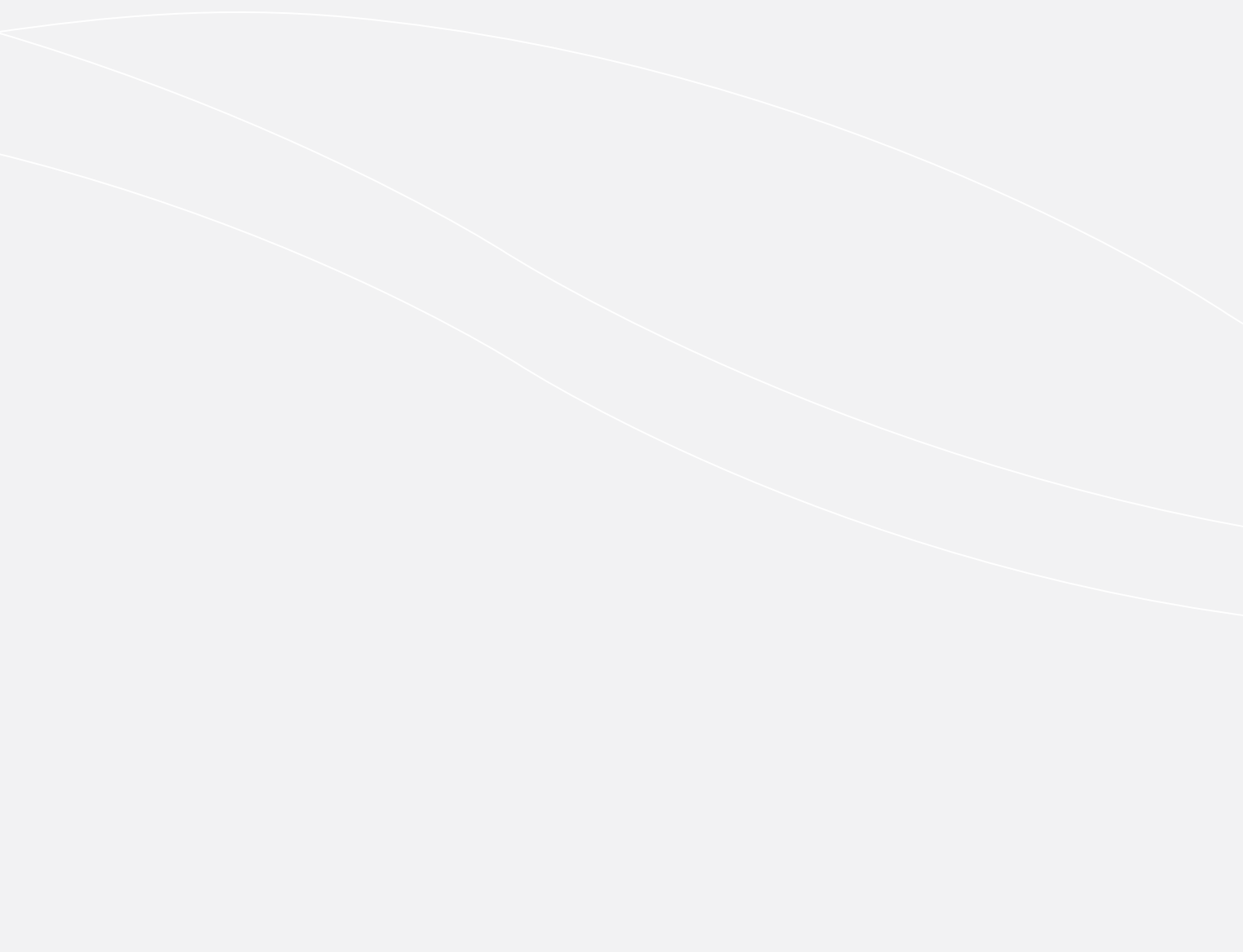



## Appendix 17b

# Greenhouse Emissions Calculations

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Carbon Emissions Calculations			
Project Number	East Rockingham	Date	13-Jan-12
Project Title	East Rockingham	Revision	B
Sheet Name		Sheet	1

TOTAL WASTE STREAM	fraction mass %	component tpa (wet)
Food	17	22,127
Green	10	12,902
Paper/card	21	26,940
Mixed plastics	14	18,168
PVC	0	111
Textiles	9	11,708
Metals	0	261
Glass (large)	0	200
Other inerts	0	389
Dirt & small rocks/rubble	0	227
Sand, glass & ceramic fines	0	218
Oily waste	1	1,845
Wood	26	34,527
Rubber	1	1,271
Tyres	0	-
Oil Filters	0	-
Concrete/rubble (large)	0	264
Bricks	0	190
	<b>100</b>	<b>131,348</b>

Industrial materials and tyres that are derived from fossil fuels, if recycled and combusted to produce heat or electricity	2	3,116
Non-biomass municipal materials, if recycled and combusted to produce heat or electricity	23	29,987

Using NGERs method 1 under section 5.53 using Schedule 3 carbon contents

Waste Composition	E =	Q x	CC x	FCC x	OF x	3.664
	tonnage					
	131,348					
Component	mass%	mass tpa	carbon content CC	fossil fraction FCC	oxidation factor OF	E (CO2eq) tpa
Food	16.8	22,127	0.000	0.0	1.00	-
Green	9.8	12,902	0.000	0.0	1.00	-
Paper/card	20.5	26,940	0.000	0.0	1.00	-
Mixed plastics	13.8	18,168	0.250	1.0	1.00	16,642
PVC	0.1	111	0.250	1.0	1.00	102
Textiles	8.9	11,708	0.250	1.0	1.00	10,725
Metals	0.2	261	0.000	0.0	1.00	-
Glass (large)	0.2	200	0.000	0.0	1.00	-
Other inerts	0.3	389	0.000	0.0	1.00	-
Dirt & small rocks	0.2	227	0.000	0.0	1.00	-
Sand, glass & ceramic fines	0.2	218	0.000	0.0	1.00	-
Oily waste	1.4	1,845	0.585	1.0	1.00	3,955
Wood	26.3	34,527	0.000	0.0	1.00	-
Rubber	1.0	1,271	0.585	1.0	1.00	2,724
Tyres	0.0	0	0.585	1.0	1.00	-
Oil Filters	0.0	0	0.585	1.0	1.00	-
Concrete/rubble	0.2	264	0.000	0.0	1.00	-
Bricks	0.1	190	0.000	0.0	1.00	-
	<b>100.00</b>	<b>131,348</b>				<b>34,147</b>