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Chapter 17g Sewerage service explanatory factors

Covering: Sludge treatment and disposal



Chapter 17g Sludge treatment and disposal

Guidance

Three tables have been provided. One for NIW data only, one for PPP data only and a third which will be the sum of the NIW and PPP tables.

The purpose of these tables is to collect information about sewage sludge disposal routes, and the costs of sludge treatment and disposal associated with each of those routes.

This information will be used to update our modelling of the sewerage service to enable assessment of the comparative operating efficiency of the company's sewerage services.

Process losses, such as gas lost to the atmosphere, are included in the percentages entering each disposal route and must not be assigned to the 'Other' category.

The routes are classified as:

Farmland – Untreated:	Spreading untreated sewage sludge direct to farmland
Farmland – Conventional:	Spreading conventionally treated sewage sludge to farmland
Farmland – Advanced:	Spreading "advanced" treated sewage sludge to farmland
Incineration:	Sewage sludge disposed of by incineration
Landfill:	Sewage sludge disposed in landfill sites
Composted:	Sewage sludge disposed by means of composting
Land Reclamation:	Sewage sludge disposed of to land reclamation projects
Other:	Any other form of sewage sludge disposal; for example, gasification, forestry, or silviculture.

Disposal to farmland includes sludge spread on non-food crops.

Un-adopted septic tank activities

For the purposes of this table and the AIR, un-adopted septic tank activities are unregulated and should therefore be excluded. Adopted tank activity (i.e. Housing Executive tanks) should still be accounted for in the tables. Within the table commentary NIW must provide:

- The total excluded cost associated with this unregulated activity;
- A breakdown of this total figure by collection, treatment and disposal costs;
- A commentary on how these costs were arrived at and any assumption made
- The number of unregulated septic tanks collected from within the reporting year;
- The total load (ttds) collected from unregulated septic tanks



The company must check that the following data are consistent.

- Amount of sewage sludge disposed of in table 17g (line 2, column 9) should equal total sewage sludge disposed of in table 15 (line 16);
- Sludge treatment and disposal: direct costs in table 17g (line 5, column 9) should equal total direct costs for sludge treatment & disposal in table 22 (line 9, column 3);
- Sludge treatment and disposal: power costs in table 17g (line 6, column 9) should equal power costs for sludge treatment & disposal in table 22 (line 2, column 3);
- Sludge treatment and disposal: Service charges in table 17g (line 7, column 9) should equal service charges for sludge treatment & disposal in table 22 (line 7, column 3); and
- Sludge treatment and disposal: general and support expenditure in table 17g (line 8, column 9) should equal general and support expenditure for sludge treatment & disposal in table 22 (line 10, column 3);
- Sludge treatment and disposal: functional expenditure in table 17g (line 9, column 9) should equal functional expenditure for sludge treatment and disposal in table 22 (line 11, column 3).

The company should also provide data relating to services provided by its PPP wastewater contractor operated works. These data should be included in both the PPP table and the total table as indicated.

Company commentary

The company should:

- clearly explain any significant changes in sludge disposal routes that have occurred since this information was last collected;
- provide a clear explanation of any sludge disposal methods that are classed as 'Other'. In accordance with RAG4, the cost of mechanical sludge de-watering and sludge transfers to sewers and other works must be included in this table;
- comment on the reasons for any significant increases in the costs associated with a
 particular disposal route. For the purposes of this table, significant changes are those
 which amount to more than 5% of total sludge treatment and disposal costs, or more than
 10% of any individual category; and
- only report the amount of sludge treated during the report year. This may not be the same as the amount of sludge disposed in the year. The company should explain any large movements between stockpiled and disposed stock.

Guidance for Reporter

The Reporter should comment on:

- the accuracy of the reported information;
- the reasonableness of any changes in the company's costs for different disposal routes since this information was last available;
- the reasonableness of assumptions made in separating out unregulated septic tank costs.



1	Resident population served	000	1dp
Definition	The resident population contributing to the particular disposal route. Sludge disposal routes are as defined beginning of this chapter. The population equivalent used in place of the resident population.	l at the	t be
Primary Purpose	Informing relative performance and efficiency assess	ments.	
Processing rule	Input: line 1 column 1 to column 8		
	Calculated: line 1 column 9 is the sum of line 1 colum	n 1 to 8	3.
Responsibility	Comparative Efficiency and Performance Team		

Table 17g line definitions

2	Amount of sewage sludge	ttds	1dp
Definition	The amount of sewage sludge (including grit and scre thousand tonnes of dry solids (ttds) which is disposed each of the routes listed. The total for this line should table 15 line 16. The company must submit the amount entering (not I treatment and disposal process for each of the routes Process losses, such as gas lost to the atmosphere, included in the amount entering each disposal route a	d of thro agree v eaving) s listed. are ther	ugh with the refore
	be assigned to the 'Other' category.		
Primary Purpose	Informing relative performance and efficiency assess	ments.	
Processing rule	Input: line 2 column 1 to column 8		
	Calculated: line 2 column 9 is the sum of line 2 colum	n 1 to 8	3.
Responsibility	Comparative Efficiency and Performance Team		

3	Sludge treatment: direct costs	£000	3dp
Definition	The direct costs attributable to sludge treatment for e disposal routes. Column 9 'total' is the direct cost of s treatment for all disposal routes.		he
Primary Purpose	Informing relative performance and efficiency assess	ments.	
Processing rule	Input: line 3 column 1 to column 8 Calculated: line 3 column 9 is the sum of line 3 colum The PPP table commentary should split this figure ou capital maintenance and any operator profit.		
Responsibility	Comparative Efficiency and Performance Team		

4	Sludge disposal: direct costs	£000	3dp
Definition	The total sludge disposal direct costs attributable to e disposal routes. Column 9 'total' is the direct cost of sludge disposal for routes.		
Primary Purpose	Informing relative performance and efficiency assess	ments.	
Processing rule	Input: line 4 column 1 to column 8		
	Calculated: line 4 column 9 is the sum of line 1 colum	n 1 to 8	3.
Responsibility	Comparative Efficiency and Performance Team		



5	Sludge treatment & disposal: direct costs	£000	3dp
Definition	The direct costs attributable to sludge treatment and each of the disposal routes. Column 9 is the total direct cost of sludge treatment a for all routes. This total should reconcile with table 22 column 3.	and disp	
Primary Purpose	Informing relative performance and efficiency assess	ments.	
Processing rule	Calculated: for each column line 5 is the sum of line 3	3 and lir	ie 4.
Responsibility	Comparative Efficiency and Performance Team		

6	Sludge treatment & disposal: power costs	£000	3dp
Definition	The sludge treatment and disposal power costs for each of the sludge treatment and disposal power costs for each of the sludge treatment and the s		
	disposal routes. Column 9 is the power cost for sludg and disposal for all disposal routes and should recon-		
	22 line 2 column 3.		lable
Primary Purpose	Informing relative performance and efficiency assess	ments.	
Processing rule	Input: line 6 column 1 to column 8		
	Calculated: line 6 column 9 is the sum of line 6 colum	n 1 to 8	3.
Responsibility	Comparative Efficiency and Performance Team		

7	Sludge treatment & disposal: service charges	£000	3dp
Definition	The service charges for sludge treatment and dispose the disposal routes including regulation and legal cos is the total service charge for all disposal routes. This	ts. Colu	mn 9
	reconcile with table 22 line 7 column 3.		
Primary Purpose	Informing relative performance and efficiency assess	ments.	
Processing rule	Input: line 7 column 1 to column 8		
	Calculated: line 7 column 9 is the sum of line 7 colum	n 1 to 8	8.
Responsibility	Comparative Efficiency and Performance Team		

8	Sludge treatment & disposal: general & support	£000	3dp
	exp.		
Definition	The general and support expenditure for sludge treat disposal allocated to each of the disposal routes. Col total general and support expenditure for all disposal total should reconcile with table 22 line 10 column 3.	umn 9 i	s the
Primary Purpose	Informing relative performance and efficiency assess	ments.	
Processing rule	Input: line 8 column 1 to column 8		
	Calculated: line 8 column 9 is the sum of line 8 colum	n 1 to 8	3.
Responsibility	Comparative Efficiency and Performance Team		

9	Sludge treatment & disposal: functional expenditure £000 3dp)
Definition	The sum of direct costs and general support expenditure for sludge treatment and disposal. The total for this line should reconcile with table 22 line 11 column 3.	
Primary Purpose	Informing relative performance and efficiency assessments.	
Processing rule	Calculated: for each column line 9 is the sum of line 5 and line 8.	
Responsibility	Comparative Efficiency and Performance Team	

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CHANGE CONTROL SHEET CHAPTER 17g

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 3 amended Additional table added for PPP and Total data