct expenditure	£000	0	738			170	-		
40.15	General and support expenditure	£000	0	378.000	934.000	0.000	74.000	247.000	166.000	217.000

2988

244

794

1116

£000

0

561

496





For the 12 mor	ths ended 31 March 2019									
Line description	on	Units	DPs	STWNAMED15	STWNAMED16	STWNAMED17	STWNAMED18	STWNAMED19	STWNAMED20	STWNAMED21
А	Sewage treatment works - Explanatory variables									
40.1	Works name	Text	0	GRAVESEND	HAILSHAM SOUTH	HAILSHAM SOUTH NEW WORKS	HAM HILL	HERNE BAY	HORSHAM NEW	MILLBROOK
40.2	Classification of treatment works	Text	0	TB2	TB2	TB2	TB2	TB2	TB2	TB2
40.3	Population equivalent of total load received	000	2	63.13	29.44	0.00	59.72	42.37	73.55	143.55
40.4	Suspended solids consent	mg/l	0		10	0	38	15	12	40
40.5	BOD₅ consent	mg/l	0	25	7	0	25	10	8	25
40.6	Ammonia consent	mg/l	0	60	2	0	25	3	3	
40.7	Phosphorus consent	mg/l	0		1	0		2	1	
40.8	UV consent	mW/s/cm ²	0	0	0	0	0	0	0	0
40.9	Load received by STW	kgBOD₅/d	0	3788	1766	0	3583	2542	4413	8613
40.10	Flow passed to full treatment	m³/d	0	11,150	9,002	0	14,598	0	15,246	45,622
В	Sewage treatment works - Functional expenditure									
40.11	Service charges	£000	0	35.000	19.000	0.000	17.000	18.000	18.000	34.000
40.12	Estimated terminal pumping expenditure	£000	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.13	Other direct expenditure	£000	0	381.000	395.000	0.000	134.000	456.000	377.000	1038.000
40.14	Total direct expenditure	£000	0	416	414	0	151	474	395	1072
40.15	General and support expenditure	£000	0	93.000	169.000	0.000	145.000	178.000	371.000	399.000
40.16	Functional expenditure	£000	0	509	583	0	296	652	766	1471





For the 12 months ended 31 March 2019

Line description	Units	DPs	STWNAMED22	STWNAMED23	STWNAMED24	STWNAMED25	STWNAMED26	STWNAMED27	STWNAMED28	
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Α	Sewage treatment works - Explanatory variables									
40.1	Works name	Text	0	MORESTEAD	MOTNEY HILL	NEWHAVEN EAST	NORTHFLEET	PEEL COMMON		PORTSLADE SHOREHAM
40.2	Classification of treatment works	Text	0	TB2	TB2	TB2	TB2	TB2	TB2	TB2
40.3	Population equivalent of total load received	000	2	38.52	263.59	59.84	58.87	274.05	52.69	57.42
40.4	Suspended solids consent	mg/l	0	60	60	150		30	49	150
40.5	BOD₅ consent	mg/l	0	25	25	25	25	25	25	25
40.6	Ammonia consent	mg/l	0	5	60		50			
40.7	Phosphorus consent	mg/l	0	1						
40.8	UV consent	mW/s/cm ²	0	0	0	0	0	0	30	0
40.9	Load received by STW	kgBOD₅/d	0	2311	15815	3590	3532	16443	3161	3445
40.10	Flow passed to full treatment	m³/d	0	9,954	41,537	15,228	10,273	79,741	22,232	8,971

В	Sewage treatment works - Functional expenditure									
40.11	Service charges	£000	0	20.000	33.000	20.000	19.000	34.000	21.000	21.000
40.12	Estimated terminal pumping expenditure	£000	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.13	Other direct expenditure	£000	0	433.000	764.000	109.000	527.000	1855.000	656.000	332.000
40.14	Total direct expenditure	£000	0	453	797	129	546	1889	677	353
40.15	General and support expenditure	£000	0	185.000	282.000	62.000	173.000	832.000	247.000	115.000
40.16	Functional expenditure	£000	0	638	1079	191	719	2721	924	468



For the 1	12 months	ended 31	March 2019	
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Line description	Units	DPs	STWNAMED29	STWNAMED30	STWNAMED31	STWNAMED32	STWNAMED33	STWNAMED34	STWNAMED35	
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Α	Sewage treatment works - Explanatory variables									
40.1	Works name	Text	0	PORTSWOOD	QUEENBOROUGH	SANDOWN	SCAYNES HILL	SITTINGBOURNE	SLOWHILL COPSE	SWALECLIFFE
40.2	Classification of treatment works	Text	0	TB2	TB2	TB2	TB2	TB2	TB2	TB2
40.3	Population equivalent of total load received	000	2	79.00	44.04	134.12	38.91	71.39	64.33	36.54
40.4	Suspended solids consent	mg/l	0	80	60	150	25	100	60	150
40.5	BOD₅ consent	mg/l	0	25	25	25	15	25	25	25
40.6	Ammonia consent	mg/l	0				5			
40.7	Phosphorus consent	mg/l	0				2			
40.8	UV consent	mW/s/cm ²	0	0	0	0	0	0	0	24
40.9	Load received by STW	kgBOD ₅ /d	0	4740	2642	8047	2335	4283	3860	2192
40.10	Flow passed to full treatment	m³/d	0	25,357	14,031	46,984	10,424	13,656	20,153	9,388

В	Sewage treatment works - Functional expenditure									
40.11	Service charges	£000	0	34.000	15.000	33.000	18.000	19.000	19.000	20.000
40.12	Estimated terminal pumping expenditure	£000	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.13	Other direct expenditure	£000	0	656.000	238.000	1438.000	116.000	448.000	870.000	531.000
40.14	Total direct expenditure	£000	0	690	253	1471	134	467	889	551
40.15	General and support expenditure	£000	0	251.000	126.000	557.000	236.000	186.000	277.000	177.000
40.16	Functional expenditure	£000	0	941	379	2028	370	653	1166	728





40 - Large sewage treatment works - Wholesale wastewater For the 12 months ended 31 March 2019

For the 12 mo	nths ended 31 March 2019									
Line description		Units	DPs	STWNAMED36	STWNAMED37	STWNAMED38	STWNAMED39	STWNAMED40	STWNAMED41	STWNAMED42
А	Sewage treatment works - Explanatory variables									
40.1	Works name	Text	0	TONBRIDGE		TUNBRIDGE WELLS SOUTH	WEATHERLEES HILL	WHITEWALL CREEK	WEATHERLEES HILL B	WOOLSTON
40.2	Classification of treatment works	Text	0	TB2	TB2	TB2	TB2	TB2	TB2	TB2
40.3	Population equivalent of total load received	000	2	45.59	31.74	30.40	91.29	31.83	92.70	67.69
40.4	Suspended solids consent	mg/l	0	30	20	18	35	60	60	60
40.5	BOD₅ consent	mg/l	0	20	8	12	25	25	25	25
40.6	Ammonia consent	mg/l	0	10	3	4	5	20		
40.7	Phosphorus consent	mg/l	0	2	2	2				
40.8	UV consent	mW/s/cm ²	0	0	0	0	0	0	31	0
40.9	Load received by STW	kgBOD _s /d	0	2735	1904	1824	5477	1910	5562	4061
40.10	Flow passed to full treatment	m³/d	0	12,763	8,053	10,201	19,626	6,406	21,170	14,628
В	Sewage treatment works - Functional expenditure									
40.11	Service charges	£000	0	20.000	19.000	20.000	33.000	19.000	37.000	20.000
40.12	Estimated terminal pumping expenditure	£000	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.13	Other direct expenditure	£000	0	417.000	396.000	347.000	1258.000	253.000	329.000	683.000
40.14	Total direct expenditure	£000	0	437	415	367	1291	272	366	703
40.15	General and support expenditure	£000	0	214.000	189.000	179.000	473.000	106.000	74.000	312.000
40.16	Functional expenditure	£000	0	651	604	546	1764	378	440	1015





40 - Large sewage treatment works - Wholesale wastewater Southern Water For the 12 months ended 31 March 2019 Line description Units DPs STWNAMED43 STWNAMED44 STWNAMED45 Sewage treatment works - Explanatory variables PORTOBELLO 40.1 Works name Text 0 WORTHING EAST PEACEHAVEN BRIGHTON 40.2 0 TB2 TB2 Classification of treatment works Text TB2 40.3 Population equivalent of total load received 000 2 141.73 296.69 0.00 40.4 0 150 150 Suspended solids consent mg/l 40.5 25 25 BOD, consent 0 mg/l 40.6 Ammonia consent mg/l 0 40.7 0 Phosphorus consent mg/l 40.8 UV consent 0 22 mW/s/cm2 40.9 Load received by STW kgBOD_s/d 0 8504 17801 40.10 0 Flow passed to full treatment m³/d 40,323 61,992 Sewage treatment works - Functional expenditure В 0.000 40.11 Service charges £000 0 32.000 57.000 40.12 Estimated terminal pumping expenditure £000 0 0.000 0.000 0.000 £000 0 1079.000 1902.000 0.000 40.13 Other direct expenditure 40.14 0 1111 1959 Total direct expenditure £000 40.15 £000 0 353.000 388.000 General and support expenditure 0.000 £000 0 1464 2347 40.16 Functional expenditure





4P - Non-financial data for WR, WT and WD - Wholesale water Southern Water For the 12 months ended 31 March 2019 Line Units DPs Current year Line description Water resources 4P.1 Proportion of distribution input derived from impounding reservoirs Propn 0 to 1 3 0.041 4P2 Proportion of distribution input derived from pumped storage reservoirs Propn 0 to 1 3 0.000 4P.3 Proportion of distribution input derived from river abstractions Propn 0 to 1 3 0.292 Proportion of distribution input derived from groundwater works, excluding managed aquifer recharge (MAR) Propn 0 to 1 3 0.667 4P.4 water supply schemes 4P.5 Proportion of distribution input derived from artificial recharge (AR) water supply schemes Propn 0 to 1 3 0.000 4P.6 Proportion of distribution input derived from aquifer storage and recovery (ASR) water supply schemes Propn 0 to 1 0.000 4P.7 Proportion of distribution input derived from saline abstractions Propn 0 to 1 3 0.000 4P.8 Proportion of distribution input derived from water reuse schemes Propn 0 to 1 3 0.000 4P.9 Number of impounding reservoirs nr 0 3 4P.10 Number of pumped storage reservoirs 0 4P.11 6 Number of river abstractions nr 0 4P.12 Number of groundwater works excluding managed aquifer recharge (MAR) water supply schemes nr 0 82 4P.13 0 Number of artificial recharge (AR) water supply schemes nr 0 4P 14 Number of aquifer storage and recovery (ASR) water supply schemes nr n 0 4P.15 0 0 Number of saline abstraction schemes nr 4P 16 Total number of sources nr 0 93 4P.17 0 0 Number of reuse schemes nr 4P 18 Total number of water reservoirs 0 nr 4P.19 МІ 0 43685 Total capacity of water reservoirs 4P 20 Total number of intake and source pumping stations nr n 221 4P.21 0 Total number of raw water transport stations nr 4P 22 Total capacity of intake and source pumping stations kW n 36420 4P.23 kW 0 951 Total capacity of raw water transfer pumping stations 4P.24 Total length of raw water abstraction mains and other conveyors km 2 67 51 4P.25 m.hc 2 36.35 Average pumping head – raw water abstraction 4P.26 Average pumping head - raw water transport m.hd 2 3 27 4P.27 Total length of raw and pre-treated (non-potable) water transport mains km 2 84.44 4P.28 Water resources capacity (measured using water resources yield) MI/d 2 757.62 В Water treatment 4P 29 Total water treated at all SW simple disinfection works MI/d 2 0.00 4P.30 Total water treated at all SW1 works 0.00 4P31 Total water treated at all SW2 works MI/d 2 0.00 4P.32 Total water treated at all SW3 works MI/d 2 70.50 4P33 Total water treated at all SW4 works MI/d 2 7.44 4P.34 Total water treated at all SW5 works MI/d 2 109.18 4P.35 MI/d 2 Total water treated at all SW6 works 0.00 4P.36 MI/d Total water treated at all GW simple disinfection works 2 25.99 MI/d 4P.37 2 0.00 Total water treated at all GW1 works 4P.38 Total water treated at all GW2 works MI/d 2 31.30 4P.39 Total water treated at all GW3 works MI/d 2 16.57 4P.40 Total water treated at all GW4 works MI/d 2 227.89 MI/d 4P.41 Total water treated at all GW5 works 2 73.27 4P.42 Total water treated at all GW6 works MI/d 2 0.00 4P.43 MI/d Total water treated at more than one type of works 0.00 4P44 Total number of SW simple disinfection works nr 0 0 4P.45 Total number of SW1 works nr 0 0 4P.46 Total number of SW2 works nr 0 0 4P.47 Total number of SW3 works nr 0 4P.48 Total number of SW4 works nr 0 3 4P.49 Total number of SW5 works nr 0 4P.50 Total number of SW6 works nr 0 0 4P.51 Total number of GW simple disinfection works 0 12 4P.52 0 Total number of GW1 works nr 0 4P.53 9 Total number of GW2 works 0 4P.54 Total number of GW3 works nr 0 4P.55 Total number of GW4 works nr 0 42 4P.56 Total number of GW5 works nr 0 12 4P57 0 Total number of GW6 works nr 0 4P.58 Number of treatment works requiring remedial action because of raw water deterioration nr 0 4P 59 000 3 2417.992 Zonal population receiving water treated with orthophosphate 4P.60 2 19 76 m.hd Average pumping head – water treatment



4P.108

4P.109

4P.110

Proportion of Total DI band 6

Proportion of Total DI band 7

Proportion of Total DI band 8



4P - Non-financial data for WR, WT and WD - Wholesale water Southern Water For the 12 months ended 31 March 2019 Line Line description Units DPs Current year С Water distribution 4P61 Total length of potable mains as at 31 March 13929.5 km 4P.62 Total length of potable mains relined km 0.0 1 Total length of potable mains renewed 4P63 km 11.1 4P.64 Total length of new potable mains 25.2 1 km 4P 65 Total length of potable water mains (<=320mm) km 1 12481.3 4P.66 Total length of potable water mains >320mm - <=450mm 534.9 km 1 4P67 Total length of potable water mains >450mm - <=610mm km 529.8 4P.68 Total length of potable water mains > 610mm 140.4 km 4P69 Capacity of booster pumping stations kW n 35304 4P.70 Capacity of service reservoirs МІ 0 1042 4P71 Capacity of water towers MI n 4P.72 Distribution input MI/d 558.75 4P.73 Water delivered (non-potable) MI/d 2 4.19 4P.74 Water delivered (potable) MI/d 2 470.07 4P.75 Water delivered (billed measured residential) MI/d 2 283.95 4P.76 Water delivered (billed measured business) MI/d 2 116.10 4P.77 Total leakage MI/d 2 101.83 4P.78 Distribution losses 2 85.58 MI/d 4P.79 10.36 Water taken unbilled MI/d 2 Number of lead communication pipes 4P.80 0 139690 4P.81 129309 Number of galvanised iron communication pipes 0 nr 4P.82 Number of other communication pipes nr 0 641233 4P.83 207 0 Number of booster pumping stations nr 4P84 Total number of service reservoirs nr 0 205 4P.85 Number of water towers nr 0 4P.86 Total length of potable mains laid or structurally refurbished pre-1880 km 1785.2 4P.87 Total length of potable mains laid or structurally refurbished between 1881 and 1900 km 737.9 4P88 Total length of potable mains laid or structurally refurbished between 1901 and 1920 km 1 1450.8 4P.89 Total length of potable mains laid or structurally refurbished between 1921 and 1940 km 1416.2 4P90 Total length of potable mains laid or structurally refurbished between 1941 and 1960 km 888.1 4P.91 Total length of potable mains laid or structurally refurbished between 1961 and 1980 3404.5 4P.92 Total length of potable mains laid or structurally refurbished between 1981 and 2000 km 1 2949.2 4P.93 Total length of potable mains laid or structurally refurbished post 2001 km 1297.5 4P.94 2 54.63 Average pumping head – treated water distribution m.hd Band Disclosure (nr) D 4P.95 WTWs in size band 1 Nr 0 11 4P.96 WTWs in size band 2 Nı 0 14 4P.97 WTWs in size band 3 Nr 0 26 4P.98 WTWs in size band 4 Nr 0 22 4P.99 WTWs in size band 5 Nr 0 13 4P.100 Nr 0 2 WTWs in size band 6 4P.101 Nr 0 3 WTWs in size band 7 4P.102 Nr WTWs in size band 8 0 Band Disclosure (%) F 1.0% 4P.103 Proportion of Total DI band 1 % 4P.104 Proportion of Total DI band 2 % 1 3.9% 4P.105 Proportion of Total DI band 3 % 11.2% 1 4P.106 % Proportion of Total DI band 4 1 23 2% 4P 107 Proportion of Total DI band 5 % 26.9%

%

%

%

1

10 1%

23.6%

0.0%