SUPPLEMENTARY INFORMATION - Cost Base

Table J1: Water infrastructure standard costs

	Description	Ofwat Reference BP PR 04	Units & format	Field Type	a Grassland	EJG	b Rural/suburban highway	EJG	c Urban Highway	EJG
	Mains laying									
J1.1	Nominal bore 100mm	C2 C1 L1	£/m (1dp)	I	45.3	B2	91.7	B2	97.4	B2
J1.2	Nominal bore 150mm	C2 C1 L2	£/m (1dp)	I	53.2	B2	101.4	B2	109.5	B2
J1.3	Nominal bore 200mm	C2 C1 L3	£/m (1dp)	I	61.2	B2	111.1	B2	121.5	B2
J1.4	Nominal bore 300mm	C2 C1 L4	£/m (1dp)	I	77.1	B2	130.4	B2	145.6	B2
J1.5	Nominal bore 450mm	C2 C1 L5	£/m (1dp)	I	152.7	B2	257.7	B2	314.0	B2
J1.6	Nominal bore 600mm	C2 C1 L6	£/m (1dp)	I	217.0	B2	336.2	B2	388.6	B2
	Mains laying by directional drilling									
J1.6a	Nominal bore 100mm	C2 C1 L7	£/m (1dp)	I	41.6	B2	44.7	B2	45.4	B2
J1.6b	Nominal bore 150mm	C2 C1 L8	£/m (1dp)	I	58.7	B2	62.0	B2	63.9	B2
J1.6c	Nominal bore 200mm	C2 C1 L9	£/m (1dp)	I	68.5	B2	70.7	B2	72.4	B2

					a Cement Mortar	EJG	b Surface applied internal coating	EJG	c Sliplining	EJG	d Pipe insertion	EJG	e Pipe bursting	EJG
	Mains Rehabilitation													
J1.7	Nominal bore 100mm	C2 C1 L10	£/m (1dp)	I			41.4	B2	50.6	B2	0.0	N	56.7	B2
J1.8	Nominal bore 150mm	C2 C1 L11	£/m (1dp)	I			46.0	B2	55.4	B2	0.0	N	68.9	B2
J1.9	Nominal bore 200mm	C2 C1 L12	£/m (1dp)	I			50.5	B2	60.1	B2	0.0	N	81.1	B2
J1.10	Nominal bore 300mm	C2 C1 L13	£/m (1dp)	I			59.7	B2			0.0	N		
J1.11	Nominal bore 450mm	C2 C1 L14	£/m (1dp)	I							0.0	N		
J1.12	Nominal bore 600mm	C2 C1 L15	£/m (1dp)	I							0.0	N		

					a Long Side	EJG	b Short side	EJG
	Communication pipes							
J1.13	New communication pipes	C2 C1 L16	£/unit (1dp)	I	272.2	B2	175.9	B2
J1.14	Renew communication pipes	C2 C1 L17	£/unit (1dp)	I	384.2	B2	304.7	B2

					a Internally	EJG	b Externally (excluding boundary box)	EJG	c Externally (including boundary box)	EJG
	Meters									
J1.15	New meter installation	C2 C1 L18	£/unit (1dp)	I	360.6	B3	174.5	B3	351.9	B3
J1.16	Renewal of meters	C2 C1 L19	£/unit (1dp)	I	396.6	B3	192.0	B3	376.7	B3

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SCOTTISH WATER

WATER INDUSTRY COMMISSIONER FOR SCOTLAND

ANNUAL RETURN INFORMATION REQUIREMENTS

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Table J1: Water infrastructure standard costs

	Description	Ofwat Reference BP PR 04	Units & format	Field Type	10 a Grassland	Comment Necessary Y/N	Comment	20 b Rural/suburban highway	Comment Necessary Y/N	Comment	30 c Urban Highway	Comment Necessary Y/N	Comment
	Mains laying												
J1.1	Nomimal bore 100mm	C2 C1 L1	£/m (1dp)	I	N			N			N		
J1.2	Nomimal bore 150mm	C2 C1 L2	£/m (1dp)	I	N			N			N		
J1.3	Nomimal bore 200mm	C2 C1 L3	£/m (1dp)	I	N			N			N		
J1.4	Nomimal bore 300mm	C2 C1 L4	£/m (1dp)	I	N			N			N		
J1.5	Nomimal bore 450mm	C2 C1 L5	£/m (1dp)	I	N			N			N		
J1.6	Nomimal bore 600mm	C2 C1 L6	£/m (1dp)	I	N			N			N		
	Mains laying by directional drilling												
J1.6a	Nominal bore 100mm	C2 C1 L7	£/m (1dp)	I	N			N			N		
J1.6b	Nominal bore 150mm	C2 C1 L8	£/m (1dp)	I	N			N			N		
J1.6c	Nominal bore 200mm	C2 C1 L9	£/m (1dp)	I	N			N			N		

	Description	Ofwat Reference BP PR 04	Units & format	Field Type	10 a Cement Mortar	Comment Necessary Y/N	Comment	20 b Surface applied internal coating	Comment Necessary Y/N	Comment	30 c Sliplining	Comment Necessary Y/N	Comment	40 d Pipe insertion	Comment Necessary Y/N	Comment	50 e Pipe bursting	Comment Necessary Y/N	Comment
	Mains Rehabilitation																		
J1.7	Nomimal bore 100mm	C2 C1 L10	£/m (1dp)	I				N			N			N		SW do not undertake this activity	N		
J1.8	Nomimal bore 150mm	C2 C1 L11	£/m (1dp)	I				N			N			N		SW do not undertake this activity	N		
J1.9	Nomimal bore 200mm	C2 C1 L12	£/m (1dp)	I				N			N			N		SW do not undertake this activity	N		
J1.10	Nomimal bore 300mm	C2 C1 L13	£/m (1dp)	I				N						N		SW do not undertake this activity			
J1.11	Nomimal bore 450mm	C2 C1 L14	£/m (1dp)	I										N		SW do not undertake this activity			
J1.12	Nomimal bore 600mm	C2 C1 L15	£/m (1dp)	I										N		SW do not undertake this activity			

	Description	Ofwat Reference BP PR 04	Units & format	Field Type	10 a Long Side	Comment Necessary Y/N	Comment	20 b Short side	Comment Necessary Y/N	Comment
	Communication pipes									
J1.13	New communication pipes	C2 C1 L16	£/unit (1dp)	I	N			N		
J1.14	Renew communication pipes	C2 C1 L17	£/unit (1dp)	I	N			N		

	Description	Ofwat Reference BP PR 04	Units & format	Field Type	10 a Internally	Comment Necessary Y/N	Comment	20 b Externally (excluding boundary box)	Comment Necessary Y/N	Comment	30 c Externally (including boundary box)	Comment Necessary Y/N	Comment
	Meters												
J1.15	New meter installation	C2 C1 L18	£/unit (1dp)	I	N			N			N		
J1.16	Renewal of meters	C2 C1 L19	£/unit (1dp)	I	N			N			N		

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SUPPLEMENTARY INFORMATION - Cost Base

Table J2: Water mains - projected expenditure

	Description	Ofwat Reference BP PR04	Units & format	Field Type	Estimated proportion of expenditure during the period 2002-03 - 2005-06
	Mains laying or replacement				
J2.1	Grassland	C2 C2 L1	% (1dp)	I	21.0
J2.2	Rural\suburban highway	C2 C2 L2	% (1dp)	I	26.0
J2.3	Urban highway	C2 C2 L3	% (1dp)	I	19.0
	Mains laying or replacement by directional drilling				
J2.3a	Grassland	C2 C2 L4	% (1dp)	I	0.0
J2.3b	Rural\suburban highway	C2 C2 L5	% (1dp)	I	0.0
J2.3c	Urban highway	C2 C2 L6	% (1dp)	I	0.0
	Mains rehabilitation				
J2.4	Not in use				
J2.5	Surface applied internal coating	C2 C2 L7	% (1dp)	I	4.0
J2.6	Sliplining	C2 C2 L8	% (1dp)	I	7.0
J2.7	Pipe insertion	C2 C2 L8	% (1dp)	I	0.0
J2.8	Pipe bursting	C2 C2 L10	% (1dp)	I	23.0
J2.9	Not in use				

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SUPPLEMENTARY INFORMATION - Cost Base

Table J2: Water mains - projected expenditure

Issues with data	Problem ?	Solution
The sum of lines 1 to 9 should equal 100%	N	No solution required

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SUPPLEMENTARY INFORMATION - Cost Base

Table J3: Sewerage infrastructure standard costs

	Description	Ofwat Reference BP PR04	Units & format	Field Type	a Grassland	EJG	b Rural/suburban highway	EJG	c Urban Highway	EJG
	Sewer laying									
J3.1	Diameter 150mm	C2 C5 L1	£/m (1dp)	I	119.6	B2	196.8	B2	218.9	B2
J3.2	Diameter 225mm	C2 C5 L2	£/m (1dp)	I	145.4	B2	235.7	B2	259.3	B2
J3.3	Diameter 300mm	C2 C5 L3	£/m (1dp)	I	171.3	B2	274.6	B2	299.7	B2
J3.4	Diameter 450mm	C2 C5 L4	£/m (1dp)	I	222.9	B2	352.4	B2	380.6	B2
J3.5	Diameter 600mm	C2 C5 L5	£/m (1dp)	I	274.5	B2	430.2	B2	461.5	B2
J3.6	Diameter 900mm	C2 C5 L6	£/m (1dp)	I	377.8	B2	585.8	B2	623.2	B2
	Sewer laying by pipe jacking or microtunnelling									
J3.6a	Sewer laying by microtunnelling - Diameter 450mm	C2 C5 L7	£/m (1dp)	I			0.0	N	0.0	N
J3.6b	Sewer laying by pipe jacking or microtunnelling - Diameter 900mm	C2 C5 L8	£/m (1dp)	I			0.0	N	0.0	N

	Description	Ofwat Reference BP PR04	Units & format	Field Type	a Polyethylene	EJG	b Insituform	EJG	c Pipe bursting	EJG	d Man entry	EJG
	Sewer Rehabilitation											
J3.7	Diameter 150mm	C2 C5 L9	£/m (1dp)	I			105.5	B2				
J3.8	Diameter 225mm	C2 C5 L10	£/m (1dp)	I			115.0	B2	177.4	B2		
J3.9	Diameter 300mm	C2 C5 L11	£/m (1dp)	I			130.5	B2	208.0	B2		
J3.10	Diameter 450mm	C2 C5 L12	£/m (1dp)	I			183.0	B2	280.6	B2		
J3.11	Diameter 600mm	C2 C5 L13	£/m (1dp)	I			268.7	B2				
J3.12	Diameter 900mm	C2 C5 L14	£/m (1dp)	I							405	B2

	Description	Ofwat Reference BP PR04	Units & format	Field Type	a Standard cost estimate	EJG
	Other sewerage infrastructure activity					
J3.13	Construction of a self-contained pumping unit to isolate a domestic property	C2 C5 L15	£/unit (1dp)	I	16914.2	B3

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SUPPLEMENTARY INFORMATION - Cost Base

Table J3: Sewerage infrastructure standard costs

	Description	Ofwat Reference BP PR04	Units & format	Field Type	10 a Grassland		20 b Rural/suburban highway		30 c Urban Highway	
					Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment
Sewer laying										
J3.1	Diameter 150mm	C2 C5 L1	£/m (1dp)	I	N		N		N	
J3.2	Diameter 225mm	C2 C5 L2	£/m (1dp)	I	N		N		N	
J3.3	Diameter 300mm	C2 C5 L3	£/m (1dp)	I	N		N		N	
J3.4	Diameter 450mm	C2 C5 L4	£/m (1dp)	I	N		N		N	
J3.5	Diameter 600mm	C2 C5 L5	£/m (1dp)	I	N		N		N	
J3.6	Diameter 900mm	C2 C5 L6	£/m (1dp)	I	N		N		N	
Sewer laying by pipe jacking or microtunnelling										
J3.6a	Sewer laying by microtunnelling - Diameter 450mm	C2 C5 L7	£/m (1dp)	I			N	SW do not undertake this activity	N	SW do not undertake this activity
J3.6b	Sewer laying by pipe jacking or microtunnelling - Diameter 900mm	C2 C5 L8	£/m (1dp)	I			N	SW do not undertake this activity	N	SW do not undertake this activity

	Description	Ofwat Reference BP PR04	Units & format	Field Type	10 a Polyethylene		20 b Insituform		30 c Pipe bursting		40 d Man entry	
					Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment
Sewer Rehabilitation												
J3.7	Diameter 150mm	C2 C5 L9	£/m (1dp)	I			N					
J3.8	Diameter 225mm	C2 C5 L10	£/m (1dp)	I			N		N			
J3.9	Diameter 300mm	C2 C5 L11	£/m (1dp)	I			N		N			
J3.10	Diameter 450mm	C2 C5 L12	£/m (1dp)	I			N		N			
J3.11	Diameter 600mm	C2 C5 L13	£/m (1dp)	I			N					
J3.12	Diameter 900mm	C2 C5 L14	£/m (1dp)	I							N	

	Description	Ofwat Reference BP PR04	Units & format	Field Type	10 a Standard unit cost	
					Comment Necessary Y/N	Comment
Other sewerage infrastructure activity						
J3.13	Construction of a self-contained pumping unit to isolate a domestic prope	C2 C5 L15	£/unit (1dp)	I	N	

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SUPPLEMENTARY INFORMATION - Cost Base

Table J4: Sewerage infrastructure - projected expenditure

	Description	Ofwat Reference BP PR 04	Units & format	Field Type	Estimated proportion of expenditure during the period 2002-03-2005-06
	Sewer laying or replacement				
J4.1	Grassland	C2 C6 L1	% (1dp)	I	23
J4.2	Rural\suburban highway	C2 C6 L2	% (1dp)	I	37
J4.3	Urban highway	C2 C6 L3	% (1dp)	I	28
	Sewer laying or replacement by pipe jacking or microtunnelling				
J4.3a	Grassland	C2 C6 L4	% (1dp)	I	0
J4.3b	Rural\suburban highway	C2 C6 L5	% (1dp)	I	0
J4.3c	Urban highway	C2 C6 L6	% (1dp)	I	0
	Sewer rehabilitation				
J4.4	Not in use				
J4.5	Insituform	C2 C6 L7	% (1dp)	I	11
J4.6	Pipe bursting	C2 C6 L8	% (1dp)	I	0
J4.7	Man entry systems	C2 C6 L9	% (1dp)	I	1
J4.8	Not in use				
	Other sewerage infrastructure activity				
J4.9	Construction of self-contained pumping units to isolate domestic properties	C2 C6 L10	% (1dp)	I	0

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SCOTTISH WATER

WATER INDUSTRY COMMISSIONER FOR SCOTLAND

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Table J4: Sewerage infrastructure - projected expenditure

Description	Ofwat Reference JR 99	Units & format	Field Type	Forecast proportion of expenditure during the period 2004-05-2007-08

Issues with data	Problem ?	Solution
The sum of lines 1 to 9 should equal 100%	N	No solution required

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SUPPLEMENTARY INFORMATION - Cost Base

Table J5: Water non-infrastructure standard costs

	Description	Ofwat Reference	Units & format	Field Type	Standard Cost Estimates	EJG
	Water treatment works					
J5.1	New treatment works type SW1, output 12Ml/d	PR99 G G5 L1	£/Ml/d (1dp)	I	225539.3	B3
J5.2	New treatment works type SW1, output 5Ml/d	PR99 G G5 L1	£/Ml/d (1dp)	I	414342.8	B3
J5.3	New treatment works type SW2, output 30Ml/d	PR04 BP C2 C3 L1	£/Ml/d (1dp)	I	186420.7	B3
J5.3a	Alterations to water treatment works type SW2, output 30Ml/d	PR04 BP C2 C3 L5	£/Ml/d (1dp)	I	53831.9	B3
J5.4	New filtration system at treatment works, type SW2, output 10Ml/d	-	£/Ml/d (1dp)	I	100539.1	B2
J5.5	Replacement filtration system at an existing water treatment works, type SW2, output 30Ml/d	PR04 BP C2 C3 L2	£/Ml/d (1dp)	I	87210.3	B2
J5.5a	Fitting new plumbosolvency control to existing abstraction borehole treatment works with simple disinfection only, output 8Ml/d	PR04 BP C2 C3 L4	£/Ml/d (1dp)	I	15638.1	B3
J5.5b	Installation of a nitrate removal plant at a borehole treatment works with simple disinfection only, output 10Ml/d	PR04 BP C2 C3 L6	£/Ml/d (1dp)	I	0.0	N
J5.5c	Cryptosporidium protection to an existing borehole treatment works with simple disinfection only, output 2.5Ml/d	PR04 BP C2 C3 L7	£/Ml/d (1dp)	I	374178.9	B2
	Storage					
J5.6	New service reservoir 1Ml	-	£/Ml (1dp)	I	310188.4	B2
J5.7	New service reservoir, capacity 4Ml	PR04 BP C2 C3 L8	£/Ml (1dp)	I	183279.0	B2
J5.8	Refurbishment of service reservoir 6Ml	PR04 BP C2 C3 L10	£/Ml (1dp)	I	29247.6	B2
J5.8a	New service reservior, capacity 15Ml	PR04 BP C2 C3 L9	£/Ml (1dp)	I	111578.7	B2
	Pumping stations					
J5.9	Not in use					
J5.10	Replacement of variable speed Pumps, output 6 - 9 Ml/d	PR04 BP C2 C3 L11	£/Ml/d (1dp)	I	0.0	N
J5.11	Replacement of variable speed pump motors, rated 110kW	PR04 BP C2 C3 L12	£/kW(1dp)	I	0.0	N
J5.12	New fixed speed pumpset, output 10Ml/d	PR04 BP C2 C3 L15	£/Ml/d (1dp)	I	0.0	N
J5.13	Not in use					
J5.13a	Replacement of borehole pumpsets, output 4Ml/d	PR04 BP C2 C3 L13	£/Ml/d (1dp)	I	0.0	N
J5.13b	Replacement of borehole pumpsets, output 10Ml/d	PR04 BP C2 C3 L14	£/Ml/d (1dp)	I	0.0	N
J5.13c	New fixed speed pumpset, output 30Ml/d	PR04 BP C2 C3 L16	£/Ml/d (1dp)	I	0.0	N
J5.13d	Replacement motor control centre for an existing variable speed pumping station, 15kW total installed motor capacity	PR04 BP C2 C3 L17	£/kW(1dp)	I	0.0	N
J5.13e	Replacement motor control centre for an existing variable speed pumping station, 90kW total installed motor capacity	PR04 BP C2 C3 L18	£/kW(1dp)	I	0.0	N
	Management & General					
J5.14	Extension to Office accomodation	PR99 G G5 L15	£/sqm (1dp)	I	1278.6	B3
J5.15	Satellite stations and a transmission station	PR99 G G5 L16	£/outstation (1dp)	I	0.0	N

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Table J5: Water non-infrastructure standard costs

	Description	Ofwat Reference	Units & format	Field Type	10 Standard Cost Estimates: Comment Necessary Y/N	Comment
	Water treatment works					
J5.1	New treatment works type SW1, output 12Ml/d	PR99 G G5 L1	£/Ml/d (1dp)	I	N	
J5.2	New treatment works type SW1, output 5Ml/d	PR99 G G5 L1	£/Ml/d (1dp)	I	N	
J5.3	New treatment works type SW2, output 30Ml/d	PR04 BP C2 C3 L1	£/Ml/d (1dp)	I	N	
J5.3a	Alterations to water treatment works type SW2, output 30Ml/d	PR04 BP C2 C3 L5	£/Ml/d (1dp)	I	N	
J5.4	New filtration system at treatment works, type SW2, output 10Ml/d	-	£/Ml/d (1dp)	I	N	
J5.5	Replacement filtration system at an existing water treatment works, type SW2, output 30Ml/d	PR04 BP C2 C3 L2	£/Ml/d (1dp)	I	N	
J5.5a	Fitting new plumbosolvency control to existing abstraction borehole treatment works with simple disinfection only, output 8Ml/d	PR04 BP C2 C3 L4	£/Ml/d (1dp)	I	N	
J5.5b	Installation of a nitrate removal plant at a borehole treatment works with simple disinfection only, output 10Ml/d	PR04 BP C2 C3 L6	£/Ml/d (1dp)	I	N	SW do not carry out this type of work
J5.5c	Cryptosporidium protection to an existing borehole treatment works with simple disinfection only, output 2.5Ml/d	PR04 BP C2 C3 L7	£/Ml/d (1dp)	I	N	
	Storage					
J5.6	New service reservoir 1Ml	-	£/Ml (1dp)	I	N	
J5.7	New service reservoir, capacity 4Ml	PR04 BP C2 C3 L8	£/Ml (1dp)	I	N	
J5.8	Refurbishment of service reservoir 6Ml	PR04 BP C2 C3 L10	£/Ml (1dp)	I	N	
J5.8a	New service reservior, capacity 15Ml	PR04 BP C2 C3 L9	£/Ml (1dp)	I	N	
	Pumping stations					
J5.9	Not in use					
J5.10	Replacement of variable speed Pumps, output 6 - 9 Ml/d	PR04 BP C2 C3 L11	£/Ml/d (1dp)	I	N	SW have no relevant costs for this line - see commentary
J5.11	Replacement of variable speed pump motors, rated 110kW	PR04 BP C2 C3 L12	£/kW(1dp)	I	N	SW have no relevant costs for this line - see commentary
J5.12	New fixed speed pumpset, output 10Ml/d	PR04 BP C2 C3 L15	£/Ml/d (1dp)	I	N	SW have no relevant costs for this line - see commentary
J5.13	Not in use					
J5.13a	Replacement of borehole pumpsets, output 4Ml/d	PR04 BP C2 C3 L13	£/Ml/d (1dp)	I	N	SW have no relevant costs for this line - see commentary
J5.13b	Replacement of borehole pumpsets, output 10Ml/d	PR04 BP C2 C3 L14	£/Ml/d (1dp)	I	N	SW have no relevant costs for this line - see commentary
J5.13c	New fixed speed pumpset, output 30Ml/d	PR04 BP C2 C3 L16	£/Ml/d (1dp)	I	N	SW have no relevant costs for this line - see commentary
J5.13d	Replacement motor control centre for an existing variable speed pumping station, 15kW total installed motor capacity	PR04 BP C2 C3 L17	£/kW(1dp)	I	N	SW have no relevant costs for this line - see commentary
J5.13e	Replacement motor control centre for an existing variable speed pumping station, 90kW total installed motor capacity	PR04 BP C2 C3 L18	£/kW(1dp)	I	N	SW have no relevant costs for this line - see commentary
	Management & General					
J5.14	Extension to Office accommodation	-	£/sqm (1dp)	I	N	
J5.15	Satellite stations and a transmission station	-	£/outstation (1dp)	I	N	SW have no relevant costs for this line - see commentary

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SUPPLEMENTARY INFORMATION - Cost Base

Table J6: Non-infrastructure standard sewerage costs

	Description	Ofwat Reference	Units & format	Field Type	Standard Cost Estimates	EJG
	Sewage structures					
J6.1	Storage tank to combined sewer overflow, capacity 750m3	PR04 BP C2 C7 L1	£/unit (1dp)	I	394174.2	B3
J6.1a	Large storage tank to combined sewer overflow, capacity 3000m3	PR04 BP C2 C7 L2	£/unit (1dp)	I	865892.4	B3
J6.1b	Combined sewer overflow chamber with powered screen	PR04 BP C2 C7 L3	£/unit (1dp)	I	146280.9	B3
	Sewage pumping stations					
J6.2	Replacement dry well pumps and motors for an existing pumping station, 12kW total capacity	PR04 BP C2 C7 L4	£/kW (1dp)	I	1732.0	B3
J6.3	Replacement dry well pumps and motors for an existing pumping station, 30kW total capacity	PR04 BP C2 C7 L5	£/kW (1dp)	I	871.0	B3
J6.4	Replacement dry well pumps and motors for an existing pumping station, 100kW total capacity	PR04 BP C2 C7 L6	£/kW (1dp)	I	353.0	B3
J6.4a	Replacement submersible pumps for an existing pumping station, 12kW total capacity	PR04 BP C2 C7 L7	£/kW (1dp)	I	0.0	N
J6.4b	Upsize existing dry well in-line pumping station from 12kW to 30 kW capacity	PR04 BP C2 C7 L8	£/kW (1dp)	I	0.0	N
J6.4c	Upsize existing wet well in-line pumping station from 12kW to 30 kW capacity	PR04 BP C2 C7 L9	£/kW (1dp)	I	0.0	N
J6.4d	Replacement motor control centre for an existing fixed speed pumping station, 15kW total installed motor capacity	PR04 BP C2 C7 L10	£/kW (1dp)	I	0.0	N
J6.4e	Replacement motor control centre for an existing fixed speed pumping station, 90kW total installed motor capacity	PR04 BP C2 C7 L11	£/kW (1dp)	I	0.0	N
	Treatment Works					
J6.5	Primary treatment works p.e. 10,000	PR99 G G6 L5	£/kgBOD^5/d (1dp)	I	1623.6	B2
J6.6	Additional secondary treatment p.e. 5,000	PR99 G G6 L6	£/kgBOD^5/d (1dp)	I	3240.2	B2
J6.7	Additional secondary treatment p.e. 60,000	-	£/kgBOD^5/d (1dp)	I	995.5	B2
J6.7a	Installation of denitrification at existing secondary works, p.e. 40,000	PR04 BP C2 C7 L13	£/kgBOD^5/d (1dp)	I	0.0	N
J6.8	New secondary treatment works p.e. 5,000	PR99 G G6 L7	£/kgBOD^5/d (1dp)	I	5084.3	B2
J6.9	New secondary treatment works p.e. 70,000	-	£/kgBOD^5/d (1dp)	I	1653.3	B2
J6.10	Reconstruction of preliminary treatment p.e. 25,000	PR99 G G6 L10	£/kgBOD^5/d (1dp)	I	392.9	B2
J6.11	First time rural sewage treatment p.e. 200	PR04 BP C2 C7 L12	£/kgBOD^5/d (1dp)	I	18341.6	B2
J6.12	Additional nutrient removal at existing secondary works, p.e. 12,000	PR04 BP C2 C7 L14	£/kgBOD^5/d (1dp)	I	309.3	B2
J6.13	Additional nutrient removal at existing secondary works, p.e. 40,000	PR04 BP C2 C7 L15	£/kgBOD^5/d (1dp)	I	132.6	B2
J6.14	Additional ammonia removal at existing secondary works, p.e. 2,000	PR04 BP C2 C7 L16	£/kgBOD^5/d (1dp)	I	1442.3	B2
J6.14a	Additional ammonia removal at existing secondary works, p.e. 40,000	PR04 BP C2 C7 L17	£/kgBOD^5/d (1dp)	I	241.0	B2
J6.15	Additional UV disinfection at existing treatment works, p.e. 5,000	PR04 BP C2 C7 L18	£/m^3/d (1dp)	I	0.0	N
J6.16	Additional UV disinfection at existing treatment works, p.e. 40,000	PR04 BP C2 C7 L19	£/m^3/d (1dp)	I	0.0	N
J6.17	New enhanced sludge treatment facility, throughput 2 ttds per annum	PR04 BP C2 C7 L20	£/ttds/a (1dp)	I	0.0	N
J6.18	Extension to existing conventional sludge treatment facility, additional throughput 1 ttds per annum	PR04 BP C2 C7 L21	£/ttds/a (1dp)	I	0.0	N

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SUPPLEMENTARY INFORMATION - Cost Base

Table J6: Non-infrastructure standard sewerage costs

	Description	Ofwat Reference	Units & format	Field Type	10 Standard Cost Estimates: Comment Necessary Y/N	10 Standard Cost Estimates: Comment
	Sewage structures					
J6.1	Storage tank to combined sewer overflow, capacity 750m3	PR04 BP C2 C7 L1	£/unit (1dp)	I	N	
J6.1a	Large storage tank to combined sewer overflow, capacity 3000m3	PR04 BP C2 C7 L2	£/unit (1dp)	I	N	
J6.1b	Combined sewer overflow chamber with powered screen	PR04 BP C2 C7 L3	£/unit (1dp)	I	N	
	Sewage pumping stations					
J6.2	Replacement dry well pumps and motors for an existing pumping station, 12kW total capacity	PR04 BP C2 C7 L4	£/kW (1dp)	I	N	
J6.3	Replacement dry well pumps and motors for an existing pumping station, 30kW total capacity	PR04 BP C2 C7 L5	£/kW (1dp)	I	N	
J6.4	Replacement dry well pumps and motors for an existing pumping station, 100kW total capacity	PR04 BP C2 C7 L6	£/kW (1dp)	I	N	
J6.4a	Replacement submersible pumps for an existing pumping station, 12kW total capacity	PR04 BP C2 C7 L7	£/kW (1dp)	I	N	SW have no relevant costs for this line
J6.4b	Upsize existing dry well in-line pumping station from 12kW to 30 kW capacity	PR04 BP C2 C7 L8	£/kW (1dp)	I	N	SW have no relevant costs for this line
J6.4c	Upsize existing wet well in-line pumping station from 12kW to 30 kW capacity	PR04 BP C2 C7 L9	£/kW (1dp)	I	N	SW have no relevant costs for this line
J6.4d	Replacement motor control centre for an existing fixed speed pumping station, 15kW total installed motor capacity	PR04 BP C2 C7 L10	£/kW (1dp)	I	N	SW have no relevant costs for this line
J6.4e	Replacement motor control centre for an existing fixed speed pumping station, 90kW total installed motor capacity	PR04 BP C2 C7 L11	£/kW (1dp)	I	N	SW have no relevant costs for this line
	Treatment Works					
J6.5	Primary treatment works p.e. 10,000	PR99 G G6 L5	£/kgBOD^5/d (1dp)	I	N	
J6.6	Additional secondary treatment p.e. 5,000	PR99 G G6 L6	£/kgBOD^5/d (1dp)	I	N	
J6.7	Additional secondary treatment p.e. 60,000	-	£/kgBOD^5/d (1dp)	I	N	
J6.7a	Installation of denitrification at existing secondary works, p.e. 40,000	PR04 BP C2 C7 L13	£/kgBOD^5/d (1dp)	I	N	SW would not carry out this type of work
J6.8	New secondary treatment works p.e. 5,000	PR99 G G6 L7	£/kgBOD^5/d (1dp)	I	N	
J6.9	New secondary treatment works p.e. 70,000	-	£/kgBOD^5/d (1dp)	I	N	
J6.10	Reconstruction of preliminary treatment p.e. 25,000	PR99 G G6 L10	£/kgBOD^5/d (1dp)	I	N	
J6.11	First time rural sewage treatment p.e. 200	PR04 BP C2 C7 L12	£/kgBOD^5/d (1dp)	I	N	
J6.12	Additional nutrient removal at existing secondary works, p.e. 12,000	PR04 BP C2 C7 L14	£/kgBOD^5/d (1dp)	I	N	
J6.13	Additional nutrient removal at existing secondary works, p.e. 40,000	PR04 BP C2 C7 L15	£/kgBOD^5/d (1dp)	I	N	
J6.14	Additional ammonia removal at existing secondary works, p.e. 2,000	PR04 BP C2 C7 L16	£/kgBOD^5/d (1dp)	I	N	
J6.14a	Additional ammonia removal at existing secondary works, p.e. 40,000	PR04 BP C2 C7 L17	£/kgBOD^5/d (1dp)	I	N	
J6.15	Additional UV disinfection at existing treatment works, p.e. 5,000	PR04 BP C2 C7 L18	£/m^3/d (1dp)	I	N	SW have no relevant costs for this line
J6.16	Additional UV disinfection at existing treatment works, p.e. 40,000	PR04 BP C2 C7 L19	£/m^3/d (1dp)	I	N	SW have no relevant costs for this line
J6.17	New enhanced sludge treatment facility, throughput 2 ttds per annum	PR04 BP C2 C7 L20	£/ttds/a (1dp)	I	N	SW have no relevant costs for this line
J6.18	Extension to existing conventional sludge treatment facility, additional throughput 1 ttds per annum	PR04 BP C2 C7 L21	£/ttds/a (1dp)	I	N	SW have no relevant costs for this line

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SUPPLEMENTARY INFORMATION - Cost Base

Table J7: Composition of investment by asset type- water service

	Description	Ofwat Reference PR04 BP	Units & format	Field Type	Estimated proportion of expenditure during the period 2002-03 - 2005-06
J7.1	**Water resources**	C2 C4 L1	% (1dp)	I	2.2
	Water treatment works				
J7.2	New surface water up-to and including 10Ml/day	C2 L4 L2	% (1dp)	I	7.5
J7.3	New surface water greater than 10Ml/d		% (1dp)	I	14.9
J7.4	Upgraded or refurbished surface water up-to and including 10Ml/day		% (1dp)	I	5.7
J7.5	Upgraded or refurbished surface water greater than 10Ml/day		% (1dp)	I	4.4
J7.6	Ground water	C2 L4 L3	% (1dp)	I	3.3
	Treated water storage				
J7.7	New	C2 C4 L4	% (1dp)	I	1.7
J7.8	Refurbished		% (1dp)	I	6.8
J7.9	**Pumping stations**	C2 C4 L5	% (1dp)	I	1.6
	Mains and Customer Ancilliaries				
J7.10	Potable mains	C2 C4 L6	% (1dp)	I	39.6
J7.11	Communication pipes	C2 C4 L7	% (1dp)	I	0.4
J7.12	**Management & general**	C2 C4 L9	% (1dp)	I	10.1
J7.13	**Meters**	C2 C4 L8	% (1dp)	I	1.8

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Table J7: Composition of investment by asset type- water service

Issues with data	Problem ?	Solution
The sum of lines 1 to 13 should equal 100%	N	No solution required

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SUPPLEMENTARY INFORMATION - Cost Base

Table J8: Composition of investment by asset type- sewerage service

	Description	Ofwat Reference PR04 BP	Units & format	Field Type	Estimated proportion of expenditure during the period 2002-03 - 2005-06
J8.1	**Sewers**	C2 C8 L1	% (1dp)	I	27.1
J8.2	**Sewer structures**	C2 C8 L2	% (1dp)	I	11.2
J8.3	**Sewage pumping stations**	C2 C8 L3	% (1dp)	I	2.5
	Sewage treatment works				
J8.4	Preliminary treatment only	C2 C8 L4	% (1dp)	I	1.1
J8.5	New primary treatment up-to and including 10,000 p.e.	C2 C8 L5	% (1dp)	I	0.9
J8.6	New primary treatment greater than 10,000 p.e.		% (1dp)	I	0.0
J8.7	Upgraded or refurbished primary treatment up-to and including 10,000 p.e.		% (1dp)	I	13.7
J8.8	Upgraded or refurbished primary treatment greater than 10,000 p.e.		% (1dp)	I	0.0
J8.9	New secondary treatment up-to and including 10,000 p.e.	C2 C8 L6	% (1dp)	I	4.3
J8.10	New secondary treatment greater than 10,000 p.e.		% (1dp)	I	1.3
J8.11	Upgraded or refurbished secondary treatment up-to and including 10,000 p.e.		% (1dp)	I	21.1
J8.12	Upgraded or refurbished secondary treatment greater than 10,000 p.e.		% (1dp)	I	6.5
J8.13	Tertiary treatment	C2 C8 L7	% (1dp)	I	3.1
J8.14	**Sea outfalls**	C2 C8 L8	% (1dp)	I	1.1
J8.15	**Sludge treatment and disposal**	C2 C8 L9	% (1dp)	I	1.7
J8.16	**Management and general**	C2 C8 L10	% (1dp)	I	4.4

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SUPPLEMENTARY INFORMATION - Cost Base

Table J8: Composition of investment by asset type- sewerage service

Issues with data	Problem ?	Solution
The sum of lines 1 to 16 should equal 100%	N	No solution required

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