

# Chapter 17f

## Sewerage service explanatory factors

Covering:  
Sewage treatment works: costs

## Chapter 17f

# Sewage treatment works: costs

### Guidance

The purpose of these tables is to collect information on the costs of different types and sizes of sewage treatment works (STWs). This includes a separate table for works operating under a PPP contract only while the first table should include costs of NI Water's works only, with the third table being the sum of the first two. The costs required to complete the table do not include the PPP operator costs. These are collected in Table 43. The PPP only section of this table refers to the costs **incurred by NI Water** associated with operating the PPP facilities. These costs should be consistent with the PPP only section of Table 22.

The company should endeavour to populate the tables with as much information tabulated as possible. This information will be used in our sewage treatment works models to assess the company's comparative operating efficiency.

The STW size banding is described in the general guidance and under table 17c.

The company must check that the following data are consistent.

- Total direct costs in table 17f (line 7, column 11) should equal total direct costs for sewage treatment in table 22 (line 9, column 2);
- Power costs in table 17f (line 10, column 11) should equal power costs for sewage treatment in table 22 (line 2, column 2);
- Service charges in table 17f (line 11, column 11) should equal service charges for sewage treatment in table 22 (line 7, column 2);
- General and support in table 17f (line 12, column 11) should equal general and support expenditure for sewage treatment in table 22 (line 10, column 2); and
- Total direct costs for works in size band 6 in table 17f (line 6, column 11 {NI Water only table}) should equal the sum of direct costs in table 17b (line 9).

### The company must also check that:

- Where costs have been reported in table 17f, a corresponding load is reported in table 17d; and
- Where costs have been reported in table 17f, corresponding works is reported in table 17c.

### Company commentary

The company should:

- reveal any assumptions made in cost allocations; and
- comment where there are significant problems in allocating costs, for example in the separation of sludge treatment costs or pumping station costs from those of STWs.

### Guidance to Reporter

The Reporter should comment on:

- the methods used to allocate costs to the various sizes and types of STWs, and ensure that all assumptions have been revealed;
- the accuracy of the figures reported; and

- whether the figures reported here reconcile with those reported elsewhere (table 22) and on the reasons for any inconsistency.

## Table 17f line definitions

### A SMALL WORKS

<b>1</b>	Direct costs of STWs in size band 1	£000	3dp
<b>Definition</b>	The total direct costs of STWs in size band 1 by treatment category.		
<b>Primary Purpose</b>	Informing relative performance and efficiency assessments.		
<b>Processing rule</b>	Input: line 1 column 1 to 10 Calculated: line 1 column 11 is the sum of line 1 column 1 to 10.		
<b>Responsibility</b>	Comparative Efficiency and Performance Team		

<b>2</b>	Direct costs of STWs in size band 2	£000	3dp
<b>Definition</b>	The total direct costs of STWs in size band 2 by treatment category.		
<b>Primary Purpose</b>	Informing relative performance and efficiency assessments.		
<b>Processing rule</b>	Input: line 2 column 1 to 10 Calculated: line 2 column 11 is the sum of line 2 column 1 to 10.		
<b>Responsibility</b>	Comparative Efficiency and Performance Team		

<b>3</b>	Direct costs of STWs in size band 3	£000	3dp
<b>Definition</b>	The total direct costs of STWs in size band 3 by treatment category.		
<b>Primary Purpose</b>	Informing relative performance and efficiency assessments.		
<b>Processing rule</b>	Input: line 3 column 1 to 10 Calculated: line 3 column 11 is the sum of line 3 column 1 to 10.		
<b>Responsibility</b>	Comparative Efficiency and Performance Team		

<b>4</b>	Direct costs of STWs in size band 4	£000	3dp
<b>Definition</b>	The total direct costs of STWs in size band 4 by treatment category.		
<b>Primary Purpose</b>	Informing relative performance and efficiency assessments.		
<b>Processing rule</b>	Input: line 4 column 1 to 10 Calculated: line 4 column 11 is the sum of line 4 column 1 to 10.		
<b>Responsibility</b>	Comparative Efficiency and Performance Team		

<b>5</b>	Direct costs of STWs in size band 5	£000	3dp
<b>Definition</b>	The total direct costs of STWs in size band 5 by treatment category.		
<b>Primary Purpose</b>	Informing relative performance and efficiency assessments.		

<b>Processing rule</b>	Input: line 5 column 1 to 10 Calculated: line 5 column 11 is the sum of line 5 column 1 to 10.
<b>Responsibility</b>	Comparative Efficiency and Performance Team

## B LARGE WORKS

<b>6</b>	Direct costs of STWs in size band 6	£000	3dp
<b>Definition</b>	The total direct costs of STWs in size band 6 by treatment category.		
<b>Primary Purpose</b>	Informing relative performance and efficiency assessments.		
<b>Processing rule</b>	Input: line 6 column 1 to 10 Calculated: line 6 column 11 is the sum of line 6 column 1 to 10.		
<b>Responsibility</b>	Comparative Efficiency and Performance Team		

## C ALL WORKS

<b>7</b>	Total direct costs of STWs - all sizes	£000	3dp
<b>Definition</b>	The total direct costs associated with STWs of all sizes falling within each treatment category. The 'total' (column 11) is the total direct cost for all STWs and sea outfalls. This 'total' should reconcile with table 22 line 9 column 2.		
<b>Primary Purpose</b>	Informing relative performance and efficiency assessments.		
<b>Processing rule</b>	Calculated: each column in line 7 is the sum of lines 1 to 6 above		
<b>Responsibility</b>	Comparative Efficiency and Performance Team		

<b>8</b>	Sludge treatment and disposal adjustments	£000	3dp
<b>Definition</b>	The adjustment needed to remove at the aggregate level (by category of works) any sludge treatment costs included in lines 1 - 6. If no adjustment is required (i.e. sludge treatment and disposal costs are excluded) this will be zero. Otherwise, if the adjustment is required the company must explain this adjustment in their commentary.		
<b>Primary Purpose</b>	Informing relative performance and efficiency assessments.		
<b>Processing rule</b>	Input: line 8 column 1 to column 10 Calculated: line 8 column 11 is the sum of line 8 column 1 to 10		
<b>Responsibility</b>	Comparative Efficiency and Performance Team		

<b>9</b>	Sewage treatment: direct costs	£000	3dp
<b>Definition</b>	The total sewage treatment direct costs for each type of sewage treatment. (This should exclude sludge treatment and disposal costs). The total should equal that shown in table 22 line 9 column 2.		
<b>Primary Purpose</b>	Informing relative performance and efficiency assessments.		
<b>Processing rule</b>	Input: line 9 column 1 to 10 Calculated: line 9 column 11 is the sum of line 9 column 1 to 10.		
<b>Responsibility</b>	Comparative Efficiency and Performance Team		

<b>10</b>	Sewage treatment: power costs	£000	3dp
<b>Definition</b>	The total power costs for each type of sewage treatment works. The total for this line should reconcile with table 22 line 2 column 2.		
<b>Primary Purpose</b>	Informing relative performance and efficiency assessments.		
<b>Processing rule</b>	Input: line 10 column 1 to 10 Calculated: line 10 column 11 is the sum of line 10 column 1 to 10.		
<b>Responsibility</b>	Comparative Efficiency and Performance Team		

<b>11</b>	Sewage treatment: service charges	£000	3dp
<b>Definition</b>	The total service charges (Northern Ireland Environment Agency) for each type of sewage treatment works. The total for this line should reconcile with table 22 line 7 column 2.		
<b>Primary Purpose</b>	Informing relative performance and efficiency assessments.		
<b>Processing rule</b>	Input: line 11 column 1 to 10 Calculated: line 11 column 11 is the sum of line 11 column 1 to 10.		
<b>Responsibility</b>	Comparative Efficiency and Performance Team		

<b>12</b>	Sewage treatment: general and support (NIW Only)	£000	3dp
<b>Definition</b>	The general and support expenditure allocated by NIW only to sewage treatment for each type of STW. The total for this line must reconcile with table 22 line 10 column 2.		
<b>Primary Purpose</b>	Informing relative performance and efficiency assessments.		
<b>Processing rule</b>	Input: line 12 column 1 to 10 Calculated: line 12 column 11 is the sum of line 12 column 1 to 10.		
<b>Responsibility</b>	Comparative Efficiency and Performance Team		

<b>13</b>	Sewage Treatment: Functional Expenditure	£000	3dp
<b>Definition</b>	The sum of direct costs and general support expenditure for sewage treatment. The total for this line must reconcile with table 22 line 11 column 2.		
<b>Primary Purpose</b>	Informing relative performance and efficiency assessments.		
<b>Processing rule</b>	Calculated: each column in line 13 is calculated as the sum of line 9 plus line 12		
<b>Responsibility</b>	Comparative Efficiency and Performance Team		

**CHANGE CONTROL SHEET**  
**CHAPTER 17f**

2008/1.0	First issue of chapter for the SBP period
2009/1.0	Second issue of chapter for the SBP period - processing rule for line 9 amended - Line 12a added for PPP - Additional tables for PPP only and total (NIW + PPP) added -
2010/1.0	Third issue of chapter for SBP period - Line 12a no longer required
2011/1.0	First issue of chapter for PC10 period - No changes