

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
Sewerage Service Outputs



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 27 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.

Sewerage service outputs

The Information and commentary provided in this section should confirm the company's approach and commitment to the delivery of sewerage outputs for PC10.

Nominated sewerage service outputs

The Information and commentary provided in this section should confirm the company's approach and commitment to the delivery of nominated water outputs for PC10.



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);
- 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 313), 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 PC10 business plan;
- 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):

Annual Information return reporting requirements and definitions manual 2011 Issue 1.0– March 2011



		Initial	Study	1 st Update of Initial Study (i 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 table report on levels of activity which have been forecast. The company should:

- confirm whether PC10 outputs have either been met or are on target to meet due dates;
- provide commentary to explain any variances between forecast and actual activity during
 the report year including, where appropriate, any amendments and additional outputs
 agreed by stakeholders through the PC10 Change Control Protocol. The company should
 also provide an indication of the effect any delays may have on the delivery of its overall
 environmental programme.

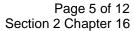
Commentary is required on significant revisions to previous data (e.g. as a result of better information from GIS).

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 that the activity and outputs reported in the table have been achieved and comment on the company's explanation for any variances between forecasts and actuals during the report year.





- 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 Remanual. Critical sewers are those, whose collapse reexpensive 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].	epairs wed to be on is the	rill be e at if a ly
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 2dp			
Definition	Length of "critical" sewers inspected by CCTV/man entry in report			
	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 direcords improvements. Note: Reductions in length should be treated as posi (in the same way as abandoned lengths) and increase should be treated as negative changes.	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 posi (in the same way as abandoned lengths) and increas should be treated as negative changes.	sewers during t a errors tive cha	he or anges
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		



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.		
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 bloobstruction in a sewer which causes a reportable procaused by hydraulic overload), such as flooding or diwatercourse, 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

16a	Number of unsatisfactory intermittent discharges excluding CSOs (Environment Agency)	nr	0dp
Definition	The number at the end of the report year. This numb 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 yet improved. Do not include new unsatisfactory intermittent discha (excluding CSOs) identified by the Environment Age production of the PC10 Final Determination. This numbe provided in the commentary accompanying the tallows.	orm es but those ent and i arges ncy afte mber sh	not er the
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		

4Cb	No well-an af consettate at an electronic transfer at all all and a		O -l
16b	Number of unsatisfactory intermittent discharges -	nr	0dp
	CSOs (Environment Agency)		
Definition	The number of unsatisfactory CSOs at the end of the This number should exclude emergency overflows at stations, storm overflows at inlets to works and storm discharges. This comprises those identified by the Edgency for improvement and not yet improved. Do not include new unsatisfactory CSOs identified by Environment Agency after the production of the PC1 Determination. This number should be provided in the commentary accompanying the table.	t pumpi n tank nvironm y the 0 Final	ng
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		

17a	Number of intermittent discharges excluding CSOs	nr	0dp
Definition	The total number of intermittent discharges (excludin 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 exclude combined sewer overflows.	his num ions, st	nber
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		

17b	Number of CSOs	nr	0dp
Definition	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 inland storm tank discharges.	ency	
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team		



E DRAINAGE AREA PLANS

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	the repo	ort
	end of the report year.		
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 undertakers area. Where separate models cover several drainage areas (such as for modelling interceptor sewers) then these can be included as part of the total number of plans.		
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.	comple the	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 a by completed drainage area studies. Company estimate is required for either population of (whichever is considered most representative by considering most representative by co	or prope npany, l	rties
	on models) covered by detailed completed and main drainage area plan studies.	tained	
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input		
Responsibility	Network Regulation Team	-	

F SEWERAGE SERVICE OUTPUTS

23	Delivery of improvements to nominated UIDs as part of a defined programme of work.	nr	0dp
Definition	The number of nominated unsatisfactory intermi having achieved the beneficial use milestone as Capital Investment Monitoring submission in the Only report the nominated outputs schemes incl FD Annex N1 02.00 subject to any amendments stakeholders through the PC10 Change Control	defined for period. uded in the agreed by	or the e PC10
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input field		
Responsibility	Network Regulation Team		

24	Delivery of improvements to WWTW through nominated schemes as part of a defined programme of work.	nr	0dp
Definition	The number of nominated wastewater treatment having achieved the beneficial use milestone as Capital Investment Monitoring submission in the Only report the nominated outputs schemes incl FD Annex N1 02.00 subject to any amendments outputs agreed by stakeholders through the PC1 Protocol.	defined for period. Unded in the and addit	er the PC10 ional
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input field		
Responsibility	Network Regulation Team		

25	Investment in improvements to small wastewater treatment works as part of the rural wastewater investment programme.	£m	1dp
Definition	Expenditure in the period on improvements to sr treatment works carried out under the Rural Was Investment Programme agreed with NIEA. Expenditure at 2007-08 prices using COPI as a	stewater	water
Primary Purpose	Confirming delivery of key outputs and service.		
Processing rule	Input field		
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.
2011/1.0	- First issue of chapter for the PC10 period Block F amended to collect
	information on PC10 outputs.