

Chapter 16 Non financial measures Sewerage service activities

Covering:

Asset balance at year beginning
Changes during report year
Asset balance at year end
Drainage area plans

Other sewerage service activities



Non financial measures Chapter 16 Sewerage service activities

One table has been provided for NI Water data only. The company shall provide additional data on sewerage activities relating to PPP works in the commentary on an exception basis.

These tables have six blocks and a total of 35 lines.

Network activities provide a good measure of work achieved provided they could be related to associated investment. The investment breakdowns included in these reporting requirements provide this linkage, with the separation of base service expenditure from that related to enhancements on table 36.

Guidance

The six blocks cover:

Asset balance at April 1

This includes a breakdown of sewer lengths defined as "critical". This is downloaded from previous returns.

Changes during report year

This records additions and maintenance of sewers and the number of sewer collapses.

Asset balance at March 31

The aggregate length of sewers shows the cumulative effect of the changes during the report year.

Intermittent discharges

This block covers the total number of intermittent discharges and those which are unsatisfactory.

Drainage area plans

The Information and commentary supplied under this indicator should provide confirmation of the company's approach to the development, evolution and ongoing continued commitment to asset management planning, and demonstrate the currency of its programme of undertaking detailed Drainage Area Plans.

Other sewerage service activities

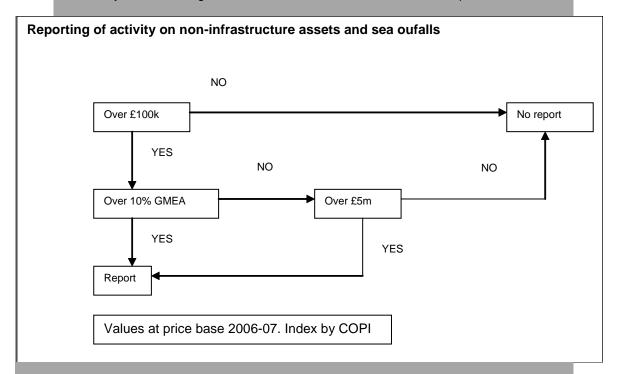
No report is required under Other sewerage activities in the 2010 Annual Information Return.

This section records the amount of capital maintenance activity carried out in the report year on assets other than "critical" and "non-critical" sewers. It also records quality enhancement activity on sewage treatment works.

Companies should report substantive maintenance where expenditure at the relevant site or asset exceeds £5 million or is over £100k and is 10% or more of the Gross



Modern Equivalent Asset (GMEA) value of the relevant asset at 2006-07 price base deflated by COPI. The figure below illustrates the level at which to report:



For projects that span more than one report year the company should report activity in the report year when cumulative expenditure for the relevant project breaches the thresholds.

For large sites companies may group expenditure according to projects or asset groups, but a given works can only be included once each year.

Schemes with quality drivers containing a capital maintenance (MNI) element should be included in line 23 where the MNI element of the expenditure meets the reporting criteria.

Company commentary

The company should:

- report how it is targeting investment to maintain or achieve and maintain stable serviceability;
- for line 13, describe its approach to identifying, counting and dealing with sewer blockage events;
- set down the causes of sewer blockages experienced together with their approximate proportions and confidence grade. For example (not exhaustive):
 - sewer misuse fats, oils and greases;
 - natural roots and silting;
 - structural laterals and sewer deformation; and/or
 - weather pattern first flush after dry period.
- report the policy on recording the number of repeat sewer blockages;
- comment on the number of floodings with no apparent cause which are excluded from blockages cleared data;
- comment on what failure mode events are included under the category of unusable sanitation (for example restricted toilet use or other impediment to drainage from premises);

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 comment on the number of blockages that are associated with flooding incidents reported in tables 3 and 3a respectively.

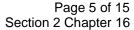
A 'reportable problem' in line 13 means a problem reported in line with company policy.

The company should also:

- where the performance of an intermittent discharge is considered unsatisfactory this information is to be reported in the commentary for Changes during report year (lines 3-12), using a separate sub-heading, Intermittent discharges, in that commentary box;
- where there is a difference between the total number of intermittent discharges given for
 the report year and for the previous year, and this difference cannot wholly be accounted
 for by improvement works i.e. capital schemes (e.g. where the change is partly or
 completely due to better information), then a breakdown detailing how the difference is
 made up should be given;
- where there is a difference between the number of unsatisfactory intermittent discharges
 given for the report year and for the previous year and this difference cannot be wholly
 accounted for by improvement works (either capital schemes or operational changes)
 (e.g. where the change is partly or completely due to reclassification of intermittent
 discharges by the Environment Agency), then a breakdown detailing how the difference is
 made up should be given;
- report on methods and procedures adopted where these differ from the standards specified in the definitions, or from the procedures used in the compilation of the strategic business plan;
- provide a full explanation if, in the view of the company, the reporting of numbers gives a false impression of the level of capital maintenance activity;
- state how many sewage treatment works reported in line 26 (enhanced sewage treatment works for quality) are also reported in line 24 (sewage treatment works refurbished for maintenance);
- provide a method statement which explains fully how the company identifies and reports
 on sewer collapses in line 12 including an explanation of how the company distinguishes
 collapses from other essential repairs to sewers, and the context of the number sewer
 collapses in relation to all sewer repairs;
- identify rising main failures within line 12 and report them in table 16a;
- report on the proportion of sewers repaired as a result of planned CCTV surveys, as opposed to a more reactive approach; and
- comment on the extent of sewer cleaning carried out; and
- complete the following table in the commentary to provide a history of drainage area plan studies to date, as follows (note additional columns should be added if further updates were carried out):

		Initial Study		1 st Update of Initial Study (if applicable)	
DAP Description	Population/ properties (choose as appropriate)	Start Date (actual or proposed)	Completion Date (actual or proposed)	Start Date (actual or proposed)	Completion Date (actual or proposed)

 report on methods and procedures for carrying out drainage area plans and explain any differences from the standards specified in the definitions, or from the procedures used previously. The company should report on:





- any changes to the scope (i.e. how much of the network is covered and the frequency of reviews/ updates) of its infrastructure asset studies.
- any developments (e.g. innovations or improvements) in the information being collected and analysed (e.g. has the amount of CCTV investigations increased during the report year)
- any changes to the way asset and customer data is combined and used to target and plan capital maintenance on infrastructure assets.

A number of lines in this block and Changes during report year report on levels of activity which have been forecast.

The company is required to explain any variances between forecast and actual activity only in as far as:

- there has been a related deterioration in serviceability to customers or the environment, and/or
- the variance is in part or whole the result of a change in the company's policy toward asset maintenance.

Commentary on policy can be limited to exclusion reporting of changes in policy.

Commentary is required on significant revisions to previous data (e.g. as a result of better information from GIS).

In respect of the PPP schemes, the company should report in its commentary by exception on any sewerage activity in the report year covering the categories of new, renovated, and replaced sewers and other activities including abandoned sewers. The company should clarify whether the activity relates to critical or non-critical sewers.

Guidance to the Reporter

The reporter should:

- confirm that the Drainage Area Plans studied conform with the guidance in the definitions, and that if procedures have changed, that revised procedures are adequate for the purpose set out in the definitions;
- comment on the company's commentary in relation to sewerage activity on PPP schemes; assess Confidence Grades on data in the context of the magnitude of adjustments made to data in the past;
- review the consistency of activity with any policy statements made on network activity (and in subsequent years, on changes in policy);
- comment on company activity rates in the context of wide variations of sewer activity rates across the industry and how effectively the company is targeting this activity;
- comment on the accuracy of the proportion of rising main failures within line 12;
- confirm the number of intermittent discharges which have been improved and which
 appear on lists agreed by the Environment Agency confirm that the activity reported in
 lines 23 25 and lines 30 32 is for capital maintenance purposes only and that the
 threshold for reporting this activity has been achieved;
- comment on the company's approach to activity reporting, with regard to the level of aggregation/disaggregation of projects and the reporting thresholds; and
- comment on the company's approach to reporting of blockages, and the accuracy and reliability of the numbers reported; and
- comment on the company's approach to reporting of sewer collapses, and the accuracy and reliability of the numbers reported.



Table 16 line definitions

A ASSET BALANCE AT APRIL 1

1	Total length of sewers	km	2dp
Definition	Total length of sewers.		
	Include gravity sewers, rising mains.		
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Copied: from line 14 (previous year)		
Responsibility	Network Regulation Team		

2	Total length of "critical" sewers	km	2dp
Definition	Total length of "critical" sewers.		
	Definition of "critical" comes from WRc Sewerage Re Manual. Critical sewers are those, whose collapse re expensive or disruptive or those, which are considered strategically important. The principal structural criteric sewer should fail, the subsequent costs would be signified than if rehabilitated before failure [more precise will be found in the WRc Manual].	pairs wed to be on is the nificant	rill be e at if a lly
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Copied: from line 15 (previous year)		
Responsibility	Network Regulation Team	•	•

B CHANGES DURING REPORT YEAR

3	New "critical" sewers	km	2dp
Definition	Length of new "critical" sewers constructed or adopted in report		
	year.		
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		

4	"Critical" sewers – inspection by CCTV/man entry km 2	dp
Definition	Length of "critical" sewers inspected by CCTV/man entry in rep	ort
	year. This includes re-inspection activity.	
Primary Purpose	Confirming delivery of key outputs and service.	
Processing rule	Input	
Responsibility	Network Regulation Team	

5	"Critical" sewers – renovated	km	2dp
Definition	Length of "critical" sewer renovated in report year.		
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		

6	"Critical" sewers – replaced	km	2dp
Definition	Length of "critical" sewers replaced in report year.		
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		



7	Abandoned "critical" sewers and other changes	km	2dp	
Definition	Length of "critical" sewers abandoned in report year, changes to the reported length of "critical" sewers. In of all sewers re-classified as "non-critical" during the Also include corrections of previous data errors or di records improvements. Note: Reductions in length should be treated as posi (in the same way as abandoned lengths) and increas should be treated as negative changes.	relude le report y gitising tive cha	ength /ear. anges	
Primary Purpose	Confirming delivery of key outputs and service.			
Processing rule	Input			
Responsibility	Network Regulation Team			

8	New "non-critical" sewers	km	2dp
Definition	Length of "non-critical" sewers constructed or adopted in report		
	year.		
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		

9	"Non-critical" sewers – renovated	km	2dp	
Definition	Length of "non-critical" sewers renovated in the report year.			
Primary Purpose	Confirming delivery of key outputs and service.			
Processing rule	Input			
Responsibility	Network Regulation Team			

10	"Non-critical" sewers – replaced	km	2dp
Definition	Length of "non-critical" sewers replaced in the report	year.	
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		

11	Abandoned "non-critical" sewers and other changes	km	2dp
Definition	Length of "non-critical" sewers abandoned in the rep other changes to the reported length of "non-critical" Include length of all sewers re-classified as "critical" report year. Also include corrections of previous data digitising records improvements. Note: Reductions in length should be treated as position the same way as abandoned lengths) and increases should be treated as negative changes.	sewers during t a errors tive cha	he or unges
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		



	Ceeti		ιαρισι τ
12	Sewer collapses per 1,000km	nr	1dp
Definition	Number of sewer collapses per thousand kilometres of all sewers Include bursts to rising mains, even where failures are accidental rather than weakness in pipe condition. All third party damage should be excluded where costs are potentially (rather than actually) recovered from a third party. If the incidents are significant, they should be reported in the commentary.		ental
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		

13	Sewer blockages per 1,000km	nr	1dp
Definition	Number of sewer blockage events that required clea thousand kilometres of all sewers. Exclude blockage good will on private sewers and private drains. A blo obstruction in a sewer which causes a reportable procaused by hydraulic overload), such as flooding or d watercourse, unusable sanitation, surcharged sewer	s cleare ckage is oblem (r ischarge	ed as s an not e to a
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		·

C ASSET BALANCE AT MARCH 31

14	Total length of sewers	km	2dp
Definition	Total length of sewers. Include gravity sewers, rising	mains.	
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Calculated: sum of lines 1, 3 and 8 less lines 7 and 1	1	
Responsibility	Network Regulation Team		

15	Total length of "critical" sewers	km	2dp
Definition	Total length of "critical" sewers		
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Calculated: The sum of lines 2 and 3 less line 7.		
Responsibility	Network Regulation Team		



D INTERMITTENT DISCHARGES

400	Number of upostiofs stary intermetable discharge		۵ ما م
16a	Number of unsatisfactory intermittent discharges excluding CSOs (Environment Agency)	nr	0dp
Definition	The number at the end of the report year. This numb	er shou	ıld
	include emergency overflows at pumping stations, st		
	overflows at inlets to works and storm tank discharge		
	exclude combined sewer overflows. This comprises		
	identified by the Environment Agency for improveme		not
	yet improved.		
	Do not include new unsatisfactory intermittent discha		
	(excluding CSOs) identified by the Environment Age		
	production of the SBP. This number should be provided	ded in ti	ne
	commentary accompanying the table.		
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		
responsibility	Thetwork Regulation Team		
16b	Number of unsatisfactory intermittent discharges -	nr	0dp
100	CSOs (Environment Agency)	""	оар
Definition	The number of unsatisfactory CSOs at the end of the	report	vear
	This number should exclude emergency overflows at		
	stations, storm overflows at inlets to works and storm		
	discharges. This comprises those identified by the Er		nent
	Agency for improvement and not yet improved.		
	Do not include new unsatisfactory CSOs identified by		
	Environment Agency after the production of the SBP		
	number should be provided in the commentary accor	mpanyii	ng the
D.'	table.		
Pressesing rule	Confirming delivery of key outputs and service.		
Processing rule	Input Network Perulation Team		
Responsibility	Network Regulation Team		
17	Number of intermittent discharges excluding CSOs	nr	0dp
Definition	The total number of intermittent discharges (excluding		
Deminion	the sewerage system at the end of the report year. T		
	should include emergency overflows at pumping stat		
	overflows at inlets to works and storm tank discharge		01111
	exclude combined sewer overflows.		
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule			
Responsibility			
• •	Input		
17a	Input	nr	0dp
17a Definition	Input Network Regulation Team		
	Input Network Regulation Team Number of CSOs The total number of CSOs on the sewerage system at the report year. This number should exclude emerge	at the e ncy	nd of
	Input Network Regulation Team Number of CSOs The total number of CSOs on the sewerage system a	at the e ncy	nd of
	Input Network Regulation Team Number of CSOs The total number of CSOs on the sewerage system at the report year. This number should exclude emerge overflows at pumping stations, storm overflows at inleand storm tank discharges.	at the e ncy	nd of
Definition Primary Purpose	Input Network Regulation Team Number of CSOs The total number of CSOs on the sewerage system at the report year. This number should exclude emerge overflows at pumping stations, storm overflows at inle	at the e ncy	nd of
Definition	Input Network Regulation Team Number of CSOs The total number of CSOs on the sewerage system at the report year. This number should exclude emerge overflows at pumping stations, storm overflows at inleand storm tank discharges.	at the e ncy	nd of

Ε **DRAINAGE AREA PLANS**

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18	Cumulative number of drainage area plans completed	nr	0dp
Definition	Cumulative number of drainage area plan studies completed and maintained by the end of the report year since the start of the programme.		
	Studies are defined as: Drainage area plan studies are expected to use the full investigation procedure set out in the Sewerage Rehabilitation Manual (WRc). Maintenance of studies means a review of study area changes and update of models.		
	Abbreviated investigations may be substituted where that there are no hydraulic problems with the sewers relevant drainage area (see SRM vol 1 para 2.5).		ear
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		·

19	Drainage area plans ongoing	nr	0dp
Definition	Number of drainage area plan studies in progress at end of the report year.	the repo	ort
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		

20	Total sewerage drainage areas	nr	0dp
Definition	Total number of sewerage drainage areas within the area. Where separate models cover several drainage as for modelling interceptor sewers) then these can be part of the total number of plans.	areas	(such
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		

21	Cumulative % drainage area plan studies completed	%	1dp
Definition	Cumulative percentage of drainage area plan studies by the end of the current report year since the start of programme.		eted
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Calculated: Line 18 ÷ Line 20 x 100	•	•
Responsibility	Network Regulation Team	-	



22	% population/properties covered by completed studies	%	1dp
Definition	Percentage of population/properties in undertaker's area covered by completed drainage area studies. Company estimate is required for either population or properties (whichever is considered most representative by company, based on models) covered by detailed completed and maintained drainage area plan studies.		rties
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		

F OTHER SEWERAGE SERVICE ACTIVITIES

23	Number of intermittent discharges refurbished for maintenance	nr	0dp
Definition	Number of intermittent discharges undergoing substate refurbishment for capital maintenance purposes in the year. Substantive refurbishment implies capital main excess of £5m or over £100k and 10% of the gross the existing asset at the SBP price base deflated by	e repor tenance /IEA val	in in
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		

24	Number of sewage treatment works refurbished for maintenance	nr	0dp
Definition	Number of existing sewage treatment works undergo substantive refurbishment for capital maintenance pureport year. Substantive refurbishment implies capital maintenance in excess of £5m or over £100k and 10 gross MEA value of the existing works at the SBP pudeflated by COPI.	urposes al 9% of the	е
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		

25	P.e. of refurbished sewage treatment works for maintenance	000	0dp
Definition	Capacity (p.e.) of existing, sewage treatment works of substantive refurbishment for capital maintenance put report year. Substantive refurbishment implies capital maintenance in excess of £5m or over £100k and 10 gross MEA value of the existing works at the SBP put deflated by COPI.	urposes al % of the	in the
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		



		011 2 01	
26	Number of new or enhanced sewage treatment works for quality	nr	0dp
Definition	The number of new or enhanced works completed d	uring th	Ф
	report year to deliver new quality obligations. These		
	enhancements must have been included in the SBP	or at a	
	subsequent interim determination.		
	Sewage treatment works which are closed as a direct		
	imposition of a new quality obligation should not be in		
	the total. However, the sewage treatment works to w		
	flows are transferred should be included if enhancement		
	accommodate the additional flows and/or meet tighted	er treatn	nent
	standards are carried out.		
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input T		
Responsibility	Network Regulation Team		
27	Do of now or enhanced sowers treatment works	000	Odn
21	P.e. of new or enhanced sewage treatment works	000	0dp
Definition	for quality The population equivalent of new or enhanced sewa	ac tract	mont
Definition	works completed during the report year to deliver ne		
	obligations. These enhancements must have been in		
	SBP or at a subsequent interim determination.	iciuueu	III UIE
	obi of at a subsequent interim determination.		
	In the case of sewage treatment works that are enha	nced to	,
	accommodate transferred flows from a closed sewage		
	works, the population equivalent should also include		
	closed works.		
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		
28	First time sewerage - number of schemes	nr	0dp
	completed		
Definition	The number of first time sewerage schemes complet		ng the
	report year. These are schemes included in the SBP		
	Please explain in the commentary if there have been		
	timescale or priorities to the original FTS programme	unclude	ed in
		morado	
	the company strategic business plan.		
Primary Purpose	the company strategic business plan. Confirming delivery of key outputs and service.		
Primary Purpose Processing rule Responsibility	the company strategic business plan.		



29	First time sewerage schemes – properties	nr	0dp
Definition	The number of existing properties that have connected able to connect to the public sewerage system for the due to the completion of Article 157 schemes implement the report year. These are projects listed in the SBP. The method for assessing the number of connectable must be the same one used by the company in its SI reporter should confirm that this is the case. These are properties in projects which fulfil the criter Article 157 of the Water and Sewerage Services (No Ireland) Order 2006.	e first tinented of the properties. The iangle under	me, during rties
Drimory Durance	Note: report year		
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		

30	Number of sludge treatment works refurbished for maintenance	nr	0dp
Definition	Number of existing sludge treatment works undergoi substantive refurbishment for capital maintenance pureport year. Substantive refurbishment implies capital maintenance in excess of £5m or over £100k and 10 gross MEA value of the existing works at the SBP pudeflated by COPI.	urposes al % of the	e
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		

31	Number of pumping stations refurbished for maintenance	nr	0dp
Definition	Number of existing pumping stations undergoing sub- refurbishment for capital maintenance purposes in the year. Substantive refurbishment implies capital main excess of £5m or over £100k and 10% of the gross of the existing works at the SBP price base deflated by	ie repor tenance MEA val	t e in lue of
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		

32	Number of sea outfalls refurbished for maintenance	nr	0dp
Definition	Number of existing sea outfalls undergoing substantice refurbishment for capital maintenance purposes in the year. Substantive refurbishment implies capital main excess of £5m or over £100k and 10% of the gross the existing asset at the SBP price base deflated by	ie repor tenance MEA val	e in
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		



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33	Number of investigations completed related to the	nr	0dp
	quality programme		
Definition	The total number of investigations completed during year. These are the investigations included in the SE include investigations carried out as part of a larger part of the second seco	BP. Dor	
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		



CHANGE CONTROL SHEET

CHAPTER 16

2008/1.0	First issue of chapter for the SBP period
2009/1.0	Second issue of chapter for the SBP period
	- block F reporting requirements removed
	- EHS references changed to EA
	- Tables amended for PPP and NIW+PPP reporting
2010/1.0	Third issue of chapter for the SBP period
	- Tables reduced to a single table for NI Water only report.
	- PPP sewerage activities to be reported in the commentary by exception.