

Appendix 1: Key statistics for each scenario by waste stream

Key for Tables 1 – 3:

- AsIs – current model
- Tac S1 – Scenario 1 (no change to collection days)
- Tac S2 – Scenario 2 (collection days changed)

Table 1: Residual Waste

Overall Refuse AsIs vs Tact S1 vs Tact S2			
	AsIs	Tac S1	Tac S2
Rounds	80	80	75
Vehicles	16	16	15
Crew Days	220	220	205
Min Time	4.3	3.5	3.1
Max Time	8.3	7.9	7.1
Avg Time	6.0	6.2	6.5
Total Time	481	493	485
Min Miles	23.1	24.9	10.5
Max Miles	128.8	134.0	135.5
Avg Miles	69.5	75.3	76.0
Total Miles	5,563	6,026	5,699
Min Locations	81	81	95
Max Locations	1,222	1,516	1,478
Avg Locations	830	830	885
Total Locations	66,374	66,374	66,374
Min Bins	81	81	95
Max Bins	1,324	1,620	1,637
Avg Bins	864	864	922
Total Bins	69,117	69,117	69,117
Min Yield	1.3	1.3	1.6
Max Yield	24.6	30.4	31.5
Avg Yield	12.6	12.6	13.4
Total Yield	1,005	1,005	1,005
Min Tips	1	1	1
Max Tips	3	3	3
Avg Tips	1.8	1.7	1.8
Total Tips	143	136	137

Table 2: Recycling

Overall Recycling AsIs vs Tact S1 vs Tact S2				
	AsIs	Tac S1	Tac S2 MDR	Tac S2 P&C
Rounds	80	80	75	75
Vehicles	16	16	15	15
Crew Days	220	220	205	205
Min Time	4.4	3.5	2.6	2.6
Max Time	8.4	7.9	7.8	7.2
Avg Time	6.1	5.8	6.4	5.6
Total Time	487	462	478	423
Min Miles	18.9	19.6	17.3	10.7
Max Miles	92.2	123.9	114.2	107.2
Avg Miles	61.8	60.8	64.3	52.9
Total Miles	4,947	4,862	4,824	3,966
Min Locations	81	81	95	95
Max Locations	1,222	1,536	1,478	1,478
Avg Locations	830	830	885	885
Total Locations	66,376	66,376	66,376	66,376
Min Bins	81	81	95	95
Max Bins	1,224	1,536	1,478	1,478
Avg Bins	835	835	891	891
Total Bins	66,811	66,811	66,811	66,811
Min Yield	0.7	0.7	1.0	0.4
Max Yield	14.3	12.1	17.2	6.7
Avg Yield	6.4	6.4	9.9	3.8
Total Yield	516	516	742	289
Min Tips	1	1	1	1
Max Tips	2	2	3	2
Avg Tips	1.2	1.3	2.0	1.0
Total Tips	99	103	148	77

Note - When the rounds were designed paper and card were still being collected comingled in the silver bin. Tac S2 includes separating the waste stream and optimising the rounds.

Table 3: Garden Waste

Overall Garden AsIs vs Tact S1 vs Tact S2			
	AsIs	Tac S1	Tac S2
Rounds	50	50	40
Vehicles	5	5	4
Crew Days	150	150	120
Min Time	3.8	4.3	5.1
Max Time	7.0	6.3	6.8
Avg Time	5.2	5.4	6.0
Total Time	261	268	242
Min Miles	31.5	31.5	39.5
Max Miles	91.1	91.0	85.7
Avg Miles	56.8	60.7	59.9
Total Miles	2,841	3,033	2,394
Min Locations	316	145	388
Max Locations	1,171	1,032	1,096
Avg Locations	596	596	745
Total Locations	29,795	29,795	29,795
Min Bins	341	210	516
Max Bins	1,341	1,153	1,149
Avg Bins	698	698	872
Total Bins	34,879	34,879	34,879
Min Yield	3.8	3.3	6.3
Max Yield	13.4	11.2	11.4
Avg Yield	7.6	7.6	9.5
Total Yield	379	379	379
Min Tips	1	1	1
Max Tips	2	2	2
Avg Tips	1.1	1.0	1.1
Total Tips	53	52	45