

For the April 2009 reporting period onwards there are some changes to WasteDataFlow questions to allow the materials going to recycling following treatment of the residual waste stream to be included in the Mass Balance.

Recycling from the Residual Stream

Currently more recycling is being recovered from the residual stream than in previous years. So recording this has become important to ensure the completeness of the data and the accuracy of the mass balance.

Within WDF question number 19 records the materials collected for recycling (by type) going to each recycling/reprocessor facility. The assumption that the figures in Qu19 are from the 'collected' stream is used in the National Indicators, in balancing checks and analytical reports.

The solution therefore needed to keep the figures for 'recycling from residual' separate from the 'collected for recycling'. We looked at adding fields into Qu19, but this was thought to make Qu19 too complicated. So the solution chosen was to create a copy of Qu19 that we have imaginatively named Qu19a.

This question 19a operates in exactly the same way as Qu19 but should be used to record recycled material recovered by treatment of the residual waste stream. In effect this means those tonnages entered as recycling output in questions 54 to 65 (excluding qu58 the main MRF question which already goes into Qu19).

What is the effect of answering Qu19a

Currently only recycle from waste collected for recycling (Qu19) is used in the mass balance. The mass balance will now include waste sent for recycling that has been extracted from residual waste following treatment. This waste will contribute to Div_T and Div_B in the mass balance. This means that it will affect the RB% too (waste sent for landfill is multiplied by the RB% to calculate BMW landfilled.)

Inclusion of the recyclable materials in the mass balance will affect individual authorities differently depending on the quantities of residual waste recycled and the biodegradability of that material.

The main change is to the RB% (see table at the end of this document)

Do I need to answer Qu19a

In order to ensure consistency the Environment Agency have made it compulsory that UAs and WDAs in England answer Qu19a if they answer any of the residual waste treatment questions (Questions 54 -65, excluding Qu58)

If you are a WDA with back allocation then consult the helpdesk or the on-line helpsheet.

WCAs do not need to answer Qu19a, although if involved in back allocation please check with the helpdesk.

Recycling Materials Flow, Qu70

The tonnages in Qu19a will give the total of material weights going to individual reprocessors. Qu70 which was introduced in 2008/9 has been expanded so that you can track the tonnage of each material sent to recycling from each of questions 56, 57, 59, 60, 64 and 65. Questions 54 and 55 have a metal output that could be recycled but as this is only one material type it is not included in Qu70.

Do I need to answer Qu70

Question 70 remains optional for England local authorities

Example Mass Balance accounting for Qu19a

	Residual Municipal Waste	Remains the same	
MSW _T	Total Collected Municipal Waste	Remains the same	Recycling and reuse tonnages from Q10, 11, 12, 16, 17, 18, 33, 34 (WCA) & Q11 & 14 (WDA) (including collection rejects) plus residual waste from Q23 (WDA).
	BMW %	Remains the same	National figure under LATS Deemed percentage of biodegradable component of municipal waste in England.
BMW _T	Total Biodegradable Municipal Waste	Remains the same	$BMW\% \times MSW_T$
Div _T	Total Collected Municipal Waste Diverted	Increased by all of Qu19a	Recycling & Reuse tonnages sent to final destination Q19 & 35 (WCA & WDA) minus any tonnage rejected at the gate of the reprocessor.
Div _B	Biodegradable Content of Diverted Waste	Increased by biodegradable quantity of Qu19a.	Nominal biodegradable content of each material (see Material Summary) multiplied against the Net total collected municipal waste diverted in Q19 & 35 (Div _T).
Res _T	Total Residual Waste	Reduced by all Qu19a	$MSW_T - Div_T$
Res _B	Biodegradable Content of Residual Waste	Reduced by biodegradable quantity of Qu19a	$BMW_T - Div_B$
RB%	Residual Biodegradable Percentage	Change depends on Qu19a biodegradable element	$(Res_B / Res_T) \times 100$
L _D	Directly Landfilled Municipal Waste	Remains the same	Tonnage of waste sent directly to landfill Q51-53 (WDA).
L _{Th}	Landfilled after Thermal Treatment	Remains the same	Tonnage of Incinerator Bottom Ash sent to landfill Q54 & 55 (WDA) and tonnage of char/slag sent to landfill Q57 (WDA).
L _{MBT}	Landfilled after MBT	Remains the same	Tonnage sent to landfill Q59 (WDA).
MBT _{RF}	MBT Reduction Factor	1	Site-specific factor calculated by Environment Agency by which MBT reduces RB%
L _{OT}	Landfilled after Other Treatment	Remains the same	Output tonnage of waste sent to landfill from Q56, 60, 64, 65. Residue to landfill Q61, 62 & 63 (WDA).
Div _R	Rejected Diverted	increase by Qu19a rejects	Recycling and reuse reject tonnages from Q10,11,12,16,17,33,34 (WCA) & Q11 & 14 (WDA). Rejects at gate of reprocessor Q19 & 35 (WCA&WDA). Plus MRF rejects Q58 (WCA&WDA).
BMW _L	Biodegradable Municipal Waste Landfilled	May increase or decrease (same x changed RB%) + (same x same) + (same x (changed RB% x same)) + (same x changed RB%) + (higher x changed RB%)	$(L_D \times RB\%) + (L_{Th} \times 0) + (L_{MBT} \times (RB\% \times MBT_{RF})) + (L_{OT} \times RB\%) + (Div_R \times RB\%)$