

Overview of the process

Information regarding the current collection method was analysed to take account of the following:

- How is each type of waste currently collected and treated?
- Where does it sit on the waste hierarchy? (i.e. is it landfilled, recovered, recycled, reused, prevented)
- Are measures being taken to make sure it is as high up the hierarchy as possible?
- Where material is going through a Material Recycling Facility, what is the quality of each output stream?
- How much of the material is recycled?
- What is the cost for collection?
- How much carbon is produced?
- How much residual waste is produced?
- What is the recycling rate
- Any other constraints. (i.e min tonnages)

The CDC collection system has been modelled against a kerbside sort collection system in order to evaluate its performance against a set of evaluation criteria. These criteria have been designed to take account of the guidance given in the Roadmap when considering the technical, environmental and economic practicability of making changes to waste the collection service provided. The criteria have been assigned weighting in order to produce an evaluation score.

Evaluation outcomes

Following the evaluation of the new recycling service against the old recycling service, the evaluation has shown that the **new service scores higher** than the old collection system when combining evaluated scores under the following headings.

- Total cost
- Position in the waste hierarchy
- Carbon produced
- Material capture rates
- Performance indicators

The scores achieved were

Existing service (alternate weekly collections for; garden+food, residual, co-mingled dry recycling, separate glass recycling) = **88.01%**

Kerbside sort service (alternate weekly, boxes for recycling, bins for residual/garden waste, no separate food collections) = **86.65%**

Appendix 1 - TEEP Evaluation

Award Criteria	% weighting	ISDS Sub Criteria Level 2	% weighting	actual	ISDS Sub Criteria Level 3	% Split	actual%	actual
Level 1				%				score
Cost per tonne	40	Cost per tonne	40	40	Cost per tonne for each waste stream. Score will be apportioned to compare costs for each material type.	100	40	4000
Environmental Impact	40	Position in the waste hierachy	33	13.2	Points awarded from 1 – 5 dependant on the position on the waste hierarchy	100	13.6	1360
		Total Carbon Produced	34	13.6	Carbon produced in relation to disposal activity	50	6.8	680
					Carbon produced in relation to vehicles / fuel used for collection activity	50	6.8	680
		Capture rates for each material	33	13.2	Glass	20	2.64	264
					Plastics	20	2.64	264
					Paper	20	2.64	264
					Cans	20	2.64	264
					Organic Food	10	1.32	132
Organic Garden	10	1.32	132					
Service quality and customer satisfaction (20%)	20	Performance Indicators	40	8	Waste Data Flow - BVPI 82a&b Percentage of Household Waste Arisings Sent For Recycling Composting or Anerobic Digestion	50	4	400
					Waste Data Flow Residual Waste per Household	50	4	400
		Customer satisfaction survey results	30	6		100	6	600
		Levels of litter	30	6	% performance of the old BV indicator 195 which measured the number of monitored locations which reached the standard as agreed in the code of practice for litter	100	6	600

100

100

100.4

10040

Appendix 1 - TEEP Evaluation

Financial Evaluation Model	Maximum Points	CDC Recycling Service		Kerbside Sort Recycling Service
Total Sum		£48.39		£62.89
Area In Green Self Calculating - Do Not Input Information in this area				
		£47.84		£62.89
Lowest COST = Max Total Points	4000			
Lowest Value	£47.84			
Percentage to reduce to lowest Tender		0.00%		23.93%
Collection method lowest price is awarded Maximum Points (100). Thereafter for every percentage point above the Lowest price there is a deduction in points to the same value	Points to be deducted	0.00		23.93
Points awarded to remaining methods		4000.00		3976.07
Contract Weighting and Total Points awarded	100.0%	4000.00		3976.07

Notes

The collection system with the lowest cost scores 100%.

The collection system that has a higher cost will have points deducted on a percentage basis according to by how much reduction is required to match the best cost.

Appendix 1 - TEEP Evaluation

Carbon Evaluation Model	Maximum Points		CDC Recycling Service		Kerbside Sort Recycling Service
Total Sum			2,841.00		3,987.00
Area In Green Self Calculating - Do Not Input Information in this area					
			2,841.00		3,987.00
Lowest COST = Max Total Points	1360				
Lowest Value	2,841.00				
Percentage to reduce to lowest Tender			0.00%		28.74%
Collection method lowest price is awarded Maximum Points (100). Thereafter for every percentage point above the Lowest price there is a deduction in points to the same value	Points to be deducted		0.00		28.74
Points awarded to remaining methods			1360.00		1331.26
Contract Weighting and Total Points awarded	100.0%		1360.00		1331.26

Appendix 1 - TEEP Evaluation

Performance Evaluation Model (Capture rates & recycling rates)

CDC Recycling Service		Recycling	13738.06	Residual	25885.64			
	%	tonnage	%	tonnage	total	% captured		
Glass	23.6	3242.182	4.22	1092.374	4334.556	74.80%*	BVPI 82a&b Percentage of Household Waste Arisings Sent For Recycling Composting or Anerobic Digestion	
Plastics	12.05	1655.436	14.5	3753.418	5408.854	30.61%		
Paper	55.35	7604.016	14.31	3704.235	11308.25	67.24%		
Cans	4.03	553.6438	4.95	1281.339	1834.983	30.17%		
Food		0	29.17	7550.841	7550.841	0.00%**		
Garden		17675.16	5.87	1519.487	19194.65	92.08%	Residual Waste per Household	
								442

*Glass collected separately, not kerbside

**Food mixed with garden

Kerbside Sort Recycling Service		Recycling	6827	Residual	18871			
	%	tonnage	%	tonnage	total	% captured		
Glass	17.68	1207.014	1.93	364.2103	1571.224	76.82%	BVPI 82a&b Percentage of Household Waste Arisings Sent For Recycling Composting or Anerobic Digestion	
Plastics	21.52	1469.17	14.43	2723.085	4192.256	35.04%		
Paper	56.16	3834.043	12.01	2266.407	6100.45	62.85%		
Cans	4.16	284.0032	2.53	477.4363	761.4395	37.30%		
Food	0		32.37	6108.543	6108.543	0.00%		
Garden	0	10085	5.13	968.0823	11053.08	91.24%	Residual Waste per Household	
								515

Appendix 1 - TEEP Evaluation

Residual Waste Per Household	Maximum		CDC Recycling Service		Kerbside Sort Recycling Service
	Points				
Total Sum			442.00		515.00
Area In Green Self Calculating - Do Not Input Information in this area					
			442.00		515.00
Lowest COST = Max Total Points	400				
Lowest Value	442.00				
Percentage to reduce to lowest Tender			0.00%		14.17%
Collection method lowest price is awarded Maximum Points (100). Thereafter for every percentage point above the Lowest price there is a deduction in points to the same value	Points to be deducted		0.00		14.17
Points awarded to remaining methods			400.00		385.83
Contract Weighting and Total Points awarded	100.0%		400.00		385.83

Appendix 1 - TEEP Evaluation

Award Criteria	% weighting	Sub Criteria Level 2	% weighting	actual	Sub Criteria Level 3	% Split	actual%	Maximum possible score	CDC Recycling Service	Kerbside Sort Recycling Service
Level 1				%						
Cost per tonne	40	Total cost	40	40	Cost per tonne for each waste stream. Score will be apportioned to compare costs for each material type.	100	40	4000	4000	3976
Environmental	40	Position in the waste hierarchy	33	13.2	Points awarded from 1 – 5 dependant on the position on the waste hierarchy	100	13.6	1360	626	577
Impact		Total Carbon Produced	34	13.6	Carbon produced in relation to disposal activity	50	6.8	680	680	666
					Carbon produced in relation to vehicles / fuel used for collection activity	50	6.8	680	680	666
		Capture rates for each material	33	13.2	Glass	20	2.64	264	197.47	203
					Plastics	20	2.64	264	80.80	93
					Paper	20	2.64	264	177.52	166
					Cans	20	2.64	264	79.65	98
					Organic Food	10	1.32	132	0.00	0
		Organic Garden	10	1.32	132	121.55	120			
Service quality		20	Performance Indicators (40%)	40	8	Waste Data Flow - BVPI 82a&b Percentage of Household Waste Arisings Sent For Recycling Composting or Anerobic Digestion	50	4	400	215.6
Waste Data Flow Residual Waste Per Household	50					4	400	400	386	
and customer	Customer satisfaction survey results (30%)		30	6		100	6	600	510	468
satisfaction (20%)	Levels of litter		30	6	% performance of the old BV indicator 195 which measured the number of monitored locations which reached the standard as agreed in the code of practice for litter	100	6	600	588	570
				100			100.4	10040	8357 83.23	8188 81.56

Evaluation Summary

<u>Evaluation</u>	CDC Recycling Service	Kerbside Sort Recycling Service
Quality and Service Delivery Evaluation	8357	8188
Financial Evaluation	4000	3976
Total Points Awarded	12357	12164

Higher score is better

Total possible

14040

88.01%

86.64%