

SCOTTISH WATER

DELIVERY PLAN 2015-21 (update 2016)

SECTION K: INVESTMENT PLAN
Table K1: Summary - Investment (2012/13 prices)

Line Ref.	Description	Units	Field Type	Forecast Total		Forecast Year		Forecast Year		Forecast Year		Forecast Year		Forecast Year		Forecast Total		Forecast Year		Forecast Year		Forecast Year		Forecast Total	
				Pre 2015	CG	2015-16	CG	2016-17	CG	2017-18	CG	2018-19	CG	2019-20	CG	2020-21	CG	2015-21	CG	2021-22	CG	2022-23	CG	2023-24	CG
Capital Maintenance																									
K1.1	Water Service Infrastructure	£m	I	0.000		77.973		76.130		77.138		72.635		73.605		168.667		546.148							
K1.2	Water Service Non-Infrastructure	£m	I	0.000		42.942		66.070		64.298		66.181		71.848		73.683		385.023							
K1.3	Wastewater Service Infrastructure	£m	I	0.000		37.436		40.836		38.581		34.060		33.943		32.383		217.239							
K1.4	Wastewater Service Non-Infrastructure	£m	I	0.000		61.494		67.522		71.427		82.228		86.920		93.247		462.838							
K1.5	Management and General	£m	I	0.000		32.388		26.620		26.953		24.038		25.742		22.876		158.617							
K1.6	Total Capital Maintenance	£m	C	0.000		252.233		277.177		278.398		279.142		292.058		390.857		1769.865							
Supporting Economic Growth																									
K1.7	Contributions made to connect new households and businesses - water	£m	I	0.000		4.424		4.452		4.844		0.000		0.000		0.000		13.720							
K1.8	Contributions made to connect new households and businesses - waste water	£m	I	0.000		11.376		11.448		12.456		0.000		0.000		0.000		35.280							
K1.9	New waste water capacity for 58,000 people	£m	I	0.000		8.323		9.990		13.128		0.000		0.000		0.000		31.441							
K1.10	Developer constructed assets (Part 2&3) adopted	£m	I	0.000		0.087		0.143		0.299		0.296		0.294		0.291		1.410							
K1.11	First time non domestic meters installed	£m	I	0.000		1.502		1.514		1.514		1.514		1.518		1.502		9.065							
K1.12	Statutory requirements to relocate services for transport infrastructure projects	£m	I	0.000		22.768		12.609		6.519		0.865		0.000		0.000		42.762							
K1.13	Strategic Water Network Capacity (Infrastructure Charge)	£m	I	0.000		1.455		1.881		2.228		2.538		2.910		3.213		14.224							
K1.14	Strategic Wastewater Network Capacity (Infrastructure Charge)	£m	I	0.000		3.815		1.881		2.228		2.538		2.910		3.213		16.584							
K1.15	Total Growth	£m	C	0.000		53.749		43.919		43.216		7.752		7.632		8.218		164.486							
Q&SIV Enhancements - Drinking Water Quality, Reliability and Availability																									
K1.16	Water treatment works made compliant	£m	I	3.894		16.835		28.261		28.514		20.077		5.625		0.455		99.768		0.000		0.000		0.000	
K1.17	Zones made compliant with iron and manganese standards	£m	I	0.498		5.981		14.547		15.441		15.073		6.394		0.763		58.200		0.014		0.000		0.000	
K1.18	Catchments improved	£m	I	0.184		0.375		1.189		7.162		4.150		18.824		14.494		46.193		4.493		0.096		0.000	
K1.19	Enhancements to networks and treated water storage to improve reliability of supply	£m	I	2.708		2.349		3.074		3.075		2.294		2.294		2.051		15.514		0.000		0.000		0.000	
K1.20	Distribution mains cleaned	£m	I	0.000		1.567		2.274		6.602		16.615		6.826		0.273		34.157		0.003		0.000		0.000	
K1.21	Enhancements to improve resilience of water supply	£m	I	0.539		1.913		16.607		6.686		7.777		8.395		8.125		49.502		0.000		0.000		0.000	
K1.22	Improved drought resilience (SOSI)	£m	I	0.047		0.109		0.438		2.932		3.241		10.317		4.607		21.545		0.509		0.000		0.000	
K1.23	Improvements required to meet SEMD requirements	£m	I	0.181		1.041		0.924		1.876		0.924		0.655		0.000		7.213		0.000		0.000		0.000	
K1.24	Improvements to dams to meet the obligations of the Reservoirs Act	£m	I	0.000		0.146		2.245		1.052		0.091		0.000		0.000		3.534		0.000		0.000		0.000	
K1.25	Studies to prepare for future investment periods	£m	I	7.378		5.193		3.741		2.026		0.306		0.249		0.000		12.455		0.000		0.000		0.000	
K1.26	Lead communication pipes replaced	£m	I	0.000		0.705		0.711		0.710		0.712		0.704		0.704		4.252		0.000		0.000		0.000	
K1.27	Improvements in critical asset risk - reservoirs	£m	I	0.000		1.102		1.828		4.406		3.802		3.492		3.474		18.104		0.000		0.000		0.000	
K1.28	Assessments of levels of pressure for all customers and number of improvements if low levels of service are found	£m	I	0.000		0.000		0.000		0.535		0.012		0.000		0.000		0.547		0.000		0.000		0.000	
K1.29	Improve response times to reduce average duration of short term interruptions to supply	£m	I	0.000		0.000		2.215		1.949		0.167		0.156		0.000		4.485		0.000		0.000		0.000	
K1.30	Water efficiency advice and water saving packs provided (to 2% of customer base)	£m	I	0.000		0.047		0.078		0.164		0.164		0.164		0.164		0.780		0.000		0.000		0.000	
K1.31	Total Drinking Water Quality, Reliability and Availability	£m	C	15.430		37.361		78.131		83.130		77.218		64.496		35.914		376.250		5.019		0.096		0.000	
Q&SIV Enhancements - Environment																									
K1.32	Improvements delivered to meet UWWTD: works	£m	I	3.279		0.712		0.249		7.539		23.864		68.995		57.693		159.051		0.000		0.000		0.000	
K1.33	Improvements delivered to meet UWWTD: networks	£m	I	6.977		0.882		0.537		7.992		13.130		5.525		5.813		33.879		5.513		0.000		0.000	
K1.34	Improvements required to meet the WFD	£m	I	0.035		0.008		0.021		0.338		0.479		2.463		0.819		4.129		0.000		0.000		0.000	
K1.35	Improvements required to meet the rBWD	£m	I	0.000		0.001		0.004		0.004		0.115		0.008		0.217		0.345		0.000		0.000		0.000	
K1.36	Catchments improved to meet the requirements of the FRMA	£m	I	0.052		4.607		2.868		3.830		2.670		0.000		0.000		13.975		0.000		0.000		0.000	
K1.37	Environmental studies to prepare for future investment periods	£m	I	0.140		2.026		3.182		2.948		2.781		1.849		0.762		13.548		0.000		0.000		0.000	
K1.38	Sludge Management sites investigated and / or improved	£m	I	1.045		0.352		0.368		0.589		3.248		1.546		0.084		6.187		0.000		0.000		0.000	
K1.39	National strategy on PSD	£m	I	0.045		0.215		0.430		0.859		0.967		0.859		0.107		3.437		0.000		0.000		0.000	
K1.40	Habitats Directive	£m	I	0.028		0.143		0.184		0.000		0.000		0.000		0.000		0.327		0.000		0.000		0.000	
K1.41	Improvements required to meet the requirements of CAS	£m	I	0.000		0.443		0.369		0.119		0.000		0.000		0.000		0.930		0.000		0.000		0.000	
K1.42	Improvements required by Scot. Gov't to protect the water environment	£m	I	0.018		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000	
K1.43	Improvements required by SEPA and LAs to reduce odour nuisance	£m	I	0.216		0.131		0.530		1.570		0.171		0.000		0.000		2.401		0.000		0.000		0.000	
K1.44	Internal flooding improvements	£m	I	9.009		12.311		15.498		18.472		13.498		6.414		8.166		74.356		0.273		0.000		0.000	
K1.45	External flooding investigations and improvements	£m	I	0.769		3.400		3.474		2.357		4.698		3.293		1.482		18.704		0.000		0.000		0.000	
K1.46	% of customers covered by flood resilience assessments	£m	I	0.078		1.957		1.973		1.962		0.000		0.000		0.000		5.893		0.000		0.000		0.000	
K1.47	Surface water management investigations	£m	I	0.000		0.593		0.540		0.539		0.000		0.000		0.000		1.672		0.000		0.000		0.000	
K1.48	Total Environmental	£m	C	21.689		27.781		30.227		49.331		65.620		90.951		74.926		338.835		5.786		0.000		0.000	
Q&SIV Enhancements - Climate Change and Innovation, Customer Experience & Energy																									
K1.49	Improved contact management and proactive communication	£m	I	0.000		0.000		2.716		4.041		0.000		0.000		0.000		6.757		0.000		0.000		0.000	
K1.50	Wholesale meter accuracy improvements	£m	I	0.000		2.266		2.298		2.330		2.363		2.394		2.427		14.078		0.000		0.000		0.000	
K1.51	Improvements in renewable power generation	£m	I	1.181		1.966		2.727		3.119		0.918		1.752		0.368		10.850		0.000		0.000		0.000	
K1.52	Improvements in energy efficiency	£m	I	0.000		2.049		1.790		1.259		0.000		0.000		0.000		6.479		0.000		0.000		0.000	
K1.53	Vulnerability assessments and monitoring improvements to support Climate Change mitigation and reduction	£m	I	0.000		0.660		0.150		1.240															

K1.77	Improvements required to meet the WFD	£m	I							1,001	8,215	3,477	12,692	0,000	0,000	0,000	0,000
K1.78	Improvements required to meet the rBWD	£m	I							0,000	0,382	3,516	3,898	4,128	0,549	0,000	4,677
K1.79	Sludge Management sites investigated and / or improved	£m	I							0,173	0,768	2,731	3,672	0,306	0,000	0,000	0,306
K1.80	Improvements required to meet the requirements of CAS	£m	I							0,000	0,318	1,499	1,817	3,174	1,975	0,000	5,148
K1.81	Improvements required by SEPA and LAs to reduce odour nuisance	£m	I							0,015	0,081	0,291	0,388	0,000	0,000	0,000	0,000
K1.82	Internal flooding improvements	£m	I							9,851	11,077	12,229	33,157	1,246	0,000	0,000	1,246
K1.83	External flooding investigations and improvements	£m	I							3,292	6,506	15,235	25,033	7,281	1,454	0,000	8,735
K1.84	Total IR18 Enhancements - Environment	£m	C							14,332	27,449	42,547	84,328	28,833	30,947	16,248	76,029

IR18Climate Change																	
K1.85	Vulnerability assessments and monitoring improvements to support Climate Change mitigation and reduction	£m	I							0,101	0,140	1,183	1,425	0,312	0,000	0,000	0,312
K1.86	Total IR18 Enhancements Climate Change	£m	C							0,101	0,140	1,183	1,425	0,312	0,000	0,000	0,312

Completion Programme																	
K1.87	OMG 180 Programme	£m	I		105,661	78,770	40,547	22,192	10,214	2,083	259,466						
K1.88	Non OMG180 Programme	£m	I		10,950	17,306	9,745	9,005	3,440	0,027	50,473						
K1.89	PFI	£m	I		2,103	1,526	0,269	0,000	0,000	0,000	3,897						
K1.90	Total Completion Programme	£m	C		118,714	97,602	50,561	31,197	13,654	2,109	313,837						

Grants and Capital Contributions																	
K1.91	Grants for infrastructure assets	£m	I		0,000	0,000	0,000	0,000	0,000	0,000	0,000						
K1.92	Grants for non-infrastructure assets	£m	I		0,000	0,000	0,000	0,000	0,000	0,000	0,000						
K1.93	Contributions to infrastructure assets	£m	I		20,476	10,299	4,221	0,865	0,059	0,059	35,980						
K1.94	Contributions to non-infrastructure assets	£m	I		0,000	0,000	0,000	0,000	0,000	0,000	0,000						
K1.95	Infrastructure charge contributions for infrastructure assets	£m	I		5,270	3,762	4,456	5,076	5,819	6,425	30,808						
K1.96	Total capital contributions	£m	C		25,746	14,061	8,677	5,942	5,878	6,484	66,788						

Expenditure Totals																	
K1.97	Capital Maintenance Expenditure	£m	C	0,000	252,233	277,177	278,398	279,142	292,058	390,857	1769,865	0,000	0,000	0,000	0,000	0,000	
K1.98	Growth Expenditure	£m	C	0,000	53,749	43,919	43,216	7,752	7,632	8,218	164,486	0,000	0,000	0,000	0,000	0,000	
K1.99	Q&SIV Enhancement Expenditure	£m	C	38,299	73,076	119,341	145,902	148,982	160,756	114,766	762,824	10,805	0,096	0,000	0,000	10,901	
K1.100	IR18 Growth Expenditure	£m	C	0,000	0,000	0,000	0,000	31,268	44,781	44,990	121,039	4,664	1,898	0,000	0,000	6,562	
K1.101	IR18 Enhancement Expenditure	£m	C	0,000	0,000	0,000	0,000	26,341	37,760	78,483	142,584	128,928	95,752	34,804	259,483		
K1.102	Completion Programme	£m	C	0,000	118,714	97,602	50,561	31,197	13,654	2,109	313,837	0,000	0,000	0,000	0,000	0,000	
K1.103	Gross Capital Investment	£m	C	38,299	497,772	538,039	518,076	524,682	556,641	639,425	3274,635	144,396	97,746	34,804	276,946		
K1.104	Total capital contributions	£m	I	0,000	25,746	14,061	8,677	5,942	5,878	6,484	66,788	0,000	0,000	0,000	0,000	0,000	
K1.105	Net Capital Investment	£m	C	38,299	472,025	523,978	509,399	518,740	550,762	632,941	3207,847	144,396	97,746	34,804	276,946		
K1.106	Total asset additions	£m	C	38,299	245,539	260,862	189,118	245,540	264,582	248,568	1504,770	144,396	97,746	34,804	276,946		

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SCOTTISH WATER

DELIVERY PLAN 2015-21 (update 2016)

SECTION K: INVESTMENT PLAN
Table K2: Summary - Outcomes and Outputs

Line Ref.	Description	Sub Progra	Units	Field Type
Q&SIV Customers, Economy & Communities (SR15 and Planned Completion)				
K2.1	Number of reasonable cost contributions made to connect new households and businesses - water	OMG 35	Nr	I
K2.2	Number of RCC made to connect new households and businesses - waste water	OMG 36	Nr	I
K2.3	Delivery of new waste water capacity for 58,000 people	OMG 37	Nr	I
K2.5	Number of first time non domestic meters installed	OMG 39	Nr	I
K2.8	Number of wholesale meters	OMG 42	Nr	I
K2.9	Renewable power generation	OMG 43	Nr	I
K2.10	Reduction in energy usage	OMG 44	Nr	I
K2.11	Number of vulnerability assessments and monitoring improvements to support Climate Change mitigation and reduction	OMG 45	Nr	I
K2.12	Number of Research & Innovation projects completed	OMG 46	Nr	I

Q&SIV Drinking Water Quality, Reliability and Availability (SR15 and Planned Completion)				
K2.13	Number of water treatment works made compliant with water quality standards	OMG 01	Nr	I
K2.14	Number of water supply zones made compliant with iron and manganese standards	OMG 02	Nr	I
K2.15	Drinking Water Quality Planned Completion	OMG 03	Nr	I
K2.16	Number of raw water catchments where reliability is improved	OMG 04	Nr	I
K2.17	Number of enhancements to networks and treated water storage to improve reliability of supply	OMG 05	Nr	I
K2.18	Length of distribution mains refurbished	OMG 06	Nr	I
K2.19	Water supply resilience strategy and the number of improvements made.	OMG 07	Nr	I
K2.20	Number of zones to improve security of supply (SOSI)	OMG 08	Nr	I
K2.21	Number of improvements required to meet SEMD requirements	OMG 10	Nr	I
K2.22	Number of improvements to dams to meet the obligations of the FRMA	OMG 11	Nr	I
K2.23	Number of lead communication pipes replaced	OMG 12	Nr	I
K2.24	Number of improvements in the infrastructure of critical – reservoirs	OMG 13	Nr	I
K2.25	Number of properties where low pressure issues are addressed'	OMG 14	Nr	I
K2.26	Average duration of short term interruptions in supply	OMG 15	Nr	I
K2.27	Number of water efficiency advice and water saving packs provided (to 2% of customer base)	OMG 16	Nr	I
K2.28	Number of water quality studies to prepare for future investment periods	OMG 47	Nr	I
K2.29	Strategic Mains Diversions	OMG 49	Nr	I

Q&SIV Environmental Quality and Customer Service Improvements (SR15 and Planned Completion)				
K2.30	Number of improvements delivered to meet UWWTD: above ground works	OMG 17	Nr	I
K2.31	Number of improvements delivered to meet UWWTD: below ground networks	OMG 18	Nr	I
K2.32	Number of improvements delivered to meet UWWTD: Glasgow scheme	OMG 19	Nr	I
K2.33	Number of improvements to meet the WFD	OMG 20	Nr	I
K2.34	Number of improvements to meet the rBWD	OMG 21	Nr	I
K2.35	Number of catchments improved to meet the Flood Risk Management Act (FRMA)	OMG 22	Nr	I
K2.36	Number of studies to prepare for future investment periods	OMG 23	Nr	I
K2.37	Number of Sludge Management sites investigated and / or improved	OMG 24	Nr	I
K2.38	Develop a national strategy on the Priority Substances Directive	OMG 25	Nr	I
K2.39	Number of improvements to meet the Habitats Directive	OMG 26	Nr	I
K2.40	Number of improvements required under the Compliance Assessment Scheme	OMG 27	Nr	I
K2.41	Number of improvements required by Scot. Gov't to protect the water environment	OMG 28	Nr	I
K2.42	Number of improvements required by SEPA and LAs to reduce odour nuisance	OMG 29	Nr	I
K2.43	Number of properties removed from the internal flooding register	OMG 30	Nr	I
K2.44	Number of internal flooding improvements - completion programme as above	OMG 31	Nr	I
K2.45	Number of external flooding investigations and improvements as above	OMG 32	Nr	I
K2.46	% of customers covered by flood resilience assessments	OMG 33	Nr	I
K2.47	Number of surface water management investigations	OMG 34	Nr	I
K2.48	Environmental Planned Completion	OMG 48	Nr	I

SR15 Programme										
2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	
0	0	0	0	0	56500	56500	56500	56500	56500	56500
0	0	0	0	0	56500	56500	56500	56500	56500	56500
0	0	0	0	0	58000	58000	58000	58000	58000	58000
0	0	0	0	0	18000	18000	18000	18000	18000	18000
7700	18200	31700	47200	61700	75500	75500	75500	75500	75500	75500
0.9	1.5	2.6	2.6	2.6	6.5	6.5	6.5	6.5	6.5	6.5
0.0	5.3	5.3	6.8	9.0	11.0	11.0	11.0	11.0	11.0	11.0
0	4	55	57	94	109	122	122	122	122	122
0	0	0	1	1	5	5	5	5	5	5

0	1	4	12	18	27	28	28	28	28	28
0	0	0	35	63	78	88	88	88	88	88
2	2	6	14	19	23	23	23	23	23	23
0	1	4	8	16	40	47	47	47	47	47
0	9	9	10	23	81	82	82	82	82	82
0	0	93	364	2142	5394	5928	5928	5928	5928	5928
1	3	6	9	12	18	18	18	18	18	18
1	1	1	4	6	8	11	11	11	11	11
0	0	79	109	260	633	633	633	633	633	633
0	8	9	14	28	45	45	45	45	45	45
0	0	0	0	0	6500	6500	6500	6500	6500	6500
0	0	9	9	9	56	56	56	56	56	56
0	0	0	1	1	1	1	1	1	1	1
0	12	25	38	51	51	51	51	51	51	51
0	0	6500	24500	42500	49000	49000	49000	49000	49000	49000
0	45	127	229	290	326	341	341	341	341	341
0	2	4	5	5	5	5	5	5	5	5

5	7	7	18	19	22	22	22	22	22	22
3	7	17	22	34	45	62	62	62	62	62
21	26	42	61	69	94	94	94	94	94	94
1	1	10	11	12	21	21	21	21	21	21
0	0	0	0	0	7	7	7	7	7	7
0	0	22	62	123	216	218	218	218	218	218
0	0	1	37	63	131	131	131	131	131	131
4	8	8	8	8	8	10	10	10	10	10
0	0	0	0	0	1	1	1	1	1	1
0	0	1	1	1	1	1	1	1	1	1
0	0	0	8	20	20	20	20	20	20	20
0	0	0	0	0	0	0	0	0	0	0
2	2	3	5	5	5	5	5	5	5	5
4	26	39	55	84	104	104	104	104	104	104
0	0	0	0	0	0	0	0	0	0	0
11	72	84	107	147	185	185	185	185	185	185
0	0	75547	75547	75547	75547	75547	75547	75547	75547	75547
0	1	1	1	1	1	1	1	1	1	1
1	7	9	12	13	16	16	16	16	16	16

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