Appendix A

Assumptions and Exclusions

Appendix A Assumptions and Exclusions

Assumptions

The following assumptions have been used in the preparation of this inventory:

- Fuel used for all construction vehicles and by all vehicles to transport materials is diesel oil
- The energy content factor for diesel oil is 38.6 GJ/kL (DCC, NGA Factors, June 2009. Table 4)
- The Scope 1 emission factors for the combustion of diesel oil are:
  - EFCO2: 69.2 kg CO2-e/GJ
  - EFCH4: 0.2 kg CO2-e/GJ
  - EFN2O: 0.5 kg CO2-e/GJ (DCC, NGA Factors, June 2009. Table 4)
- The Scope 3 emission factor for diesel oil is 5.3 kg CO2-e/GJ (DCC, NGA Factors, June 2009. Table 38)
- Transport of materials to/from site is by road only
- Fuel used for transport of materials to/from site is diesel (general transport), with a fuel consumption rate of 0.542L/km
- Fuel used for transport of staff is gasoline, with a fuel consumption rate of 0.107L/km
- The Scope 2 emission factor for consumption of purchased electricity from the grid in NSW is 0.89 kg CO2-e/kWh (DCC, NGA Factors, June 2009. Table 5)
- The Scope 3 emission factor for consumption of purchased electricity from the grid in NSW is 0.18 kg CO2-e/kWh (DCC, NGA Factors, June 2009. Table 39)
- All construction materials will be delivered by the supplier, therefore the Scope 1 and Scope 3 emissions associated with the transport of construction materials will be categorised as a scope 3 emissions for the project.
- Fuel used during transportation of materials is calculated based on round trips
- 15,000 tonnes of waste per annum will be landfilled
- The existing waste transfer station is proposed to be used during the operation of the Armidale Regional Landfill.
- The landfill management will be responsible for the transport of waste and cover material to the landfill site.
- The landfill will operate for 6 days a week, 52 weeks a year.
- Vegetation *temporarily* cleared will be revegetated as part of the construction works. Whilst removal of vegetation within the development footprint would be *permanent*, clearing for access and compound areas would be temporary as these areas would be rehabilitated post-construction.
- 12.7 ha of vegetation will be permanently cleared.

Materials

Bulk Densities

- Clay Density – 2.82 t/m3
- Fill/Cover Material Density – 2.0 t/m3
- HDPE Density – 0.97 t/m3
- Gravel Density – 1.522 t/m3
- Soil Density – 1.800 t/m3

Waste

It was assumed that the waste landfilled will be transported from the existing waste transfer facility on Long Swamp Road to the proposed landfill site. Three trucks per day will deliver the waste to the landfill.

The landfill will be classed as a General Solid Waste (putrescibles) landfill. It is Council's longer term objective, however, to begin operating the landfill, as soon as possible in the future (and then until final closure) only as a General Solid Waste (non-putrescible) facility, when appropriate additional off-site sorting and/or treatment technologies are able to be procured and successfully employed.

Exclusions

This assessment excludes GHG emissions associated with:

- The end of life (demolition, decommissioning, etc) of the project's infrastructure (site sheds, road, etc)
- The use of materials and construction equipment for maintenance purposes
- The mixed waste generated by construction and operational staff
- The removal of any existing infrastructure
- The operation, maintenance and sorting of waste at the waste transfer station
- Fugitive emissions of refrigerants from refrigeration and air conditioning systems
- Support services for the facility

Appendix B

Input Data and Resource Consumption Calculations

Appendix B Input Data and Resource Consumption Calculations

Typical Excavation Dimensions	**Per Cell**
Width (m)	80
Length (m)	275
Depth (m)	14
Area (m2)	22,000
Volume (m3)	308,000

Material requirements for landfill and pond lining	**Quantity**
Landfill cell area (m2)	22,000
Number of Cells	5
Total landfill area (m2)	110,000
Leachate pond base area (m2)	4,900
Total area of landfill and leachate pond which will be lined (m2)	114,900
Thickness of clay lining (m)	0.3
Clay required (for landfill and leachate pond lining) (m3)	***34,470***
HDPE thickness for lining (m)	0.0015
HDPE required (for landfill and leachate pond lining) (m3)	***172.35***
Thickness of gravel for leachate drainage layer (m)	0.3
Gravel required for leachate drainage layer (m3)	***33,000***

Material requirements for landfill cap	**Quantity**
Surface area of landfill cap (m2)	171,366
Thickness of revegetation layer (Soil) (m)	1
Volume of soil required (m3)	***171,366***
Thickness of gravel drainage layer (m)	0.3
Volume of gravel required (m3)	**51,410**
Thickness of clay capping (m)	0.5
Volume of clay required (m3)	**85,683**
Volume of Waste and Cover (m3)	211,000
Percentage of cover	20%
Cover material required (m3)	**42,200**

Note: The above estimate of the construction materials which will be used in the project's construction is based on the preliminary concept design.

Use of Construction Materials - Scope 3 GHG Emissions

Emission Source	Quantity (m3	Density (t/m	Quantity (t)	Scope 3 Emis	Source	Total Scop (l)	Haulage Capacity	Movement s	Distance (km)	Total Km Travelled	Fuel Efficiency (L/km)	Fuel Used (kL)
Clay	130,153	2.82	358,831	0.012	Ecoinvent Database	678	25	37,187	55	1,021,858	0.542	553,816
Gravel	64,410	1.532	128,472	0.017	Ecoinvent Database	699	25	10,276	53	565,278	0.542	306,374
HDPE	179.15	0.87	187	2.171	Ecoinvent Database	363	15	22	106	2,259	0.542	1,698
Soil	171,363	1.9	308,459	0.015	Ecoinvent Database	463	25	24,677	50	1,233,935	0.542	668,809
Cover Material	42,290	1.8	75,960	0.015	Ecoinvent Database	114	10	15,192	50	759,600	0.233	214,567
TOTAL						2,357					Total fuel use	1,995,291

Use of Fuel to Transport Construction Materials - Scope 1 & 3 GHG Emissions												
						Scope 1 Emission factor (EF) kg/CO2e			Total Scope 1 GHG Emissions	Scope 3 Emission Factor (EF)	Scope 3 GHG Emissions	Total GHG Emissions (t CO2-e)
Purpose	Vehicle Type	Fuel Type	Fuel Efficiency (L/km)	Fuel Used (kL)	Energy Content Factor (GJ/kL)	CO2	CH4	N2O	(tCO2e)	kg/CO2e/GJ	(tCO2e)	
Construction Materials Transport	Heavy	Diesel	0.542	1,995	38.6	69.2	0.2	0.5	5,394	5.3	439	5,804

Use of Fuel By Construction Equipment Onsite - Scope 1 & 3 GHG Emissions										ANNUAL				TOTAL - 50 YRS		
							Scope 1 Emission Factor (EF)			Total Scope 1 GHG Emissions	Scope 3 Emission Factor (EF) kg/CO2e/GJ	Scope 3 GHG Emission	Total GHG Emissions (t CO2-e)	Total Scope 1 GHG Emissions	Scope 3 GHG Emission	Total GHG Emissions (t CO2-e)
Equipment	Diesel Consumption (L/hr)	Daily Work Duration (hr/day)	Total Work Duration (hr/yr)	Annual Diesel Consumption (kL/yr)	Total Diesel Consumption (kL/50yrs)	Energy Content Factor (GJ/kL)	CO2	CH4	N2O	(tCO2e)		(tCO2e)		(tCO2e)	(tCO2e)	
Excavator	30	2	624	13.72	636	38.6	69.2	0.2	0.5	91	5.3	4	94	2,523	91	2,717
Water Cart	15	8	2496	37.44	1,872	38.6	69.2	0.2	0.5	101	5.3	8	109	5,051	383	5,434
Dozer	30	6	1872	56.16	2,808	38.6	69.2	0.2	0.5	152	5.3	11	163	7,576	574	8,151
Compactor	20	8	2496	44.92	2,496	38.6	69.2	0.2	0.5	135	5.3	11	145	6,735	511	7,246
Grader	25	2	624	15.6	780	38.6	69.2	0.2	0.5	42	5.3	3	45	2,103	160	2,264
Tipper Truck	30	6	1872	37.44	1,873	38.6	69.2	0.2	0.5	101	5.3	8	109	5,051	383	5,434
Tank	15	2	624	9.36	468	38.6	69.2	0.2	0.5	25	5.3	2	27	1,263	96	1,359
Scrapper	20	3	624	12.48	624	38.6	69.2	0.2	0.5	34	5.3	3	36	1,684	128	1,811
TOTAL					11,659				Total	649		49	680	31,903	2,423	34,415

Use to Transport Waste to Landfill - Scope 1 & 3 GHG Emissions																
								Scope 1 Emission factor (EF) kg/CO2				Total Annual Scope 1 GHG Emission	Total 50 yr Operational Scope 1 GHG	Scope 3 Emission Factor (EF)	Annual Scope 3 GHG Emission	Operational 50yr Scope 3 GHG Emission	Total Annual GHG Emissions
Purpose	Vehicle Type	Fuel Type	Fuel Efficiency (l/km)	Daily Trip Frequency	Distance (km)	Annual Distance Travelled (km)	Annual Consumption (kL)	Energy Content Factor (GJ/kL)	CO2	CH4	N2O	(tCO2e)	(tCO2e)	kg/CO2e/GJ	(tCO2e)	(tCO2e)	(t CO2-e)
Waste Transport	MRV	Diesel	0.233	3	54.3	102,586	29	38.6	69.2	0.2	0.5	73	3,317	5.3	6	297	84

*No waste transport fuel use is based on 3 trucks per day travelling between the transfer station & the landfill

1,452 Total Fuel Consumption for Ships

Electricity Use Onsite

Equipment	Power (W)	No of Unit	Operating hours/day (hr)	Annual Energy Consumption (kWh)
Multi Functional Device/printers	450	1	8	1,232.2
Microwave	1120	1	0.5	174.72
Toaster	1500	1	0.5	234
Kettle	2400	1	0.5	374.4
Standard maker	1000	1	0.5	156
Fridge freezers	160	4	24	14976
Computer	150	2	8	1872
Airconditioning	1000	2	10	3640
Lighting	60	10	0	2246.4
Total				10,619

Use of electricity Onsite - scope 2 & 3 GHG emissions

Annual Energy Consumption (kWh)	Years operating	Scope 2 Emission factor (EF) kgCO2e-eMWh	Annual Scope 2 GHG Emissions (tCO2e)	Total 50 yr Scope 2 GHG Emissions (tCO2e)	Scope 3 Emission factor (EF) kgCO2e-eMWh	Annual Scope 1 GHG Emission s (tCO2e)	Total 50 yr Scope 3 GHG Emission s (tCO2e)	Total Annual GHG Emissions (t CO2-e)	Total Operation al 50yr GHG Emission s (t CO2-
10.619	50	0.85	12	606	0.14	2	123	15	729

Vegetation Clearing Onsite

Area (ha)	Carbon Stock (t/ha)	Total Carbon Stock Loss (tCO2e)
12.7	380	4572

300940 Total Energy Consumption for style

Appendix C

Landfill Greenhouse Gas Emissions Calculation Results

Appendix C Landfill Greenhouse Gas Emissions Calculation Results

Scenario 1

waste mix type	DOC	K
Food	0.15	0.185
Paper & paper	0.4	0.06
Garden & green	0.2	0.1
Wood	0.42	0.03
Textiles	0.24	0.06
Sludge	0.05	0.185
Nappies	0.24	0.06
Rubber & Leather	0.39	0.06
metal, plastics & glass	0	0

Parameters

DOC_f	0.5	
M	13	M=7 means no delay; M=13 means 6 months delay; normally 0-6
F	0.5	
MCF	1.0	
γ	0.01425	
OF	0.1	

Scenario 1

NSW waste streams	%
Municipal (M)	31%
Commercial & Industrial (C&D)	42%
Construction & Demolition (C&I)	27%
total	100%

waste mix type	M (%)	C&I (%)	C&D (%)
Food	26%	6%	0%
Paper & paper board	26%	55%	3%
Garden & Park	10%	3%	2%
Wood & wood waste	2%	14%	6%
Textiles	4%	2%	0%
Sludge	0%	3%	0%
Nappies	6%	0%	0%
Rubber & Leather	0%	1%	0%
Concrete, metal, plastic and glass	26%	16%	89%
total	100%	100%	100%

waste composition	M (%)	C&I (%)	C&D (%)	total (%)
Food	8%	3%	0%	11%
Paper & paper board	8%	23%	1%	32%
Garden & Park	3%	1%	1%	5%
Wood & wood waste	1%	6%	2%	8%
Textiles	1%	1%	0%	2%
Sludge	0%	1%	0%	1%
Nappies	2%	0%	0%	2%
Rubber & Leather	0%	0%	0%	0%
Concrete, metal, plastic and glass	8%	7%	24%	39%
total	31%	42%	27%	100%

Scenario 1

	Food						
Year	waste (t)	$DDOC_{m\ dep}$ (t)	$DDOC_{m\ decom}$ (t)	$DDOC_{m\ remain}$ (t)	$DDOC_{m\ accum\ T}$ (t)	$DDOC_{m\ decom\ T}$ (t)	$CH_{4\ generated}$ (t)
1	1,587	119.0	0.0	119.0	119.0	0.0	0.0
2	1,587	119.0	0.0	119.0	217.9	20.1	13.4
3	1,587	119.0	0.0	119.0	300.2	36.8	24.5
4	1,587	119.0	0.0	119.0	368.5	50.7	33.8
5	1,587	119.0	0.0	119.0	425.3	62.2	41.5
6	1,587	119.0	0.0	119.0	472.5	71.8	47.9
7	1,587	119.0	0.0	119.0	511.7	79.8	53.2
8	1,587	119.0	0.0	119.0	544.3	86.4	57.6
9	1,587	119.0	0.0	119.0	571.4	91.9	61.3
10	1,587	119.0	0.0	119.0	593.9	96.5	64.3
11	1,587	119.0	0.0	119.0	612.6	100.3	66.9
12	1,587	119.0	0.0	119.0	628.2	103.5	69.0
13	1,587	119.0	0.0	119.0	641.1	106.1	70.7
14	1,587	119.0	0.0	119.0	651.9	108.3	72.2
15	1,587	119.0	0.0	119.0	660.8	110.1	73.4
16	1,587	119.0	0.0	119.0	668.2	111.6	74.4
17	1,587	119.0	0.0	119.0	674.4	112.9	75.2
18	1,587	119.0	0.0	119.0	679.5	113.9	75.9
19	1,587	119.0	0.0	119.0	683.8	114.8	76.5
20	1,587	119.0	0.0	119.0	687.3	115.5	77.0
21	1,587	119.0	0.0	119.0	690.2	116.1	77.4
22	1,587	119.0	0.0	119.0	692.7	116.6	77.7
23	1,587	119.0	0.0	119.0	694.7	117.0	78.0
24	1,587	119.0	0.0	119.0	696.4	117.3	78.2
25	1,587	119.0	0.0	119.0	697.8	117.6	78.4
26	1,587	119.0	0.0	119.0	699.0	117.9	78.6
27	1,587	119.0	0.0	119.0	700.0	118.1	78.7
28	1,587	119.0	0.0	119.0	700.8	118.2	78.8
29	1,587	119.0	0.0	119.0	701.4	118.4	78.9
30	1,587	119.0	0.0	119.0	702.0	118.5	79.0
31	1,587	119.0	0.0	119.0	702.4	118.6	79.0
32	1,587	119.0	0.0	119.0	702.8	118.6	79.1
33	1,587	119.0	0.0	119.0	703.2	118.7	79.1
34	1,587	119.0	0.0	119.0	703.4	118.8	79.2
35	1,587	119.0	0.0	119.0	703.6	118.8	79.2
36	1,587	119.0	0.0	119.0	703.8	118.8	79.2
37	1,587	119.0	0.0	119.0	704.0	118.9	79.2
38	1,587	119.0	0.0	119.0	704.1	118.9	79.3
39	1,587	119.0	0.0	119.0	704.2	118.9	79.3
40	1,587	119.0	0.0	119.0	704.3	118.9	79.3
41	1,587	119.0	0.0	119.0	704.4	119.0	79.3
42	1,587	119.0	0.0	119.0	704.4	119.0	79.3
43	1,587	119.0	0.0	119.0	704.5	119.0	79.3
44	1,587	119.0	0.0	119.0	704.5	119.0	79.3
45	1,587	119.0	0.0	119.0	704.6	119.0	79.3
46	1,587	119.0	0.0	119.0	704.6	119.0	79.3
47	1,587	119.0	0.0	119.0	704.6	119.0	79.3
48	1,587	119.0	0.0	119.0	704.6	119.0	79.3
49	1,587	119.0	0.0	119.0	704.6	119.0	79.3
50	1,587	119.0	0.0	119.0	704.7	119.0	79.3
51	1,587	119.0	0.0	119.0	704.7	119.0	79.3

Scenario 1

Paper & Paper Board						
waste (t)	$DDOC_{m\,dep}$ (t)	$DDOC_{m\,decomp}$ (t)	$DDOC_{m\,remain}$ (t)	$DDOC_{m\,accum}$ T (t)	$DDOC_{m\,decomp}$ T (t)	$CH_{4\,generated}$ (t)
4,796	959.1	0.0	959.1	959.1	0.0	0.0
4,796	959.1	0.0	959.1	1,862.3	55.9	37.2
4,796	959.1	0.0	959.1	2,713.0	108.5	72.3
4,796	959.1	0.0	959.1	3,514.1	158.0	105.3
4,796	959.1	0.0	959.1	4,268.6	204.6	136.4
4,796	959.1	0.0	959.1	4,979.1	248.6	165.7
4,796	959.1	0.0	959.1	5,648.2	290.0	193.3
4,796	959.1	0.0	959.1	6,278.4	328.9	219.3
4,796	959.1	0.0	959.1	6,871.9	365.6	243.7
4,796	959.1	0.0	959.1	7,430.8	400.2	266.8
4,796	959.1	0.0	959.1	7,957.1	432.7	288.5
4,796	959.1	0.0	959.1	8,452.9	463.4	308.9
4,796	959.1	0.0	959.1	8,919.7	492.3	328.2
4,796	959.1	0.0	959.1	9,359.4	519.4	346.3
4,796	959.1	0.0	959.1	9,773.4	545.0	363.4
4,796	959.1	0.0	959.1	10,163.4	569.2	379.4
4,796	959.1	0.0	959.1	10,530.6	591.9	394.6
4,796	959.1	0.0	959.1	10,876.4	613.3	408.8
4,796	959.1	0.0	959.1	11,202.1	633.4	422.3
4,796	959.1	0.0	959.1	11,508.9	652.4	434.9
4,796	959.1	0.0	959.1	11,797.7	670.2	446.8
4,796	959.1	0.0	959.1	12,069.8	687.0	458.0
4,796	959.1	0.0	959.1	12,326.0	702.9	468.6
4,796	959.1	0.0	959.1	12,567.3	717.8	478.5
4,796	959.1	0.0	959.1	12,794.5	731.9	487.9
4,796	959.1	0.0	959.1	13,008.5	745.1	496.7
4,796	959.1	0.0	959.1	13,210.1	757.6	505.0
4,796	959.1	0.0	959.1	13,399.9	769.3	512.9
4,796	959.1	0.0	959.1	13,578.6	780.3	520.2
4,796	959.1	0.0	959.1	13,747.0	790.8	527.2
4,796	959.1	0.0	959.1	13,905.5	800.6	533.7
4,796	959.1	0.0	959.1	14,054.8	809.8	539.9
4,796	959.1	0.0	959.1	14,195.4	818.5	545.7
4,796	959.1	0.0	959.1	14,327.9	826.7	551.1
4,796	959.1	0.0	959.1	14,452.6	834.4	556.3
4,796	959.1	0.0	959.1	14,570.0	841.7	561.1
4,796	959.1	0.0	959.1	14,680.6	848.5	565.7
4,796	959.1	0.0	959.1	14,784.8	854.9	570.0
4,796	959.1	0.0	959.1	14,882.9	861.0	574.0
4,796	959.1	0.0	959.1	14,975.3	866.7	577.8
4,796	959.1	0.0	959.1	15,062.3	872.1	581.4
4,796	959.1	0.0	959.1	15,144.2	877.2	584.8
4,796	959.1	0.0	959.1	15,221.4	881.9	588.0
4,796	959.1	0.0	959.1	15,294.1	886.4	591.0
4,796	959.1	0.0	959.1	15,362.5	890.7	593.8
4,796	959.1	0.0	959.1	15,427.0	894.6	596.4
4,796	959.1	0.0	959.1	15,487.7	898.4	598.9
4,796	959.1	0.0	959.1	15,544.8	901.9	601.3
4,796	959.1	0.0	959.1	15,598.7	905.3	603.5
4,796	959.1	0.0	959.1	15,649.4	908.4	605.6
4,796	959.1	0.0	959.1	15,697.1	911.3	607.6

Scenario 1

Garden & Green						
waste (t)	$DDOC_{m\ dep}$ (t)	$DDOC_{m\ decomp}$ (t)	$DDOC_{m\ remain}$ (t)	$DDOC_{m\ accum\ T}$ (t)	$DDOC_{m\ decom\ T}$ (t)	$CH_{4\ generated}$ (t)
735	73.5	0.0	73.5	73.5	0.0	0.0
735	73.5	0.0	73.5	140.0	7.0	4.7
735	73.5	0.0	73.5	200.2	13.3	8.9
735	73.5	0.0	73.5	254.6	19.0	12.7
735	73.5	0.0	73.5	303.9	24.2	16.2
735	73.5	0.0	73.5	348.5	28.9	19.3
735	73.5	0.0	73.5	388.8	33.2	22.1
735	73.5	0.0	73.5	425.3	37.0	24.7
735	73.5	0.0	73.5	458.3	40.5	27.0
735	73.5	0.0	73.5	488.2	43.6	29.1
735	73.5	0.0	73.5	515.3	46.5	31.0
735	73.5	0.0	73.5	539.7	49.0	32.7
735	73.5	0.0	73.5	561.9	51.4	34.2
735	73.5	0.0	73.5	581.9	53.5	35.6
735	73.5	0.0	73.5	600.0	55.4	36.9
735	73.5	0.0	73.5	616.4	57.1	38.1
735	73.5	0.0	73.5	631.3	58.7	39.1
735	73.5	0.0	73.5	644.7	60.1	40.0
735	73.5	0.0	73.5	656.8	61.4	40.9
735	73.5	0.0	73.5	667.8	62.5	41.7
735	73.5	0.0	73.5	677.8	63.6	42.4
735	73.5	0.0	73.5	686.8	64.5	43.0
735	73.5	0.0	73.5	694.9	65.4	43.6
735	73.5	0.0	73.5	702.3	66.1	44.1
735	73.5	0.0	73.5	709.0	66.8	44.6
735	73.5	0.0	73.5	715.0	67.5	45.0
735	73.5	0.0	73.5	720.5	68.0	45.4
735	73.5	0.0	73.5	725.4	68.6	45.7
735	73.5	0.0	73.5	729.9	69.0	46.0
735	73.5	0.0	73.5	733.9	69.5	46.3
735	73.5	0.0	73.5	737.6	69.8	46.6
735	73.5	0.0	73.5	740.9	70.2	46.8
735	73.5	0.0	73.5	743.9	70.5	47.0
735	73.5	0.0	73.5	746.6	70.8	47.2
735	73.5	0.0	73.5	749.0	71.0	47.4
735	73.5	0.0	73.5	751.3	71.3	47.5
735	73.5	0.0	73.5	753.3	71.5	47.7
735	73.5	0.0	73.5	755.1	71.7	47.8
735	73.5	0.0	73.5	756.7	71.9	47.9
735	73.5	0.0	73.5	758.2	72.0	48.0
735	73.5	0.0	73.5	759.6	72.2	48.1
735	73.5	0.0	73.5	760.8	72.3	48.2
735	73.5	0.0	73.5	761.9	72.4	48.3
735	73.5	0.0	73.5	762.9	72.5	48.3
735	73.5	0.0	73.5	763.8	72.6	48.4
735	73.5	0.0	73.5	764.6	72.7	48.5
735	73.5	0.0	73.5	765.3	72.8	48.5
735	73.5	0.0	73.5	766.0	72.8	48.6
735	73.5	0.0	73.5	766.6	72.9	48.6
735	73.5	0.0	73.5	767.2	73.0	48.6
735	73.5	0.0	73.5	767.7	73.0	48.7

Scenario 1

Wood						
waste (t)	$DDOC_{m\,dep}$ (t)	$DDOC_{m\,decom}$ (t)	$DDOC_{m\,remain}$ (t)	$DDOC_{m\,accum\,T}$ (t)	$DDOC_{m\,decom\,T}$ (t)	CH_4 generated (t)
1,218	255.8	0.0	255.8	255.8	0.0	0.0
1,218	255.8	0.0	255.8	504.0	7.6	5.0
1,218	255.8	0.0	255.8	744.9	14.9	9.9
1,218	255.8	0.0	255.8	978.7	22.0	14.7
1,218	255.8	0.0	255.8	1,205.5	28.9	19.3
1,218	255.8	0.0	255.8	1,425.7	35.6	23.8
1,218	255.8	0.0	255.8	1,639.3	42.1	28.1
1,218	255.8	0.0	255.8	1,846.6	48.4	32.3
1,218	255.8	0.0	255.8	2,047.8	54.6	36.4
1,218	255.8	0.0	255.8	2,243.1	60.5	40.3
1,218	255.8	0.0	255.8	2,432.6	66.3	44.2
1,218	255.8	0.0	255.8	2,616.5	71.9	47.9
1,218	255.8	0.0	255.8	2,794.9	77.3	51.6
1,218	255.8	0.0	255.8	2,968.1	82.6	55.1
1,218	255.8	0.0	255.8	3,136.2	87.7	58.5
1,218	255.8	0.0	255.8	3,299.3	92.7	61.8
1,218	255.8	0.0	255.8	3,457.5	97.5	65.0
1,218	255.8	0.0	255.8	3,611.1	102.2	68.1
1,218	255.8	0.0	255.8	3,760.2	106.7	71.1
1,218	255.8	0.0	255.8	3,904.8	111.1	74.1
1,218	255.8	0.0	255.8	4,045.2	115.4	76.9
1,218	255.8	0.0	255.8	4,181.4	119.6	79.7
1,218	255.8	0.0	255.8	4,313.6	123.6	82.4
1,218	255.8	0.0	255.8	4,441.9	127.5	85.0
1,218	255.8	0.0	255.8	4,566.4	131.3	87.5
1,218	255.8	0.0	255.8	4,687.2	135.0	90.0
1,218	255.8	0.0	255.8	4,804.5	138.5	92.4
1,218	255.8	0.0	255.8	4,918.3	142.0	94.7
1,218	255.8	0.0	255.8	5,028.7	145.4	96.9
1,218	255.8	0.0	255.8	5,135.9	148.6	99.1
1,218	255.8	0.0	255.8	5,239.9	151.8	101.2
1,218	255.8	0.0	255.8	5,340.8	154.9	103.2
1,218	255.8	0.0	255.8	5,438.7	157.8	105.2
1,218	255.8	0.0	255.8	5,533.7	160.7	107.2
1,218	255.8	0.0	255.8	5,626.0	163.5	109.0
1,218	255.8	0.0	255.8	5,715.5	166.3	110.8
1,218	255.8	0.0	255.8	5,802.4	168.9	112.6
1,218	255.8	0.0	255.8	5,886.6	171.5	114.3
1,218	255.8	0.0	255.8	5,968.4	174.0	116.0
1,218	255.8	0.0	255.8	6,047.8	176.4	117.6
1,218	255.8	0.0	255.8	6,124.9	178.7	119.2
1,218	255.8	0.0	255.8	6,199.6	181.0	120.7
1,218	255.8	0.0	255.8	6,272.2	183.2	122.2
1,218	255.8	0.0	255.8	6,342.6	185.4	123.6
1,218	255.8	0.0	255.8	6,410.9	187.5	125.0
1,218	255.8	0.0	255.8	6,477.2	189.5	126.3
1,218	255.8	0.0	255.8	6,541.6	191.4	127.6
1,218	255.8	0.0	255.8	6,604.0	193.3	128.9
1,218	255.8	0.0	255.8	6,664.6	195.2	130.1
1,218	255.8	0.0	255.8	6,723.4	197.0	131.3
1,218	255.8	0.0	255.8	6,780.5	198.7	132.5

Scenario 1

Textiles						
waste (t)	$DDOC_{m\ dep}$ (t)	$DDOC_{m\ decom}$ (t)	$DDOC_{m\ remain}$ (t)	$DDOC_{m\ accum\ T}$ (t)	$DDOC_{m\ decom\ T}$ (t)	CH_4 generated (t)
312	37.4	0.0	37.4	37.4	0.0	0.0
312	37.4	0.0	37.4	72.7	2.2	1.5
312	37.4	0.0	37.4	105.9	4.2	2.8
312	37.4	0.0	37.4	137.2	6.2	4.1
312	37.4	0.0	37.4	166.6	8.0	5.3
312	37.4	0.0	37.4	194.4	9.7	6.5
312	37.4	0.0	37.4	220.5	11.3	7.5
312	37.4	0.0	37.4	245.1	12.8	8.6
312	37.4	0.0	37.4	268.3	14.3	9.5
312	37.4	0.0	37.4	290.1	15.6	10.4
312	37.4	0.0	37.4	310.6	16.9	11.3
312	37.4	0.0	37.4	330.0	18.1	12.1
312	37.4	0.0	37.4	348.2	19.2	12.8
312	37.4	0.0	37.4	365.4	20.3	13.5
312	37.4	0.0	37.4	381.5	21.3	14.2
312	37.4	0.0	37.4	396.7	22.2	14.8
312	37.4	0.0	37.4	411.1	23.1	15.4
312	37.4	0.0	37.4	424.6	23.9	16.0
312	37.4	0.0	37.4	437.3	24.7	16.5
312	37.4	0.0	37.4	449.3	25.5	17.0
312	37.4	0.0	37.4	460.5	26.2	17.4
312	37.4	0.0	37.4	471.2	26.8	17.9
312	37.4	0.0	37.4	481.2	27.4	18.3
312	37.4	0.0	37.4	490.6	28.0	18.7
312	37.4	0.0	37.4	499.5	28.6	19.0
312	37.4	0.0	37.4	507.8	29.1	19.4
312	37.4	0.0	37.4	515.7	29.6	19.7
312	37.4	0.0	37.4	523.1	30.0	20.0
312	37.4	0.0	37.4	530.1	30.5	20.3
312	37.4	0.0	37.4	536.6	30.9	20.6
312	37.4	0.0	37.4	542.8	31.3	20.8
312	37.4	0.0	37.4	548.7	31.6	21.1
312	37.4	0.0	37.4	554.1	32.0	21.3
312	37.4	0.0	37.4	559.3	32.3	21.5
312	37.4	0.0	37.4	564.2	32.6	21.7
312	37.4	0.0	37.4	568.8	32.9	21.9
312	37.4	0.0	37.4	573.1	33.1	22.1
312	37.4	0.0	37.4	577.1	33.4	22.2
312	37.4	0.0	37.4	581.0	33.6	22.4
312	37.4	0.0	37.4	584.6	33.8	22.6
312	37.4	0.0	37.4	588.0	34.0	22.7
312	37.4	0.0	37.4	591.2	34.2	22.8
312	37.4	0.0	37.4	594.2	34.4	23.0
312	37.4	0.0	37.4	597.0	34.6	23.1
312	37.4	0.0	37.4	599.7	34.8	23.2
312	37.4	0.0	37.4	602.2	34.9	23.3
312	37.4	0.0	37.4	604.6	35.1	23.4
312	37.4	0.0	37.4	606.8	35.2	23.5
312	37.4	0.0	37.4	608.9	35.3	23.6
312	37.4	0.0	37.4	610.9	35.5	23.6
312	37.4	0.0	37.4	612.8	35.6	23.7

Scenario 1

Sludges						
waste (t)	$DDOC_{m\ dep}$ (t)	$DDOC_{m\ decom}$ (t)	$DDOC_{m\ remain}$ (t)	$DDOC_{m\ accum\ T}$ (t)	$DDOC_{m\ decom\ T}$ (t)	$CH_{4\ generated}$ (t)
189	4.7	0.0	4.7	4.7	0.0	0.0
189	4.7	0.0	4.7	8.7	0.8	0.5
189	4.7	0.0	4.7	11.9	1.5	1.0
189	4.7	0.0	4.7	14.6	2.0	1.3
189	4.7	0.0	4.7	16.9	2.5	1.6
189	4.7	0.0	4.7	18.8	2.9	1.9
189	4.7	0.0	4.7	20.3	3.2	2.1
189	4.7	0.0	4.7	21.6	3.4	2.3
189	4.7	0.0	4.7	22.7	3.6	2.4
189	4.7	0.0	4.7	23.6	3.8	2.6
189	4.7	0.0	4.7	24.3	4.0	2.7
189	4.7	0.0	4.7	24.9	4.1	2.7
189	4.7	0.0	4.7	25.5	4.2	2.8
189	4.7	0.0	4.7	25.9	4.3	2.9
189	4.7	0.0	4.7	26.2	4.4	2.9
189	4.7	0.0	4.7	26.5	4.4	3.0
189	4.7	0.0	4.7	26.8	4.5	3.0
189	4.7	0.0	4.7	27.0	4.5	3.0
189	4.7	0.0	4.7	27.1	4.6	3.0
189	4.7	0.0	4.7	27.3	4.6	3.1
189	4.7	0.0	4.7	27.4	4.6	3.1
189	4.7	0.0	4.7	27.5	4.6	3.1
189	4.7	0.0	4.7	27.6	4.6	3.1
189	4.7	0.0	4.7	27.6	4.7	3.1
189	4.7	0.0	4.7	27.7	4.7	3.1
189	4.7	0.0	4.7	27.7	4.7	3.1
189	4.7	0.0	4.7	27.8	4.7	3.1
189	4.7	0.0	4.7	27.8	4.7	3.1
189	4.7	0.0	4.7	27.8	4.7	3.1
189	4.7	0.0	4.7	27.9	4.7	3.1
189	4.7	0.0	4.7	27.9	4.7	3.1
189	4.7	0.0	4.7	27.9	4.7	3.1
189	4.7	0.0	4.7	27.9	4.7	3.1
189	4.7	0.0	4.7	27.9	4.7	3.1
189	4.7	0.0	4.7	27.9	4.7	3.1
189	4.7	0.0	4.7	27.9	4.7	3.1
189	4.7	0.0	4.7	27.9	4.7	3.1
189	4.7	0.0	4.7	28.0	4.7	3.1
189	4.7	0.0	4.7	28.0	4.7	3.1
189	4.7	0.0	4.7	28.0	4.7	3.1
189	4.7	0.0	4.7	28.0	4.7	3.1
189	4.7	0.0	4.7	28.0	4.7	3.1
189	4.7	0.0	4.7	28.0	4.7	3.1
189	4.7	0.0	4.7	28.0	4.7	3.1
189	4.7	0.0	4.7	28.0	4.7	3.1
189	4.7	0.0	4.7	28.0	4.7	3.1
189	4.7	0.0	4.7	28.0	4.7	3.1
189	4.7	0.0	4.7	28.0	4.7	3.1
189	4.7	0.0	4.7	28.0	4.7	3.1
189	4.7	0.0	4.7	28.0	4.7	3.1
189	4.7	0.0	4.7	28.0	4.7	3.1

Scenario 1

Nappies						
waste (t)	$DDOC_{m\ dep}$ (t)	$DDOC_{m\ decomp}$ (t)	$DDOC_{m\ remain}$ (t)	$DDOC_{m\ accum\ T}$ (t)	$DDOC_{m\ decomp\ T}$ (t)	CH_4 generated (t)
279	33.5	0.0	33.5	33.5	0.0	0.0
279	33.5	0.0	33.5	65.0	1.9	1.3
279	33.5	0.0	33.5	94.7	3.8	2.5
279	33.5	0.0	33.5	122.7	5.5	3.7
279	33.5	0.0	33.5	149.0	7.1	4.8
279	33.5	0.0	33.5	173.8	8.7	5.8
279	33.5	0.0	33.5	197.2	10.1	6.7
279	33.5	0.0	33.5	219.2	11.5	7.7
279	33.5	0.0	33.5	239.9	12.8	8.5
279	33.5	0.0	33.5	259.4	14.0	9.3
279	33.5	0.0	33.5	277.8	15.1	10.1
279	33.5	0.0	33.5	295.1	16.2	10.8
279	33.5	0.0	33.5	311.4	17.2	11.5
279	33.5	0.0	33.5	326.7	18.1	12.1
279	33.5	0.0	33.5	341.2	19.0	12.7
279	33.5	0.0	33.5	354.8	19.9	13.2
279	33.5	0.0	33.5	367.6	20.7	13.8
279	33.5	0.0	33.5	379.7	21.4	14.3
279	33.5	0.0	33.5	391.0	22.1	14.7
279	33.5	0.0	33.5	401.7	22.8	15.2
279	33.5	0.0	33.5	411.8	23.4	15.6
279	33.5	0.0	33.5	421.3	24.0	16.0
279	33.5	0.0	33.5	430.3	24.5	16.4
279	33.5	0.0	33.5	438.7	25.1	16.7
279	33.5	0.0	33.5	446.6	25.5	17.0
279	33.5	0.0	33.5	454.1	26.0	17.3
279	33.5	0.0	33.5	461.1	26.4	17.6
279	33.5	0.0	33.5	467.8	26.9	17.9
279	33.5	0.0	33.5	474.0	27.2	18.2
279	33.5	0.0	33.5	479.9	27.6	18.4
279	33.5	0.0	33.5	485.4	27.9	18.6
279	33.5	0.0	33.5	490.6	28.3	18.8
279	33.5	0.0	33.5	495.5	28.6	19.0
279	33.5	0.0	33.5	500.2	28.9	19.2
279	33.5	0.0	33.5	504.5	29.1	19.4
279	33.5	0.0	33.5	508.6	29.4	19.6
279	33.5	0.0	33.5	512.5	29.6	19.7
279	33.5	0.0	33.5	516.1	29.8	19.9
279	33.5	0.0	33.5	519.5	30.1	20.0
279	33.5	0.0	33.5	522.8	30.3	20.2
279	33.5	0.0	33.5	525.8	30.4	20.3
279	33.5	0.0	33.5	528.7	30.6	20.4
279	33.5	0.0	33.5	531.3	30.8	20.5
279	33.5	0.0	33.5	533.9	30.9	20.6
279	33.5	0.0	33.5	536.3	31.1	20.7
279	33.5	0.0	33.5	538.5	31.2	20.8
279	33.5	0.0	33.5	540.6	31.4	20.9
279	33.5	0.0	33.5	542.6	31.5	21.0
279	33.5	0.0	33.5	544.5	31.6	21.1
279	33.5	0.0	33.5	546.3	31.7	21.1
279	33.5	0.0	33.5	548.0	31.8	21.2

Scenario 1

Rubber						
waste (kt)	$DDOC_{m\ dep}$ (t)	$DDOC_{m\ decomp}$ (t)	$DDOC_{m\ remain}$ (t)	$DDOC_{m\ accum\ T}$ (t)	$DDOC_{m\ decomp\ T}$ (t)	CH_4 generated (t)
63	12.3	0.0	12.3	12.3	0.0	0.0
63	12.3	0.0	12.3	23.9	0.7	0.5
63	12.3	0.0	12.3	34.8	1.4	0.9
63	12.3	0.0	12.3	45.0	2.0	1.3
63	12.3	0.0	12.3	54.7	2.6	1.7
63	12.3	0.0	12.3	63.8	3.2	2.1
63	12.3	0.0	12.3	72.3	3.7	2.5
63	12.3	0.0	12.3	80.4	4.2	2.8
63	12.3	0.0	12.3	88.0	4.7	3.1
63	12.3	0.0	12.3	95.2	5.1	3.4
63	12.3	0.0	12.3	101.9	5.5	3.7
63	12.3	0.0	12.3	108.3	5.9	4.0
63	12.3	0.0	12.3	114.3	6.3	4.2
63	12.3	0.0	12.3	119.9	6.7	4.4
63	12.3	0.0	12.3	125.2	7.0	4.7
63	12.3	0.0	12.3	130.2	7.3	4.9
63	12.3	0.0	12.3	134.9	7.6	5.1
63	12.3	0.0	12.3	139.3	7.9	5.2
63	12.3	0.0	12.3	143.5	8.1	5.4
63	12.3	0.0	12.3	147.4	8.4	5.6
63	12.3	0.0	12.3	151.1	8.6	5.7
63	12.3	0.0	12.3	154.6	8.8	5.9
63	12.3	0.0	12.3	157.9	9.0	6.0
63	12.3	0.0	12.3	161.0	9.2	6.1
63	12.3	0.0	12.3	163.9	9.4	6.2
63	12.3	0.0	12.3	166.6	9.5	6.4
63	12.3	0.0	12.3	169.2	9.7	6.5
63	12.3	0.0	12.3	171.6	9.9	6.6
63	12.3	0.0	12.3	173.9	10.0	6.7
63	12.3	0.0	12.3	176.1	10.1	6.8
63	12.3	0.0	12.3	178.1	10.3	6.8
63	12.3	0.0	12.3	180.0	10.4	6.9
63	12.3	0.0	12.3	181.8	10.5	7.0
63	12.3	0.0	12.3	183.5	10.6	7.1
63	12.3	0.0	12.3	185.1	10.7	7.1
63	12.3	0.0	12.3	186.6	10.8	7.2
63	12.3	0.0	12.3	188.0	10.9	7.2
63	12.3	0.0	12.3	189.4	11.0	7.3
63	12.3	0.0	12.3	190.6	11.0	7.4
63	12.3	0.0	12.3	191.8	11.1	7.4
63	12.3	0.0	12.3	192.9	11.2	7.4
63	12.3	0.0	12.3	194.0	11.2	7.5
63	12.3	0.0	12.3	195.0	11.3	7.5
63	12.3	0.0	12.3	195.9	11.4	7.6
63	12.3	0.0	12.3	196.8	11.4	7.6
63	12.3	0.0	12.3	197.6	11.5	7.6
63	12.3	0.0	12.3	198.4	11.5	7.7
63	12.3	0.0	12.3	199.1	11.6	7.7
63	12.3	0.0	12.3	199.8	11.6	7.7
63	12.3	0.0	12.3	200.5	11.6	7.8
63	12.3	0.0	12.3	201.1	11.7	7.8

Scenario 1

Total CH_4 Generated (t)	Methan recovered			CH_4* (t)	E_j	E_j (t CO_2-e)
	Q_{cap} (m^3)	Q_{flared} (m^3)	Q_{tr} (m^3)			
0.0	0	0	0	0.0	0.0	0.0
64.1	0	0	0	64.1	57.7	1211.5
122.9	0	0	0	122.9	110.6	2322.9
177.0	0	0	0	177.0	159.3	3344.9
226.8	0	0	0	226.8	204.2	4287.3
272.9	0	0	0	272.9	245.6	5158.1
315.6	0	0	0	315.6	284.0	5964.6
355.2	0	0	0	355.2	319.7	6712.9
392.0	0	0	0	392.0	352.8	7408.5
426.3	0	0	0	426.3	383.6	8056.2
458.2	0	0	0	458.2	412.4	8660.3
488.1	0	0	0	488.1	439.3	9224.4
516.0	0	0	0	516.0	464.4	9751.9
542.1	0	0	0	542.1	487.9	10245.8
566.6	0	0	0	566.6	509.9	10708.7
589.6	0	0	0	589.6	530.6	11142.9
611.1	0	0	0	611.1	550.0	11550.7
631.4	0	0	0	631.4	568.3	11933.9
650.5	0	0	0	650.5	585.4	12294.3
668.4	0	0	0	668.4	601.6	12633.5
685.3	0	0	0	685.3	616.8	12953.0
701.3	0	0	0	701.3	631.1	13254.1
716.3	0	0	0	716.3	644.7	13538.0
730.5	0	0	0	730.5	657.4	13805.8
743.8	0	0	0	743.8	669.5	14058.5
756.5	0	0	0	756.5	680.8	14297.2
768.4	0	0	0	768.4	691.6	14522.6
779.7	0	0	0	779.7	701.7	14735.7
790.3	0	0	0	790.3	711.3	14937.1
800.4	0	0	0	800.4	720.4	15127.6
809.9	0	0	0	809.9	728.9	15307.9
819.0	0	0	0	819.0	737.1	15478.4
827.5	0	0	0	827.5	744.8	15639.9
835.6	0	0	0	835.6	752.0	15792.8
843.3	0	0	0	843.3	758.9	15937.6
850.5	0	0	0	850.5	765.5	16074.8
857.4	0	0	0	857.4	771.7	16204.9
863.9	0	0	0	863.9	777.5	16328.2
870.1	0	0	0	870.1	783.1	16445.1
876.0	0	0	0	876.0	788.4	16556.0
881.5	0	0	0	881.5	793.4	16661.2
886.8	0	0	0	886.8	798.1	16761.1
891.8	0	0	0	891.8	802.7	16855.8
896.6	0	0	0	896.6	806.9	16945.8
901.1	0	0	0	901.1	811.0	17031.3
905.4	0	0	0	905.4	814.9	17112.5
909.5	0	0	0	909.5	818.6	17189.6
913.4	0	0	0	913.4	822.0	17262.9
917.1	0	0	0	917.1	825.4	17332.6
920.6	0	0	0	920.6	828.5	17398.8
923.9	0	0	0	923.9	831.5	17461.9
						641,622 Total

Scenario 2

First 10 Years of simulation

NSW waste streams	%
Municipal (M)	31%
Commercial & Industrial (C&D)	42%
Construction & Demolition (C&I)	27%
total	100%

Notes on Calculations

Purple cells

Assume 85% of waste is diverted i.e. new value is15% of original

Green cells

Adjusted % for each waste type, calculated as per formula on p.262 of 2009 technical guidelines

Remaining 40 years of simulation

NSW waste streams	%
Municipal (M)	31%
Commercial & Industrial (C&D)	42%
Construction & Demolition (C&I)	27%
total	100%

waste mix type	M (%)	C&I (%)	C&D (%)
Food	35.0%	21.5%	0.0%
Paper & paper board	13.0%	15.5%	3.0%
Garden & Park	16.5%	4.0%	2.0%
Wood & wood waste	1.0%	12.5%	5.0%
Textiles	1.5%	4.0%	0.0%
Sludge	0.0%	1.5%	0.0%
Nappies	4.0%	0.0%	0.0%
Rubber & Leather	1.0%	3.5%	0.0%
Concrete, metal, plastic and glass	28.0%	37.5%	89.0%
total	100%	100%	100%

waste composition	M (%)	C&I (%)	C&D (%)	total (%)
Food	13%	9%	0%	20%
Paper & paper board	4%	7%	1%	11%
Garden & Park	5%	2%	1%	7%
Wood & wood waste	0%	5%	2%	7%
Textiles	0%	2%	0%	2%
Sludge	0%	1%	0%	1%
Nappies	1%	0%	0%	1%
Rubber & Leather	0%	1%	0%	2%
Concrete, metal, plastic and glass	9%	16%	24%	48%
total	31%	42%	27%	100%

waste mix type	M (%)	C&I (%)	C&D (%)
Food	5.3%	3.2%	0.0%
Paper & paper board	2.0%	2.3%	0.5%
Garden & Park	2.5%	0.6%	0.3%
Wood & wood waste	0.2%	1.9%	0.9%
Textiles	0.4%	0.6%	0.0%
Sludge	0.0%	0.0%	0.0%
Nappies	0.6%	0.0%	0.0%
Rubber & Leather	0.4%	0.5%	0.0%
Concrete, metal, plastic and glass	82.2%	74.2%	98.4%
total	100%	100%	100%

waste composition	M (%)	C&I (%)	C&D (%)	total (%)
Food	2%	1%	0%	3%
Paper & paper board	1%	1%	0%	2%
Garden & Park	1%	0%	0%	1%
Wood & wood waste	0%	1%	0%	1%
Textiles	1%	3%	0%	5%
Sludge	0%	1%	0%	1%
Nappies	0%	0%	0%	0%
Rubber & Leather	1%	3%	0%	4%
Concrete, metal, plastic and glass	25%	31%	27%	83%
total	31%	42%	27%	100%

Scenario 2

waste mix type	DOC	K
Food	0.15	0.185
Paper & paper	0.4	0.06
Garden & green	0.2	0.1
Wood	0.42	0.03
Textiles	0.24	0.06
Sludge	0.05	0.185
Nappies	0.24	0.06
Rubber & Leather	0.39	0.06
Concrete, metal, plastics & glass	0	0

Parameters

DOC_i	0.5	
M	13	M=7 means no delay; M=13 means 6 months delay; normally 0-6
F	0.5	
MCF	1.0	
γ	0.0142464	
OF	0.1	

Scenario 2

	Food						
Year	waste (t)	$DDOC_{m\ dep}$ (t)	$DDOC_{m\ decom}$ (t)	$DDOC_{m\ remain}$ (t)	$DDOC_{m\ accum\ T}$ (t)	$DDOC_{m\ decom\ T}$ (t)	$CH_{4\ generated}$ (t)
1	2,982	223.7	0.0	223.7	223.7	0.0	0.0
2	2,982	223.7	0.0	223.7	409.5	37.8	25.2
3	2,982	223.7	0.0	223.7	564.0	69.2	46.1
4	2,982	223.7	0.0	223.7	692.4	95.3	63.5
5	2,982	223.7	0.0	223.7	799.1	116.9	78.0
6	2,982	223.7	0.0	223.7	887.8	135.0	90.0
7	2,982	223.7	0.0	223.7	961.5	149.9	100.0
8	2,982	223.7	0.0	223.7	1,022.8	162.4	108.3
9	2,982	223.7	0.0	223.7	1,073.7	172.7	115.2
10	2,982	223.7	0.0	223.7	1,116.0	181.3	120.9
11	447	33.5	0.0	33.5	961.0	188.5	125.7
12	447	33.5	0.0	33.5	832.3	162.3	108.2
13	447	33.5	0.0	33.5	725.3	140.6	93.7
14	447	33.5	0.0	33.5	636.3	122.5	81.7
15	447	33.5	0.0	33.5	562.4	107.5	71.6
16	447	33.5	0.0	33.5	500.9	95.0	63.3
17	447	33.5	0.0	33.5	449.9	84.6	56.4
18	447	33.5	0.0	33.5	407.5	76.0	50.7
19	447	33.5	0.0	33.5	372.2	68.8	45.9
20	447	33.5	0.0	33.5	342.9	62.9	41.9
21	447	33.5	0.0	33.5	318.5	57.9	38.6
22	447	33.5	0.0	33.5	298.3	53.8	35.9
23	447	33.5	0.0	33.5	281.4	50.4	33.6
24	447	33.5	0.0	33.5	267.4	47.5	31.7
25	447	33.5	0.0	33.5	255.8	45.2	30.1
26	447	33.5	0.0	33.5	246.2	43.2	28.8
27	447	33.5	0.0	33.5	238.1	41.6	27.7
28	447	33.5	0.0	33.5	231.5	40.2	26.8
29	447	33.5	0.0	33.5	225.9	39.1	26.1
30	447	33.5	0.0	33.5	221.3	38.2	25.4
31	447	33.5	0.0	33.5	217.5	37.4	24.9
32	447	33.5	0.0	33.5	214.3	36.7	24.5
33	447	33.5	0.0	33.5	211.6	36.2	24.1
34	447	33.5	0.0	33.5	209.4	35.7	23.8
35	447	33.5	0.0	33.5	207.6	35.4	23.6
36	447	33.5	0.0	33.5	206.1	35.1	23.4
37	447	33.5	0.0	33.5	204.8	34.8	23.2
38	447	33.5	0.0	33.5	203.8	34.6	23.1
39	447	33.5	0.0	33.5	202.9	34.4	22.9
40	447	33.5	0.0	33.5	202.2	34.3	22.8
41	447	33.5	0.0	33.5	201.6	34.1	22.8
42	447	33.5	0.0	33.5	201.1	34.0	22.7
43	447	33.5	0.0	33.5	200.7	34.0	22.6
44	447	33.5	0.0	33.5	200.3	33.9	22.6
45	447	33.5	0.0	33.5	200.0	33.8	22.6
46	447	33.5	0.0	33.5	199.8	33.8	22.5
47	447	33.5	0.0	33.5	199.6	33.7	22.5
48	447	33.5	0.0	33.5	199.4	33.7	22.5
49	447	33.5	0.0	33.5	199.3	33.7	22.5
50	447	33.5	0.0	33.5	199.2	33.7	22.4
51	447	33.5	0.0	33.5	199.1	33.6	22.4

Scenario 2

Paper & Paper Board						
waste (t)	$DDOC_{m\ decomp}$ (t)	$DDOC_{m\ decomp}$ (t)	$DDOC_{m\ remain}$ (t)	$DDOC_{m\ accum\ T}$ (t)	$DDOC_{m\ decom\ T}$ (t)	$CH_{4\ generated}$ (t)
1,703	340.5	0.0	340.5	340.5	0.0	0.0
1,703	340.5	0.0	340.5	661.2	19.8	13.2
1,703	340.5	0.0	340.5	963.2	38.5	25.7
1,703	340.5	0.0	340.5	1,247.6	56.1	37.4
1,703	340.5	0.0	340.5	1,515.4	72.7	48.4
1,703	340.5	0.0	340.5	1,767.7	88.3	58.8
1,703	340.5	0.0	340.5	2,005.2	102.9	68.6
1,703	340.5	0.0	340.5	2,229.0	116.8	77.9
1,703	340.5	0.0	340.5	2,439.7	129.8	86.5
1,703	340.5	0.0	340.5	2,638.1	142.1	94.7
255	51.1	0.0	51.1	2,535.5	153.6	102.4
255	51.1	0.0	51.1	2,438.9	147.7	98.4
255	51.1	0.0	51.1	2,348.0	142.0	94.7
255	51.1	0.0	51.1	2,262.3	136.7	91.2
255	51.1	0.0	51.1	2,181.6	131.7	87.8
255	51.1	0.0	51.1	2,105.7	127.0	84.7
255	51.1	0.0	51.1	2,034.1	122.6	81.7
255	51.1	0.0	51.1	1,966.7	118.5	79.0
255	51.1	0.0	51.1	1,903.3	114.5	76.4
255	51.1	0.0	51.1	1,843.5	110.8	73.9
255	51.1	0.0	51.1	1,787.2	107.4	71.6
255	51.1	0.0	51.1	1,734.2	104.1	69.4
255	51.1	0.0	51.1	1,684.3	101.0	67.3
255	51.1	0.0	51.1	1,637.3	98.1	65.4
255	51.1	0.0	51.1	1,593.0	95.3	63.6
255	51.1	0.0	51.1	1,551.3	92.8	61.8
255	51.1	0.0	51.1	1,512.1	90.3	60.2
255	51.1	0.0	51.1	1,475.1	88.1	58.7
255	51.1	0.0	51.1	1,440.3	85.9	57.3
255	51.1	0.0	51.1	1,407.5	83.9	55.9
255	51.1	0.0	51.1	1,376.6	82.0	54.6
255	51.1	0.0	51.1	1,347.5	80.2	53.4
255	51.1	0.0	51.1	1,320.1	78.5	52.3
255	51.1	0.0	51.1	1,294.3	76.9	51.3
255	51.1	0.0	51.1	1,270.0	75.4	50.2
255	51.1	0.0	51.1	1,247.1	74.0	49.3
255	51.1	0.0	51.1	1,225.5	72.6	48.4
255	51.1	0.0	51.1	1,205.3	71.4	47.6
255	51.1	0.0	51.1	1,186.1	70.2	46.8
255	51.1	0.0	51.1	1,168.1	69.1	46.1
255	51.1	0.0	51.1	1,151.2	68.0	45.4
255	51.1	0.0	51.1	1,135.2	67.0	44.7
255	51.1	0.0	51.1	1,120.2	66.1	44.1
255	51.1	0.0	51.1	1,106.0	65.2	43.5
255	51.1	0.0	51.1	1,092.7	64.4	42.9
255	51.1	0.0	51.1	1,080.1	63.6	42.4
255	51.1	0.0	51.1	1,068.3	62.9	41.9
255	51.1	0.0	51.1	1,057.2	62.2	41.5
255	51.1	0.0	51.1	1,046.7	61.6	41.0
255	51.1	0.0	51.1	1,036.8	61.0	40.6
255	51.1	0.0	51.1	1,027.5	60.4	40.3

Scenario 2

Garden & Green						
waste (t)	$DDOC_{m\ dep}$ (t)	$DDOC_{m\ decom}$ (t)	$DDOC_{m\ remain}$ (t)	$DDOC_{m\ accum\ T}$ (t)	$DDOC_{m\ decom\ T}$ (t)	$CH_{4\ generated}$ (t)
1,100	110.0	0.0	110.0	110.0	0.0	0.0
1,100	110.0	0.0	110.0	209.6	10.5	7.0
1,100	110.0	0.0	110.0	299.7	19.9	13.3
1,100	110.0	0.0	110.0	381.2	28.5	19.0
1,100	110.0	0.0	110.0	454.9	36.3	24.2
1,100	110.0	0.0	110.0	521.7	43.3	28.9
1,100	110.0	0.0	110.0	582.0	49.6	33.1
1,100	110.0	0.0	110.0	636.7	55.4	36.9
1,100	110.0	0.0	110.0	686.1	60.6	40.4
1,100	110.0	0.0	110.0	730.8	65.3	43.5
165	16.5	0.0	16.5	677.8	69.5	46.4
165	16.5	0.0	16.5	629.8	64.5	43.0
165	16.5	0.0	16.5	586.4	59.9	40.0
165	16.5	0.0	16.5	547.1	55.8	37.2
165	16.5	0.0	16.5	511.5	52.1	34.7
165	16.5	0.0	16.5	479.3	48.7	32.5
165	16.5	0.0	16.5	450.2	45.6	30.4
165	16.5	0.0	16.5	423.9	42.8	28.6
165	16.5	0.0	16.5	400.1	40.3	26.9
165	16.5	0.0	16.5	378.5	38.1	25.4
165	16.5	0.0	16.5	359.0	36.0	24.0
165	16.5	0.0	16.5	341.3	34.2	22.8
165	16.5	0.0	16.5	325.3	32.5	21.7
165	16.5	0.0	16.5	310.9	31.0	20.6
165	16.5	0.0	16.5	297.8	29.6	19.7
165	16.5	0.0	16.5	286.0	28.3	18.9
165	16.5	0.0	16.5	275.3	27.2	18.1
165	16.5	0.0	16.5	265.6	26.2	17.5
165	16.5	0.0	16.5	256.8	25.3	16.8
165	16.5	0.0	16.5	248.9	24.4	16.3
165	16.5	0.0	16.5	241.7	23.7	15.8
165	16.5	0.0	16.5	235.2	23.0	15.3
165	16.5	0.0	16.5	229.3	22.4	14.9
165	16.5	0.0	16.5	224.0	21.8	14.5
165	16.5	0.0	16.5	219.2	21.3	14.2
165	16.5	0.0	16.5	214.8	20.9	13.9
165	16.5	0.0	16.5	210.9	20.4	13.6
165	16.5	0.0	16.5	207.3	20.1	13.4
165	16.5	0.0	16.5	204.1	19.7	13.2
165	16.5	0.0	16.5	201.2	19.4	12.9
165	16.5	0.0	16.5	198.5	19.1	12.8
165	16.5	0.0	16.5	196.1	18.9	12.6
165	16.5	0.0	16.5	194.0	18.7	12.4
165	16.5	0.0	16.5	192.0	18.5	12.3
165	16.5	0.0	16.5	190.3	18.3	12.2
165	16.5	0.0	16.5	188.7	18.1	12.1
165	16.5	0.0	16.5	187.2	18.0	12.0
165	16.5	0.0	16.5	185.9	17.8	11.9
165	16.5	0.0	16.5	184.7	17.7	11.8
165	16.5	0.0	16.5	183.6	17.6	11.7
165	16.5	0.0	16.5	182.7	17.5	11.7

Scenario 2

Wood						
waste (t)	$DDOC_{m\ decp}$ (t)	$DDOC_{m\ decomp}$ (t)	$DDOC_{m\ remain}$ (t)	$DDOC_{m\ accum\ T}$ (t)	$DDOC_{m\ decom\ T}$ (t)	CH_4 generated (t)
1,077	226.2	0.0	226.2	226.2	0.0	0.0
1,077	226.2	0.0	226.2	445.7	6.7	4.5
1,077	226.2	0.0	226.2	658.7	13.2	8.8
1,077	226.2	0.0	226.2	865.4	19.5	13.0
1,077	226.2	0.0	226.2	1,066.0	25.6	17.1
1,077	226.2	0.0	226.2	1,260.6	31.5	21.0
1,077	226.2	0.0	226.2	1,449.5	37.3	24.8
1,077	226.2	0.0	226.2	1,632.9	42.8	28.6
1,077	226.2	0.0	226.2	1,810.8	48.3	32.2
1,077	226.2	0.0	226.2	1,983.4	53.5	35.7
162	33.9	0.0	33.9	1,958.7	58.6	39.1
162	33.9	0.0	33.9	1,934.8	57.9	38.6
162	33.9	0.0	33.9	1,911.5	57.2	38.1
162	33.9	0.0	33.9	1,888.9	56.5	37.7
162	33.9	0.0	33.9	1,867.0	55.8	37.2
162	33.9	0.0	33.9	1,845.8	55.2	36.8
162	33.9	0.0	33.9	1,825.2	54.6	36.4
162	33.9	0.0	33.9	1,805.1	53.9	36.0
162	33.9	0.0	33.9	1,785.7	53.4	35.6
162	33.9	0.0	33.9	1,766.9	52.8	35.2
162	33.9	0.0	33.9	1,748.6	52.2	34.8
162	33.9	0.0	33.9	1,730.8	51.7	34.5
162	33.9	0.0	33.9	1,713.6	51.2	34.1
162	33.9	0.0	33.9	1,696.9	50.6	33.8
162	33.9	0.0	33.9	1,680.7	50.2	33.4
162	33.9	0.0	33.9	1,664.9	49.7	33.1
162	33.9	0.0	33.9	1,649.6	49.2	32.8
162	33.9	0.0	33.9	1,634.8	48.8	32.5
162	33.9	0.0	33.9	1,620.4	48.3	32.2
162	33.9	0.0	33.9	1,606.4	47.9	31.9
162	33.9	0.0	33.9	1,592.9	47.5	31.7
162	33.9	0.0	33.9	1,579.7	47.1	31.4
162	33.9	0.0	33.9	1,567.0	46.7	31.1
162	33.9	0.0	33.9	1,554.6	46.3	30.9
162	33.9	0.0	33.9	1,542.6	45.9	30.6
162	33.9	0.0	33.9	1,530.9	45.6	30.4
162	33.9	0.0	33.9	1,519.6	45.2	30.2
162	33.9	0.0	33.9	1,508.6	44.9	29.9
162	33.9	0.0	33.9	1,497.9	44.6	29.7
162	33.9	0.0	33.9	1,487.6	44.3	29.5
162	33.9	0.0	33.9	1,477.6	44.0	29.3
162	33.9	0.0	33.9	1,467.8	43.7	29.1
162	33.9	0.0	33.9	1,458.4	43.4	28.9
162	33.9	0.0	33.9	1,449.2	43.1	28.7
162	33.9	0.0	33.9	1,440.3	42.8	28.6
162	33.9	0.0	33.9	1,431.6	42.6	28.4
162	33.9	0.0	33.9	1,423.3	42.3	28.2
162	33.9	0.0	33.9	1,415.1	42.1	28.0
162	33.9	0.0	33.9	1,407.2	41.8	27.9
162	33.9	0.0	33.9	1,399.6	41.6	27.7
162	33.9	0.0	33.9	1,392.1	41.4	27.6

Scenario 2

Textiles						
waste (t)	$DDOC_{m\ dep}$ (t)	$DDOC_{m\ decom}$ (t)	$DDOC_{m\ remain}$ (t)	$DDOC_{m\ accum\ T}$ (t)	$DDOC_{m\ decom\ T}$ (t)	CH_4 generated (t)
322	38.6	0.0	38.6	38.6	0.0	0.0
322	38.6	0.0	38.6	75.0	2.2	1.5
322	38.6	0.0	38.6	109.2	4.4	2.9
322	38.6	0.0	38.6	141.5	6.4	4.2
322	38.6	0.0	38.6	171.8	8.2	5.5
322	38.6	0.0	38.6	200.4	10.0	6.7
322	38.6	0.0	38.6	227.4	11.7	7.8
322	38.6	0.0	38.6	252.7	13.2	8.8
322	38.6	0.0	38.6	276.6	14.7	9.8
322	38.6	0.0	38.6	299.1	16.1	10.7
703	84.4	0.0	84.4	366.1	17.4	11.6
703	84.4	0.0	84.4	429.2	21.3	14.2
703	84.4	0.0	84.4	488.6	25.0	16.7
703	84.4	0.0	84.4	544.5	28.5	19.0
703	84.4	0.0	84.4	597.2	31.7	21.1
703	84.4	0.0	84.4	646.8	34.8	23.2
703	84.4	0.0	84.4	693.6	37.7	25.1
703	84.4	0.0	84.4	737.6	40.4	26.9
703	84.4	0.0	84.4	779.0	43.0	28.6
703	84.4	0.0	84.4	818.0	45.4	30.2
703	84.4	0.0	84.4	854.8	47.6	31.8
703	84.4	0.0	84.4	889.4	49.8	33.2
703	84.4	0.0	84.4	922.0	51.8	34.5
703	84.4	0.0	84.4	952.7	53.7	35.8
703	84.4	0.0	84.4	981.6	55.5	37.0
703	84.4	0.0	84.4	1,008.9	57.2	38.1
703	84.4	0.0	84.4	1,034.5	58.8	39.2
703	84.4	0.0	84.4	1,058.6	60.2	40.2
703	84.4	0.0	84.4	1,081.4	61.7	41.1
703	84.4	0.0	84.4	1,102.8	63.0	42.0
703	84.4	0.0	84.4	1,123.0	64.2	42.8
703	84.4	0.0	84.4	1,142.0	65.4	43.6
703	84.4	0.0	84.4	1,159.9	66.5	44.3
703	84.4	0.0	84.4	1,176.7	67.5	45.0
703	84.4	0.0	84.4	1,192.6	68.5	45.7
703	84.4	0.0	84.4	1,207.5	69.5	46.3
703	84.4	0.0	84.4	1,221.6	70.3	46.9
703	84.4	0.0	84.4	1,234.9	71.1	47.4
703	84.4	0.0	84.4	1,247.3	71.9	47.9
703	84.4	0.0	84.4	1,259.1	72.6	48.4
703	84.4	0.0	84.4	1,270.2	73.3	48.9
703	84.4	0.0	84.4	1,280.6	74.0	49.3
703	84.4	0.0	84.4	1,290.4	74.6	49.7
703	84.4	0.0	84.4	1,299.7	75.1	50.1
703	84.4	0.0	84.4	1,308.4	75.7	50.5
703	84.4	0.0	84.4	1,316.6	76.2	50.8
703	84.4	0.0	84.4	1,324.3	76.7	51.1
703	84.4	0.0	84.4	1,331.6	77.1	51.4
703	84.4	0.0	84.4	1,338.4	77.5	51.7
703	84.4	0.0	84.4	1,344.9	77.9	52.0
703	84.4	0.0	84.4	1,350.9	78.3	52.2

Scenario 2

Sludges						
waste (t)	$DDOC_{m\ dep}$ (t)	$DDOC_{m\ decom}$ (t)	$DDOC_{m\ remain}$ (t)	$DDOC_{m\ accum\ T}$ (t)	$DDOC_{m\ decom\ T}$ (t)	$CH_{4\ generated}$ (t)
95	2.4	0.0	2.4	2.4	0.0	0.0
95	2.4	0.0	2.4	4.3	0.4	0.3
95	2.4	0.0	2.4	6.0	0.7	0.5
95	2.4	0.0	2.4	7.3	1.0	0.7
95	2.4	0.0	2.4	8.4	1.2	0.8
95	2.4	0.0	2.4	9.4	1.4	1.0
95	2.4	0.0	2.4	10.2	1.6	1.1
95	2.4	0.0	2.4	10.8	1.7	1.1
95	2.4	0.0	2.4	11.3	1.8	1.2
95	2.4	0.0	2.4	11.8	1.9	1.3
187	4.7	0.0	4.7	14.5	2.0	1.3
187	4.7	0.0	4.7	16.7	2.4	1.6
187	4.7	0.0	4.7	18.6	2.8	1.9
187	4.7	0.0	4.7	20.1	3.1	2.1
187	4.7	0.0	4.7	21.4	3.4	2.3
187	4.7	0.0	4.7	22.4	3.6	2.4
187	4.7	0.0	4.7	23.3	3.8	2.5
187	4.7	0.0	4.7	24.1	3.9	2.6
187	4.7	0.0	4.7	24.7	4.1	2.7
187	4.7	0.0	4.7	25.2	4.2	2.8
187	4.7	0.0	4.7	25.6	4.3	2.8
187	4.7	0.0	4.7	25.9	4.3	2.9
187	4.7	0.0	4.7	26.2	4.4	2.9
187	4.7	0.0	4.7	26.5	4.4	3.0
187	4.7	0.0	4.7	26.7	4.5	3.0
187	4.7	0.0	4.7	26.8	4.5	3.0
187	4.7	0.0	4.7	27.0	4.5	3.0
187	4.7	0.0	4.7	27.1	4.6	3.0
187	4.7	0.0	4.7	27.2	4.6	3.1
187	4.7	0.0	4.7	27.3	4.6	3.1
187	4.7	0.0	4.7	27.3	4.6	3.1
187	4.7	0.0	4.7	27.4	4.6	3.1
187	4.7	0.0	4.7	27.4	4.6	3.1
187	4.7	0.0	4.7	27.5	4.6	3.1
187	4.7	0.0	4.7	27.5	4.6	3.1
187	4.7	0.0	4.7	27.5	4.6	3.1
187	4.7	0.0	4.7	27.6	4.7	3.1
187	4.7	0.0	4.7	27.6	4.7	3.1
187	4.7	0.0	4.7	27.6	4.7	3.1
187	4.7	0.0	4.7	27.6	4.7	3.1
187	4.7	0.0	4.7	27.6	4.7	3.1
187	4.7	0.0	4.7	27.6	4.7	3.1
187	4.7	0.0	4.7	27.6	4.7	3.1
187	4.7	0.0	4.7	27.6	4.7	3.1
187	4.7	0.0	4.7	27.6	4.7	3.1
187	4.7	0.0	4.7	27.6	4.7	3.1
187	4.7	0.0	4.7	27.7	4.7	3.1
187	4.7	0.0	4.7	27.7	4.7	3.1
187	4.7	0.0	4.7	27.7	4.7	3.1
187	4.7	0.0	4.7	27.7	4.7	3.1
187	4.7	0.0	4.7	27.7	4.7	3.1

Scenario 2

Nappies						
waste (t)	$DDOC_{m\ dep}$ (t)	$DDOC_{m\ decom}$ (t)	$DDOC_{m\ remain}$ (t)	$DDOC_{m\ accum\ T}$ (t)	$DDOC_{m\ decom\ T}$ (t)	$CH_{4\ generated}$ (t)
186	22.3	0.0	22.3	22.3	0.0	0.0
186	22.3	0.0	22.3	43.3	1.3	0.9
186	22.3	0.0	22.3	63.1	2.5	1.7
186	22.3	0.0	22.3	81.8	3.7	2.5
186	22.3	0.0	22.3	99.3	4.8	3.2
186	22.3	0.0	22.3	115.9	5.8	3.9
186	22.3	0.0	22.3	131.4	6.7	4.5
186	22.3	0.0	22.3	146.1	7.7	5.1
186	22.3	0.0	22.3	159.9	8.5	5.7
186	22.3	0.0	22.3	172.9	9.3	6.2
28	3.3	0.0	3.3	166.2	10.1	6.7
28	3.3	0.0	3.3	159.9	9.7	6.5
28	3.3	0.0	3.3	153.9	9.3	6.2
28	3.3	0.0	3.3	148.3	9.0	6.0
28	3.3	0.0	3.3	143.0	8.6	5.8
28	3.3	0.0	3.3	138.0	8.3	5.6
28	3.3	0.0	3.3	133.3	8.0	5.4
28	3.3	0.0	3.3	128.9	7.8	5.2
28	3.3	0.0	3.3	124.8	7.5	5.0
28	3.3	0.0	3.3	120.8	7.3	4.8
28	3.3	0.0	3.3	117.2	7.0	4.7
28	3.3	0.0	3.3	113.7	6.8	4.5
28	3.3	0.0	3.3	110.4	6.6	4.4
28	3.3	0.0	3.3	107.3	6.4	4.3
28	3.3	0.0	3.3	104.4	6.3	4.2
28	3.3	0.0	3.3	101.7	6.1	4.1
28	3.3	0.0	3.3	99.1	5.9	3.9
28	3.3	0.0	3.3	96.7	5.8	3.8
28	3.3	0.0	3.3	94.4	5.6	3.8
28	3.3	0.0	3.3	92.3	5.5	3.7
28	3.3	0.0	3.3	90.2	5.4	3.6
28	3.3	0.0	3.3	88.3	5.3	3.5
28	3.3	0.0	3.3	86.5	5.1	3.4
28	3.3	0.0	3.3	84.8	5.0	3.4
28	3.3	0.0	3.3	83.2	4.9	3.3
28	3.3	0.0	3.3	81.7	4.8	3.2
28	3.3	0.0	3.3	80.3	4.8	3.2
28	3.3	0.0	3.3	79.0	4.7	3.1
28	3.3	0.0	3.3	77.8	4.6	3.1
28	3.3	0.0	3.3	76.6	4.5	3.0
28	3.3	0.0	3.3	75.5	4.5	3.0
28	3.3	0.0	3.3	74.4	4.4	2.9
28	3.3	0.0	3.3	73.4	4.3	2.9
28	3.3	0.0	3.3	72.5	4.3	2.9
28	3.3	0.0	3.3	71.6	4.2	2.8
28	3.3	0.0	3.3	70.8	4.2	2.8
28	3.3	0.0	3.3	70.0	4.1	2.7
28	3.3	0.0	3.3	69.3	4.1	2.7
28	3.3	0.0	3.3	68.6	4.0	2.7
28	3.3	0.0	3.3	68.0	4.0	2.7
28	3.3	0.0	3.3	67.4	4.0	2.6

Scenario 2

Rubber						
waste (kt)	$DDOC_{m\ dep}$ (t)	$DDOC_{m\ decom}$ (t)	$DDOC_{m\ remain}$ (t)	$DDOC_{m\ accum\ T}$ (t)	$DDOC_{m\ decom\ T}$ (t)	$CH_{4\ generated}$ (t)
267	52.1	0.0	52.1	52.1	0.0	0.0
267	52.1	0.0	52.1	101.1	3.0	2.0
267	52.1	0.0	52.1	147.3	5.9	3.9
267	52.1	0.0	52.1	190.8	8.6	5.7
267	52.1	0.0	52.1	231.7	11.1	7.4
267	52.1	0.0	52.1	270.3	13.5	9.0
267	52.1	0.0	52.1	306.6	15.7	10.5
267	52.1	0.0	52.1	340.8	17.9	11.9
267	52.1	0.0	52.1	373.0	19.8	13.2
267	52.1	0.0	52.1	403.4	21.7	14.5
573	111.7	0.0	111.7	491.6	23.5	15.7
573	111.7	0.0	111.7	574.6	28.6	19.1
573	111.7	0.0	111.7	652.8	33.5	22.3
573	111.7	0.0	111.7	726.5	38.0	25.3
573	111.7	0.0	111.7	795.9	42.3	28.2
573	111.7	0.0	111.7	861.2	46.3	30.9
573	111.7	0.0	111.7	922.7	50.2	33.4
573	111.7	0.0	111.7	980.7	53.7	35.8
573	111.7	0.0	111.7	1,035.2	57.1	38.1
573	111.7	0.0	111.7	1,086.6	60.3	40.2
573	111.7	0.0	111.7	1,135.0	63.3	42.2
573	111.7	0.0	111.7	1,180.6	66.1	44.1
573	111.7	0.0	111.7	1,223.5	68.8	45.8
573	111.7	0.0	111.7	1,263.9	71.3	47.5
573	111.7	0.0	111.7	1,302.0	73.6	49.1
573	111.7	0.0	111.7	1,337.9	75.8	50.5
573	111.7	0.0	111.7	1,371.6	77.9	51.9
573	111.7	0.0	111.7	1,403.4	79.9	53.3
573	111.7	0.0	111.7	1,433.4	81.7	54.5
573	111.7	0.0	111.7	1,461.6	83.5	55.6
573	111.7	0.0	111.7	1,488.1	85.1	56.7
573	111.7	0.0	111.7	1,513.2	86.7	57.8
573	111.7	0.0	111.7	1,536.7	88.1	58.7
573	111.7	0.0	111.7	1,558.9	89.5	59.7
573	111.7	0.0	111.7	1,579.8	90.8	60.5
573	111.7	0.0	111.7	1,599.5	92.0	61.3
573	111.7	0.0	111.7	1,618.0	93.1	62.1
573	111.7	0.0	111.7	1,635.5	94.2	62.8
573	111.7	0.0	111.7	1,651.9	95.2	63.5
573	111.7	0.0	111.7	1,667.4	96.2	64.1
573	111.7	0.0	111.7	1,682.0	97.1	64.7
573	111.7	0.0	111.7	1,695.7	97.9	65.3
573	111.7	0.0	111.7	1,708.6	98.7	65.8
573	111.7	0.0	111.7	1,720.8	99.5	66.3
573	111.7	0.0	111.7	1,732.3	100.2	66.8
573	111.7	0.0	111.7	1,743.0	100.9	67.3
573	111.7	0.0	111.7	1,753.2	101.5	67.7
573	111.7	0.0	111.7	1,762.8	102.1	68.1
573	111.7	0.0	111.7	1,771.8	102.7	68.4
573	111.7	0.0	111.7	1,780.3	103.2	68.8
573	111.7	0.0	111.7	1,788.3	103.7	69.1

Scenario 2

Total CH_4 Generated (t)	Methan recovered			CH_4* (t)	E_j	Ej (t CO_2 -e)
	Q_{cap} (m^3)	Q_{flared} (m^3)	Q_{fr} (m^3)			
0.0	0	0	0	0.0	0.0	0.0
54.5	0	0	0	54.5	49.0	1029.9
102.9	0	0	0	102.9	92.6	1944.1
146.0	0	0	0	146.0	131.4	2758.8
184.5	0	0	0	184.5	166.1	3487.6
219.1	0	0	0	219.1	197.2	4141.9
250.4	0	0	0	250.4	225.3	4731.7
278.6	0	0	0	278.6	250.7	5265.1
304.2	0	0	0	304.2	273.8	5749.2
327.5	0	0	0	327.5	294.8	6190.2
348.8	0	0	0	348.8	314.0	6593.0
329.6	0	0	0	329.6	296.7	6229.9
313.5	0	0	0	313.5	282.2	5925.8
300.1	0	0	0	300.1	270.1	5671.1
288.8	0	0	0	288.8	259.9	5457.7
279.3	0	0	0	279.3	251.4	5278.8
271.4	0	0	0	271.4	244.2	5128.8
264.7	0	0	0	264.7	238.2	5002.9
259.1	0	0	0	259.1	233.2	4897.3
254.4	0	0	0	254.4	229.0	4808.5
250.5	0	0	0	250.5	225.4	4734.0
247.2	0	0	0	247.2	222.4	4671.3
244.4	0	0	0	244.4	219.9	4618.6
242.0	0	0	0	242.0	217.8	4574.2
240.0	0	0	0	240.0	216.0	4536.8
238.4	0	0	0	238.4	214.5	4505.3
237.0	0	0	0	237.0	213.3	4478.7
235.8	0	0	0	235.8	212.2	4456.3
234.8	0	0	0	234.8	211.3	4437.4
233.9	0	0	0	233.9	210.5	4421.3
233.2	0	0	0	233.2	209.9	4407.7
232.6	0	0	0	232.6	209.3	4396.2
232.1	0	0	0	232.1	208.9	4386.4
231.6	0	0	0	231.6	208.5	4378.1
231.3	0	0	0	231.3	208.1	4371.0
230.9	0	0	0	230.9	207.9	4364.9
230.7	0	0	0	230.7	207.6	4359.6
230.4	0	0	0	230.4	207.4	4355.1
230.2	0	0	0	230.2	207.2	4351.2
230.0	0	0	0	230.0	207.0	4347.9
229.9	0	0	0	229.9	206.9	4344.9
229.8	0	0	0	229.8	206.8	4342.3
229.6	0	0	0	229.6	206.7	4340.0
229.5	0	0	0	229.5	206.6	4338.0
229.4	0	0	0	229.4	206.5	4336.1
229.3	0	0	0	229.3	206.4	4334.5
229.3	0	0	0	229.3	206.3	4332.9
229.2	0	0	0	229.2	206.3	4331.5
229.1	0	0	0	229.1	206.2	4330.3
229.1	0	0	0	229.1	206.1	4329.0
229.0	0	0	0	229.0	206.1	4327.9
						227,132 Total

Worldwide Locations

Australia	+61-2-8484-8999
Azerbaijan	+994 12 4975881
Belgium	+32-3-540-95-86
Bolivia	+591-3-354-8564
Brazil	+55-21-3526-8160
China	+86-20-8130-3737
England	+44 1928-726006
France	+33(0)1 48 42 59 53
Germany	+49-631-341-13-62
Ireland	+353 1631 9356
Italy	+39-02-3180 77 1
Japan	+813-3541 5926
Malaysia	+603-7725-0380
Netherlands	+31 10 2120 744
Philippines	+632 910 6226
Scotland	+44 (0) 1224-624624
Singapore	+65 6295 5752
Thailand	+662 642 6161
Turkey	+90-312-428-3667
United States	+1 978-589-3200
Venezuela	+58-212-762-63 39

Australian Locations

Adelaide
Brisbane
Canberra
Darwin
Melbourne
Newcastle
Perth
Sydney
Singleton

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