WATER INDUSTRY COMMISSIONER

ANNUAL RETURN INFORMATION REQUIREMENTS

FOR SCOTLAND

SUPPLEMENTARY INFORMATION - Cost Base

Table J1: Water infrastructure standard costs

	Ofwat	Units &	Field	а		b	Ш	С	
Description	Reference JR 99	format	Туре	Grassland	EJG	Rural/suburb an highway	EJG	Urban Highway	EJG
Mains laying									
J1.1 Nominal bore 100mm	KD3AL1	£/m (1dp)	I	47.4	B2	88.2	B2	100.8	B2
J1.2 Nominal bore 150mm	KD3AL2	£/m (1dp)	I	56.5	B2	103.3	B2	112.4	B2
J1.3 Nominal bore 200mm	KD3AL3	£/m (1dp)	I	59.9	B2	106.8	B2	123.1	B2
J1.4 Nominal bore 300mm	KD3AL4	£/m (1dp)	I	90.8	B2	134.0	B2	148.9	B2
J1.5 Nominal bore 450mm	KD3AL5	£/m (1dp)	I	145.9	B2	246.2	B2	299.9	B2
J1.6 Nominal bore 600mm	KD3AL6	£/m (1dp)	- 1	207.3	B2	321.1	B2	371.2	B2
					_				
				а		b		С	
						Epoxy Resin		Sliplining	

					Cement Mortar	EJG	zpoxy noom	EJG	Gpg	EJG	insertion	EJG	bursting	EJG	ouno.	EJG
	Mains Rehabilitation												-			
J1.7	Nominal bore 100mm	KD3AL7	£/m (1dp)	- 1			46.9	B2	49.8	B3	0.0	N	59.1	B2	0.0	N
J1.8	Nominal bore 150mm	KD3AL8	£/m (1dp)	ı			49.3	B2	61.7	B3	0.0	N	69.1	B2	0.0	N
J1.9	Nominal bore 200mm	KD3AL9	£/m (1dp)				51.7	B2	62.4	B3	0.0	N	82.1	B2	0.0	N
J1.10	Nominal bore 300mm	KD3AL10	£/m (1dp)	ı			57.7	B2			0.0	Ν			0.0	N
J1.11	Nominal bore 450mm	KD3AL11	£/m (1dp)	I		-					0.0	N			0.0	N
J1.12	Nominal bore 600mm	KD3AL12	£/m (1dp)	I							0.0	N			0.0	N

					а		b	
					Long Side	EJG	Short side	EJG
	Communication pipes			•				
J1.13	New	KD3AL13	£/unit (1dp)	ı	363.8	B2	198.9	B2
J1.14	Renew	KD3AL14	£/unit (1dp)	I	425.1	B2	392.5	B2

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thorised by: Geoff Aitkenhead

WATER INDUSTRY COMMISSIONER FOR SCOTLAND ऒ

ANNUAL RETURN INFORMATION REQUIREMENTS

ole J1: Water infrastructure standard costs					10	1	20	
	Ofwat	Units &	Field		а		b	
Description	Reference JR 99	format	Туре	Grassland		Rur	ıral/suburban highway	
				Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	
Mains laying						,		
1 Nomimal bore 100mm	KD3AL1	£/m (1dp)	1	N		N		
2 Nomimal bore 150mm	KD3AL2	£/m (1dp)	1	N		N		
3 Nomimal bore 200mm 4 Nomimal bore 300mm	KD3AL3 KD3AL4	£/m (1dp) £/m (1dp)		N N		N N		
5 Nomimal bore 450mm	KD3AL4	£/m (1dp)	i i	N		N N		
6 Nomimal bore 600mm	KD3AL6	£/m (1dp)	i	N		N N		
					10 a		20 b	
					Cement Mortar		Epoxy Resin	
	_			Comment Necessary Y/N	Comment	Comment Necessary Y/N	Epoxy Resin Comment	
Mains Rehabilitation				Necessary		Necessary Y/N		
7 Nomimal bore 100mm	KD3AL7	£/m (1dp)	I !	Necessary		Necessary Y/N		
7 Nomimal bore 100mm 8 Nomimal bore 150mm	KD3AL8	£/m (1dp)	Ì	Necessary		Necessary Y/N N N		
7 Nomimal bore 100mm 8 Nomimal bore 150mm 9 Nomimal bore 200mm				Necessary		Necessary Y/N		
7 Nomimal bore 100mm 8 Nomimal bore 150mm 9 Nomimal bore 200mm 10 Nomimal bore 300mm 11 Nomimal bore 450mm	KD3AL8 KD3AL9 KD3AL10 KD3AL11	£/m (1dp) £/m (1dp) £/m (1dp) £/m (1dp)	Ì	Necessary		Necessary Y/N N N N		
7 Nomimal bore 100mm 8 Nomimal bore 150mm 9 Nomimal bore 200mm 10 Nomimal bore 300mm 11 Nomimal bore 450mm	KD3AL8 KD3AL9 KD3AL10	£/m (1dp) £/m (1dp) £/m (1dp)	Ì	Necessary		Necessary Y/N N N N		
7 Nomimal bore 100mm 8 Nomimal bore 150mm 9 Nomimal bore 200mm 10 Nomimal bore 300mm 11 Nomimal bore 450mm	KD3AL8 KD3AL9 KD3AL10 KD3AL11	£/m (1dp) £/m (1dp) £/m (1dp) £/m (1dp)	Ì	Necessary	Comment	Necessary Y/N N N N	Comment	
7 Nomimal bore 100mm 8 Nomimal bore 150mm 9 Nomimal bore 200mm 10 Nomimal bore 300mm 11 Nomimal bore 450mm	KD3AL8 KD3AL9 KD3AL10 KD3AL11	£/m (1dp) £/m (1dp) £/m (1dp) £/m (1dp)	Ì	Necessary		Necessary Y/N N N N		
7 Nomimal bore 100mm 8 Nomimal bore 150mm 9 Nomimal bore 200mm 10 Nomimal bore 300mm 11 Nomimal bore 450mm	KD3AL8 KD3AL9 KD3AL10 KD3AL11	£/m (1dp) £/m (1dp) £/m (1dp) £/m (1dp)	Ì	Necessary	Comment 10	Necessary Y/N N N N	Comment	
7 Nomimal bore 100mm 8 Nomimal bore 150mm 9 Nomimal bore 200mm 10 Nomimal bore 300mm 11 Nomimal bore 450mm	KD3AL8 KD3AL9 KD3AL10 KD3AL11	£/m (1dp) £/m (1dp) £/m (1dp) £/m (1dp)	Ì	Necessary Y/N	Comment 10 a Long Side	Necessary Y/N	Comment 20 b Short side	
7 Nomimal bore 100mm 8 Nomimal bore 150mm 9 Nomimal bore 200mm 10 Nomimal bore 300mm 11 Nomimal bore 450mm	KD3AL8 KD3AL9 KD3AL10 KD3AL11	£/m (1dp) £/m (1dp) £/m (1dp) £/m (1dp)	Ì	Necessary	Comment 10 a	Necessary Y/N N N N	Comment 20 b	
7. Nomimal bore 100mm 8. Nomimal bore 150mm 9. Nomimal bore 200mm 10. Nomimal bore 300mm 11. Nomimal bore 450mm 12. Nomimal bore 600mm Communication pipes	KD3AL8 KD3AL10 KD3AL10 KD3AL11 KD3AL11	£/m (1dp) £/m (1dp) £/m (1dp) £/m (1dp) £/m (1dp)	Ì	Necessary Y/N Comment Necessary	Comment 10 a Long Side	Necessary Y/N N N N N N N N N N N N N N N N N N	Comment 20 b Short side	
7 Nomimal bore 100mm 8 Nomimal bore 150mm 9 Nomimal bore 200mm 10 Nomimal bore 300mm 11 Nomimal bore 450mm 12 Nomimal bore 600mm	KD3AL8 KD3AL9 KD3AL10 KD3AL11	£/m (1dp) £/m (1dp) £/m (1dp) £/m (1dp)	Ì	Necessary Y/N Comment Necessary	Comment 10 a Long Side	Necessary Y/N N N N N N N N N N N N N N N N N N	Comment 20 b Short side	

Comment Necessary	Comment										
Y/N										A1	
										A2	
N N										A3	
N N										A4 B1	
N.										B1 B2	
1										B3	
i										B4	
•										М.	
	30		40]		50	1		60	N	
	С		d	1		е			f	C1	
	Sliplining		Pipe insertion			Pipe bursting			Other		
				J						C2	
										C3	
Comment Necessary	Comment	Comment Necessary	Comment		Comment Necessary	Comment		Comment Necessary	Comment	C4	
Y/N		Y/N			Y/N			Y/N		D1	
							•			D2	
I	Limited data set (East only)	N	This method is not currently us	ed in S	(N			N	This method is not currently use	ed by Sco D3	
l	Limited data set (East only)	N	This method is not currently us	ed in S	(N			N	This method is not currently use	ed by Sco D4	
1	Limited data set (East only)	N	This method is not currently us					N	This method is not currently use		
		N	This method is not currently us					N	This method is not currently use		
		N	This method is not currently us					N	This method is not currently use		
		N	This method is not currently us					N	This method is not currently use		

Date: April 2003 Revision 6.0 Table 1 of 8

Urban Highway



SUPPLEMENTARY INFORMATION - Cost Base

Table J2: Water mains - projected expenditure

I	Description	Ofwat	Units &	Field	Forecast proportion of
	Description	Reference JR 99	format	Type	expenditure during
					the period 2003/4-06/7

	Mains laying or replacement			
J2.1	Rural field	KD3BL1	% (0dp)	21
J2.2	Rural\suburban highway	KD3BL2	% (0dp)	26
J2.3	Urban highway	KD3BL3	% (0dp)	19

	Mains rehabilitation				
J2.4	Cement mortar	KD3BL4	% (0dp)	I	0
J2.5	Epoxy resin	KD3BL5	% (0dp)		4
J2.6	Sliplining	KD3BL6	% (0dp)	I	7
J2.7	Pipe insertion	KD3BL7	% (0dp)	I	0
J2.8	Pipe bursting	KD3BL8	% (0dp)		23
J2.9	Other	KD3BL9	% (0dp)		0

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Authorised by: Geoff Aitkenhead	Date:

WATER INDUSTRY COMMISSIONER FOR SCOTLAND

ANNUAL RETURN INFORMATION REQUIREMENTS

SUPPLEMENTARY INFORMATION - Cost Base

Table J2: Water mains - projected expenditure

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

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WATER INDUSTRY COMMISSIONER FOR SCOTLAND ■

ANNUAL RETURN INFORMATION REQUIREMENTS

SUPPLEMENTARY INFORMATION - Cost Base

Table J3: Sewerage infrastructure standard costs

	Ofwat	Units &	Field	a		b		С	
Description	Reference JR 99	format	Туре	Grassland	EJG	Rural/suburb an highway	EJG	Urban Highway	EJG
Sewer laying									
J3.1 Diameter 150mm	KD3CL1	£/m (1dp)	- 1	125	B2	189	B2	237	B2
J3.2 Diameter 225mm	KD3CL2	£/m (1dp)	1	152	B2	228	B2	275	B2
J3.3 Diameter 300mm	KD3CL3	£/m (1dp)	I	165	B2	272	B2	309	B2
J3.4 Diameter 450mm	KD3CL4	£/m (1dp)	1	202	B2	323	B2	384	B2
J3.5 Diameter 600mm	KD3CL5	£/m (1dp)	I	249	B2	388	B2	469	B2
J3.6 Diameter 900mm	KD3CL6	£/m (1dp)	I	399	B2	631	B2	731	B2

а		b		С		d	
Polyethylene	EJG	Insituform	EJG	Pipe bursting	EJG	Man entry	EJG

	Sewer Rehabilitation			
J3.7	Diameter 150mm	KD3CL7	£/m (1dp)	ı
J3.8	Diameter 225mm	KD3CL8	£/m (1dp)	I
J3.9	Diameter 300mm	KD3CL9	£/m (1dp)	ı
J3.10	Diameter 450mm	KD3CL10	£/m (1dp)	I
J3.11	Diameter 600mm	KD3CL11	£/m (1dp)	I
J3.12	Diameter 900mm	KD3CL12	£/m (1dp)	I

122 B2		
138 B2	0 N	
161 B2	0 N	
219 B2	0 N	
284 B2		
		410 B2

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Checked by:		
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Authorised by. Geoff Alikerineau	Date	

WATER INDUSTRY COMMISSIONER FOR SCOTLAND

ANNUAL RETURN INFORMATION REQUIREMENTS

SUPPLEMENTARY INFORMATION - Cost Base

Table J3: Sewerage infrastructure standard costs

	Ofwat	Units &	Field
Description	Reference JR 99	format	Туре

10
а
Grassland

20
b
Rural/suburban highway

Comment

Necessary

Urban Highway
С
30

Comment

Necessary

Sewer laying	1		
J3.1 Diameter 150mm	KD3CL1	£/m (1dp)	ı
J3.2 Diameter 225mm	KD3CL2	£/m (1dp)	ı
J3.3 Diameter 300mm	KD3CL3	£/m (1dp)	ı
J3.4 Diameter 450mm	KD3CL4	£/m (1dp)	ı
J3.5 Diameter 600mm	KD3CL5	£/m (1dp)	Ī
J3.6 Diameter 900mm	KD3CL6	£/m (1dp)	Ī

Y/N	
N	
N	
N	
N	

Comment

Necessary Y/N

	Y/N		
			•
N			
N			
N			
N			
N			
N			

20

Insituform

	С		
	30	•	
N			
N			
N			
N			

10
a
Polyethylene

Comment

Comment Necessary	Comment
3701	

Comment Necessary	Comment
3404	

Pipe bursting

Comment Necessary	Comment
Y/N	

	Sewer Rehabilitation			
J3.7	Diameter 150mm	KD3CL7	£/m (1dp)	
J3.8	Diameter 225mm	KD3CL8	£/m (1dp)	ı
J3.9	Diameter 300mm	KD3CL9	£/m (1dp)	ı
J3.10	Diameter 450mm	KD3CL10	£/m (1dp)	ı
J3.11	Diameter 600mm	KD3CL11	£/m (1dp)	
J3.12	Diameter 900mm	KD3CL12	£/m (1dp)	

N		
N		
N		
N		
N		

N	This method is not currently used in Scottish Water
N	This method is not currently used in Scottish Water
N	This method is not currently used in Scottish Water

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 Date:

 Checked by:
 Date:

 Authorised by:
 Geoff Aitkenhead

Edition 1

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Date: April 2003
Table 3 of 8
Revision 6.0



SUPPLEMENTARY INFORMATION - Cost Base

Table J4: Sewerage infrastructure - projected expenditure

	Ofwat	Units &	Field Type	Forecast proportion of
Description	Reference JR 99	format		expenditure during the period 2003-04-2006-07

Sewer laying or replacement				
J4.1 Rural field	KD3DL1	% (0dp)		23
J4.2 Rural\suburban highway	KD3DL2	% (0dp)		37
J4.3 Urban highway	KD3DL3	% (0dp)	I	28

	Sewer rehabilitation			
J4.4	Polyethylene lining	KD3DL4	% (0dp)	0
J4.5	Insituform	KD3DL5	% (0dp)	11
J4.6	Pipe bursting	KD3DL6	% (0dp)	0
J4.7	Man entry	KD3DL7	% (0dp)	1
J4.8	Other	KD3DL8	% (0dp)	0

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Date: April 2003 Revision 6.0

WATER INDUSTRY COMMISSIONER FOR SCOTLAND ■

ANNUAL RETURN INFORMATION REQUIREMENTS

SUPPL	EMENTA	ARY INFORI	MATION -	Cost Base
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Table J4: Sewerage infrastructure - projected expenditure

	Ofwat	Units &	Field Type	Forecast proportion of
Description	Reference JR 99	format		expenditure during the period 2003-04-2006-07

Issues with data
The sum of lines 1 to 8 should equal 100%

No solution required

The sum of lines 1 to 6 should equal 100 /6

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WATER INDUSTRY COMMISSIONER FOR SCOTLAND

ANNUAL RETURN INFORMATION REQUIREMENTS

SUPPLEMENTARY INFORMATION - Cost Base

Table J5: Water non-infrastructure standard costs

Description	Ofwat Reference JR 99	Units & format	Field Type	Standard Cost Estimates	EJG
Water treatment works	1				
J5.1 New treatment works type SW1, 12Ml/d	G51	£/Ml/d (1dp)	I	234201	B2
J5.2 New treatment works type SW1, 5MI/d	G52	£/MI/d (1dp)	I	410921	B2
J5.3 New treatment works type SW2, 30MI/d	KD3E1	£/MI/d (1dp)		173485	B2
J5.4 New filtration system at treatment works, type SW2, 10Ml/d	-	£/MI/d (1dp)	I	98990	B2
J5.5 New filtration system at treatment works, type SW2, 30MI/d	KD3E2	£/MI/d (1dp)	I	82304	B2
Storage					
J5.6 New service reservoir 1MI	-	£/MI (1dp)	!	301735	B2
J5.7 New service reservoir 4MI	KD3E5	£/MI (1dp)	!	174865	B2
J5.8 Refurbishment of service reservoir 6MI	KD3E6	£/Ml (1dp)		28964	B2
Pumping stations					
J5.9 Variable speed Pumps 1 - 3 Ml/d	-	£/MI/d (1dp)	I	0	N
J5.10 Variable speed Pumps 6 - 9 Ml/d	KD3E7	£/MI/d (1dp)	I	0	N
J5.11 Varible speed pump motors 20 Ml/d	-	£/MI/d (1dp)	I	0	N
J5.12 New fixed speed pumpset 20MI/d	-	£/MI/d (1dp)	I	0	N
J5.13 New fixed speed pumpset 10MI/d	KD3E12	£/MI/d (1dp)	I	0	N
Management & General]				
J5.14 Extension to Office accomodation	-	£/sqm (1dp)	I	0	N
J5.15 Satellite stations and transmission station	-	£/outstation (1dp)		0	N

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ANNUAL RETURN INFORMATION REQUIREMENTS

SUPPLEMENTARY INFORMATION - Cost Base

Table J5: Water non-infrastructure standard costs

Table J5: Water non-infrastructure standard costs						_
					10	
Description	Ofwat	Units &	Field	Sta	Indard Cost Estimates	
Description	Reference JR 99	format	Type	Sta	ilidald Cost Estillates	
						•
				Comment	Comment	
				Necessary Y/N		
Water treatment works	1			1711		
	G51	£/MI/d (1dp)	1 1	N.I.		
J5.1 New treatment works type SW1, 12Ml/d	G51 G52	£/Ml/d (1dp)	+	N		
J5.2 New treatment works type SW1, 5Ml/d	KD3E1		+	N N		
J5.3 New treatment works type SW2, 30Ml/d J5.4 New filtration system at treatment works, type SW2, 10Ml/d	KDSET	£/Ml/d (1dp) £/Ml/d (1dp)	+	IN N		
	- KD2E2		+	N		
J5.5 New filtration system at treatment works, type SW2, 30Ml/d	KD3E2	£/Ml/d (1dp)		N		
Storage	1					
J5.6 New service reservoir 1MI		£/MI (1dp)		N		
J5.7 New service reservoir 1MI	KD3E5	£/MI (1dp)	+ ;	N		
J5.8 Refurbishment of service reservoir 6MI	KD3E6	£/MI (1dp)	+	N		
33.6 Retarbishment of service reservoir own	NDSEO	Z/Wii (Tup)	<u> </u>	IN		
Pumping stations	1					
J5.9 Variable speed Pumps 1 - 3 Ml/d	-	£/Ml/d (1dp)		N	SW have no relevant costs for t	his - see commentary
J5.10 Variable speed Pumps 6 - 9 Ml/d	KD3E7	£/MI/d (1dp)		N	SW have no relevant costs for t	
J5.11 Variable speed pump motors 20 Ml/d	-	£/MI/d (1dp)		N	SW have no relevant costs for t	
J5.12 New fixed speed pumpset 20Ml/d	-	£/MI/d (1dp)		N	SW have no relevant costs for t	
J5.13 New fixed speed pumpset 10Ml/d	KD3E12	£/MI/d (1dp)		N	SW have no relevant costs for t	
<u> </u>		` ' '				•
Management & General						
J5.14 Extension to Office accommodation	-	£/sqm (1dp)		N	SW have no relevant costs for t	his - see commentary
J5.15 Satellite stations and transmission station	-	£/outstation (1dp)		N	SW have no relevant costs for t	
	-					•

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SUPPLEMENTARY INFORMATION - Cost Base

Table J6: Non-infrastructure standard sewerage costs

	Description	Ofwat Reference JR 99	Units & format	Field Type	Standard Cost Estimates	EJG
				7 0		
	Sewage structures]				
J6.1	Storage tank to combined sewer overflow 750m3	KD3FL1	£/unit (1dp)		386577	B2
		•				
	Sewage pumping stations					
J6.2	Replacement pumps and motors 12kW	KD3FL2	£/kW (1dp)		1671	B3
J6.3	Replacement pumps and motors 30kW	KD3FL3	£/kW (1dp)		795	B3
J6.4	Replacement pumps and motors 100kW	KD3FL4	£/kW (1dp)		387	B3
		_				
	Treatment Works					
J6.5	Primary treatment works p.e. 10,000	KD3FL5	£/kgBOD5/d (1dp)		1483	B2
J6.6	Additional secondary treatment p.e. 5,000	KD3FL6	£/kgBOD5/d (1dp)		3033	B2
J6.7	Additional secondary treatment p.e. 60,000	-	£/kgBOD5/d (1dp)		956	B2
J6.8	New secondary treatment works p.e. 5,000	KD3FL8	£/kgBOD5/d (1dp)	I	5874	B2
J6.9	New secondary treatment works p.e. 70,000	-	£/kgBOD5/d (1dp)		1705	B2
J6.10	Reconstruction of preliminary treatment p.e. 25,000	KD3FL10	£/kgBOD5/d (1dp)	I	396	B2
J6.11	First time rural sewage treatment p.e. 200	KD3FL11	£/kgBOD5/d (1dp)	I	19047	B2
J6.12	Additional nutrient removal p.e. 12,000	KD3FL12	£/kgBOD5/d (1dp)		557	B3
J6.13	Additional nutrient removal p.e. 40,000	KD3FL13	£/kgBOD5/d (1dp)		216	B3
J6.14	Additional ammonia removal p.e. 2,000	KD3FL14	£/kgBOD5/d (1dp)		2193	B3
J6.15	Additional UV disinfection p.e. 5,000	KD3FL15	£/kgBOD5/d (1dp)	1	0	N
J6.16	Additional UV disinfection p.e. 40,000	KD3FL16	£/kgBOD5/d (1dp)		0	N

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Necessary Y/N

Ν

Ν

Ν

N N

Ν

Ν

ANNUAL RETURN INFORMATION REQUIREMENTS

SUPPLEMENTARY INFORMATION - Cost Base	
_	

Table J6: Non-infrastructure standard sewerage costs

	10
Description Ofwat Units & Field	Standard Cos
Reference JR 99 format Type	Staridard COS

Standard Cost Estimates

Comment
Comment

EJG is low due to limited amount of data.

EJG is low due to limited amount of data.

EJG is low due to limited amount of data.

EJG is low due to limited amount of data.

EJG is low due to limited amount of data. EJG is low due to limited amount of data.

SW have no relevant costs for this - see commentary

SW have no relevant costs for this - see commentary

	Sewage structures				
J6.1	Storage tank to combined sewer overflow 750m3	KD3FL1	£/unit (1dp)	- 1	Ν

	Sewage pumping stations			
J6.2	Replacement pumps and motors 12kW	KD3FL2	£/kW (1dp)	I
J6.3	Replacement pumps and motors 30kW	KD3FL3	£/kW (1dp)	I
J6.4	Replacement pumps and motors 100kW	KD3FL4	£/kW (1dp)	I

	Treatment Works			
J6.5	Primary treatment works p.e. 10,000	KD3FL5	£/kgBOD5/d (1dp)	I
J6.6	Additional secondary treatment p.e. 5,000	KD3FL6	£/kgBOD5/d (1dp)	
J6.7	Additional secondary treatment p.e. 60,000	-	£/kgBOD5/d (1dp)	
J6.8	New secondary treatment works p.e. 5,000	KD3FL8	£/kgBOD5/d (1dp)	
J6.9	New secondary treatment works p.e. 70,000	-	£/kgBOD5/d (1dp)	
J6.10	Reconstruction of preliminary treatment p.e. 25,000	KD3FL10	£/kgBOD5/d (1dp)	
J6.11	First time rural sewage treatment p.e. 200	KD3FL11	£/kgBOD5/d (1dp)	
J6.12	Additional nutrient removal p.e. 12,000	KD3FL12	£/kgBOD5/d (1dp)	
J6.13	Additional nutrient removal p.e. 40,000	KD3FL13	£/kgBOD5/d (1dp)	
J6.14	Additional ammonia removal p.e. 2,000	KD3FL14	£/kgBOD5/d (1dp)	
J6.15	Additional UV disinfection p.e. 5,000	KD3FL15	£/kgBOD5/d (1dp)	
J6.16	Additional UV disinfection p.e. 40,000	KD3FL16	£/kgBOD5/d (1dp)	

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uthorised by: Geoff Aitkenhead	Date:	

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WATER INDUSTRY COMMISSIONER FOR SCOTLAND

ANNUAL RETURN INFORMATION REQUIREMENTS

SUPPLEMENTARY INFORMATION - Cost Base

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

	The composition of invocations by accounty por water of				
		Ofwat	Units &	Field	Forecast proportion of
Description		Reference JR 98	format	Туре	expenditure during the period 2003-04-2006-07
J7.1	Water resources	TG7L1	0/ (Odp)		2
37.1	water resources	IG/LI	% (0dp)	ı	2
	Water treatment works				
J7.2	New surface water upto and including 10Ml/day	-	% (0dp)	I	9
J7.3	New surface water greater than 10MI/d	-	% (0dp)	I	1
J7.4	Upgraded/refurbished surface water upto and including 10Ml/da	-	% (0dp)	- 1	6
J7.5	Upgraded/refurbished surface water greater than 10MI/d	=	% (0dp)	I	4
J7.6	Ground water	TG7L3	% (0dp)	- 1	4
	Treated water storage				
J7.7	New treated water storage	TG7L4	% (0dp)	- 1	2
J7.8	Refurbished treated water storage	10721	% (0dp)	I	5
J7.9	Pumping stations	TG7L5	% (0dp)	I	2
	Mains and Customer Ancilliaries				
J7.10	Potable mains	TG7L6	% (0dp)	1	45
J7.11	Communication pipes	TG7L7	% (0dp)	I	2
J7.12	Management & general	TG7L9	% (0dp)	1 1	18

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ANNUAL RETURN INFORMATION REQUIREMENTS

FOR SCOTLAND **SUPPLEMENTARY INFORMATION - Cost Base**

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

Issues with data	Problem ?	Solution
The sum of lines 1 to 12 should equal 100%	N N	No solution required

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ANNUAL RETURN INFORMATION REQUIREMENTS

SUPPLEMENTARY INFORMATION - Cost Base

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

Description	Ofwat Reference JR 98	Units &	Field Type	Forecast proportion of expenditure during the period 2003-04-2006-07
J8.1 Sewers	TG8L1	% (0dp)	I	27
J8.2 Sewer structures	TG8L2	% (0dp)	I	11
J8.3 Sewage pumping stations	TG8L3	% (0dp)	I	3
Sewage treatment works	1			
J8.4 Preliminary only	TG8L4	% (0dp)	I	1
J8.5 New primary treatment up-to and including 10,000 p.e.	-	% (0dp)	I	1
J8.6 New primary treatment greater than 10,000 p.e.	-	% (0dp)	I	0
J8.7 Upgraded/refurbished primary treatment upto and including 10,000 p.e.	-	% (0dp)	I	4
J8.8 Upgraded/refurbished primary treatment greater than 10,000 p.e.	-	% (0dp)	1	0
J8.9 New secondary treatment up-to and including 10,000 p.e.	-	% (0dp)	I	5
J8.10 New secondary treatment greater than 10,000 p.e.	-	% (0dp)	I	8
J8.11 Upgraded/refurbished secondary treatment upto and including 10,000 p.e.	-	% (0dp)	I	20
J8.12 Upgraded/refurbished secondary treatment greater than 10,000 p.e.	-	% (0dp)	I	6
J8.13 Tertiary treatment	TG8L7	% (0dp)	I	3
J8.14 Sea outfalls	TG8L8	% (0dp)	1 1	1
JO. 17 Ged Outland	IGOLO	% (uup)	1	
J8.15 Sludge treatment and disposal	TG8L9	% (0dp)	I	10

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Checked by:	Date:	
Authorised by: Geoff Aitkenhead	Date:	



SUPPLEMENTARY INFORMATION - Cost Base

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

Issues with data The sum of lines 1 to 15 should equal 100%		Problem ?	Solution No solution required
Prepared by: Checked by:	Date: Date:		
Authorised by: Geoff Aitkenhead	Date:		