



**OFFICE OF THE DEPUTY PRIME MINISTER
MINISTRY OF LOCAL GOVERNMENT
REPUBLIC OF KENYA**



CITY COUNCIL OF NAIROBI

PREPARATORY SURVEY FOR INTEGRATED SOLID WASTE MANAGEMENT IN NAIROBI CITY IN THE REPUBLIC OF KENYA

**FINAL REPORT
VOLUME 4 DATA BOOK**

OCTOBER 2010



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)



CTI ENGINEERING INTERNATIONAL CO., LTD.



NJS CONSULTANTS CO., LTD.

All Kenyan Shilling amounts including project costs shown in this report are stated in 2010 prices unless otherwise indicated. The amounts were estimated based on foreign prices by applying currency exchange rates for interbank rates as of 1st of June 2010; namely, USD1 = KSh 75.8 = JPY 91.35.

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FINAL REPORT

VOLUME 4

DATA BOOK

SECTION A

WASTE AMOUNT AND COMPOSITION ANALYSIS

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1. Waste Generation and Composition Analysis

1.1 Present Waste Generation and Composition

Table 1.1.1 Number of the Household Surveyed, Wet and Dry Seasons

Income Class	Area	No. of Families	Total Population	Average No. of Households
High Income	Kitisuru	15	74	4.9
	Karen	15	78	5.2
Middle Income	Langata	15	50	3.3
	South B	15	58	3.9
Low-Middle Income	Riruta	15	56	3.7
	Umoja	15	57	3.8
Low Income	Dandora	15	39	2.6
	Bahati	15	42	2.8
Slum	Kibera	15	59	3.9
	Mukuru	15	51	3.4

Table 1.1.2 Weight of Domestic Waste Generation (kg/day) During Wet Season

Income Class	Area	12/11/2009	12/12/2009	12/13/2009	12/14/2009	12/15/2009	12/16/2009	12/17/2009	Average
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
High Income	Kitisuru	2.4	3.0	3.0	3.1	2.4	2.3	4.0	2.9
	Karen	3.0	2.8	2.6	2.4	4.8	3.7	2.5	3.1
Middle Income	Langata	2.7	2.0	2.8	2.5	1.7	2.3	2.0	2.3
	South B	2.9	2.4	3.0	2.0	2.6	2.6	2.5	2.6
Low-Middle Income	Riruta	2.1	2.0	1.7	1.7	3.0	1.5	1.6	1.9
	Umoja	1.7	1.4	1.4	1.8	1.1	1.4	1.3	1.4
Low Income	Dandora	0.8	0.6	0.6	0.6	1.9	0.7	0.6	0.8
	Bahati	0.6	1.1	1.0	1.1	0.7	0.8	0.6	1.0
Slum	Kibera	2.4	1.2	1.4	1.4	1.4	2.8	1.4	1.7
	Mukuru	1.0	1.2	1.3	2.0	1.8	1.6	0.7	1.4

Table 1.1.3 Weight of Domestic Waste Generation (kg/day) During Dry Season

Income Class	Area	1/9/2010	1/10/2010	1/11/2010	1/12/2010	1/13/2010	1/14/2010	1/15/2010	Average
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
High Income	Kitisuru	4.2	3.4	3.3	4.0	2.6	2.7	2.3	3.2
	Karen	2.1	2.6	1.8	1.9	2.6	2.0	2.2	2.2
Middle Income	Langata	2.0	3.3	4.1	2.5	2.2	2.3	2.0	2.5
	South B	1.9	2.7	2.0	2.3	2.1	2.2	1.8	2.1
Low-Middle Income	Riruta	2.0	1.7	1.8	1.6	1.4	1.7	1.5	1.7
	Umoja	1.9	2.0	2.0	1.9	1.8	2.5	2.4	2.1
Low Income	Dandora	0.9	0.9	0.9	0.6	0.4	0.3	0.3	0.6
	Bahati	1.0	1.0	0.7	0.8	1.0	1.0	0.5	1.0
Slum	Kibera	1.9	2.0	2.1	2.2	2.0	1.4	1.8	1.9
	Mukuru	1.4	1.3	1.2	0.9	1.1	1.0	1.1	1.1

Table 1.1.4 Weight of Shop Waste Generation (kg/day) During Dry Season

Shops	No. of Employee	1/22/2010	1/23/2010	1/24/2010	1/25/2010	1/26/2010	1/27/2010	1/28/2010	Average
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
1 Home Boyz Kinyozi	3	0.5	1	1	0.5	0.5	0.5	1	0.71
2 Mama Salma Salon	1	1	1	1	0.5	0.5	0.5	0.5	0.71
3 Transition shop	2	0.2	0.2	closed	0.2	1	0.25	0.1	0.33
4 Maxtor Comunications	3	1	0.5	closed	1.5	0.6	0.5	0.5	0.77
5 Dominion Entertainment	2	1	1	1	1	1	1	0.5	0.93
6 Las Vegas Entertainment	4	0.1	0.15	0.25	0.25	0.15	0.2	0.1	0.17
7 Mama Kim's Shop	3	0.1	0.1	closed	0.1	0.1	0.95	0.2	0.26
8 Anstan Enterprises	2	1	0.5	closed	0.5	1	0.5	1	0.75
9 Maki Beauty Creation	6	0.1	0.15	closed	0.15	0.1	0.15	0.1	0.13
10 Ladies Choice	5	0.5	1	closed	1.2	0.5	0.8	0.5	0.75
11 Lisaka Hardware	5	0.5	0.25	closed	0.1	0.3	0.15	0.4	0.28
12 Optec Electronics	7	0.45	1	0.4	0.4	1.2	0.5	0.4	0.62
13 Jagim Traders	5	0.65	0.7	closed	1.2	1	0.75	0.78	0.85
14 Premier Collection	3	1	0.75	closed	1	0.55	0.75	1	0.84
15 Daima Nila	4	0.7	1	closed	0.95	2	1.55	0.7	1.15
16 Mosmay and Aerials	5	0.2	0.05	closed	0.15	0.2	0.1	0.2	0.15
17 Victoria Cosmetics	7	0.4	0.2	0.25	0.85	0.5	0.2	0.4	0.40
18 Music Land	5	0.4	0.2	0.4	0.75	0.2	0.45	0.25	0.38
19 Victoria Electronics	6	0.5	0.25	0.3	0.3	0.5	0.4	0.35	0.37
20 Parker House	5	1.2	0.8	0.95	1	0.7	0.8	1.3	0.96
21 Health Choice Kenya	7	0.1	0.05	closed	0.15	0.2	0.1	0.1	0.12
22 Loungenet	8	1.5	1.6	2	1.3	2.1	1.6	2.4	1.79
23 Mumbu Holdings	5	0.2	0.3	closed	0.2	0.35	0.05	0.1	0.20
24 Target networks	6	0.1	0.05	closed	0.1	0.3	0.05	0.1	0.12
25 Airtime Business Solutions	2	0.2	0.4	closed	0.6	0.1	0.2	0.05	0.26
26 Zertort Communications	5	0.05	0.1	closed	0.05	0.1	0.1	0.1	0.08
27 Joe Electricals	4	0.3	0.2	0.2	0.3	0.5	0.3	0.4	0.31
28 The Next Shop	1	0.5	0.75	closed	1	1.2	1	0.5	0.83
29 Benta's Wear	3	1	1	0.5	1	0.5	1.2	0.5	0.81
30 Inn Tech Media Ent.	1	1	0.5	closed	1.2	0.5	1.5	1	0.95
Average	4								0.57

Table 1.1.5 Weight of Shop Waste Generation (kg/day) During Wet Season

Shops	No. of Employee	3/20/2010	3/21/2010	3/22/2010	3/23/2010	3/24/2010	3/25/2010	3/26/2010	Average
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
1 Home Boyz Kinyozi	3	0.1	0.1	0	0.15	0.1	3	2	0.78
2 Mama Salma Salon	1	0.1	0.1	0.1	0.1	0.8	2.5	3.5	1.03
3 Transition shop	2	0.2	0.2	0.1	0.2	1	0.25	closed	0.33
4 Maxtor Comunications	3	0.15	0.25	0.2	0.2	0.1	1	closed	0.32
5 Dominion Entertainment	2	0.45	0.5	0.1	0.1	0.25	0.25	closed	0.28
6 Las Vegas Entertainment	4	0.1	0.15	0.1	0.25	0.15	0.2	0.25	0.17
7 Mama Kim's Shop	3	0.1	0.1	0.2	0.1	0.1	0.95	closed	0.26
8 Anstan Enterprises	2	0.1	0.1	0.1	1	0.25	0.1	closed	0.28
9 Maki Beauty Creation	6	0.1	0.15	0.1	0.15	0.1	0.15	closed	0.13
10 Ladies Choice	5	0.1	0.25	0.1	0.2	0.15	0.25	closed	0.18
11 Lisaka Hardware	5	0.5	0.25	0.4	0.1	0.3	0.15	closed	0.28
12 Optec Electronics	7	0.45	1	0.4	0.4	1.2	0.5	0.4	0.62
13 Jagim Traders	5	0.65	0.7	0.78	1.2	1	0.75	closed	0.85
14 Premier Collection	3	1	0.75	1	1	0.55	0.75	closed	0.84
15 Daima Nila	4	0.7	1	0.7	0.95	2	1.55	closed	1.15
16 Mosmay and Aerials	5	0.2	0.05	0.2	0.15	0.2	0.1	closed	0.15
17 Victoria Cosmetics	7	0.4	0.2	0.4	0.85	0.5	0.2	0.25	0.40
18 Music Land	5	0.4	0.2	0.25	0.75	0.2	0.45	0.4	0.38
19 Victoria Electronics	6	0.5	0.25	0.35	0.3	0.5	0.4	0.3	0.37
20 Parker House	5	1.2	0.8	1.3	1	0.7	0.8	0.95	0.96
21 Health Choice Kenya	7	0.1	0.05	0.1	0.15	0.2	0.1	closed	0.12
22 Loungenet	8	1.5	1.6	2.4	1.3	2.1	1.6	2	1.79
23 Mumbu Holdings	5	0.2	0.3	0.1	0.2	0.35	0.05	closed	0.20
24 Target networks	6	0.1	0.05	0.1	0.1	0.3	0.05	closed	0.12
25 Airtime Business Solutions	2	0.2	0.4	0.05	0.6	0.1	0.2	closed	0.26
26 Zertort Communications	5	0.05	0.1	0.1	0.05	0.1	0.1	closed	0.08
27 Joe Electricals	4	0.3	0.2	0.4	0.3	0.5	0.3	0.2	0.31
28 The Next Shop	1	0.2	0.35	0.1	0.1	0.05	0.2	closed	0.17
29 Benta's Wear	3	0.2	0.05	0.1	0.1	0.1	0.1	0.05	0.10
30 Inn Tech Media Ent.	1	0.03	0.1	0.05	0.2	0.1	0.1	closed	0.10
Average	4								0.43

Table 1.1.6 Weight of Restaurant Waste Generation (kg/day) During Dry Season

Restaurant	No. of Customer	1/22/2010	1/23/2010	1/24/2010	1/25/2010	1/26/2010	1/27/2010	1/28/2010	Average
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
1 Avillaz	150	34	30	34	25	41	46	33	34.71
2 Mika Foods	100	32	33	24	22	36	43	21	30.14
3 Kengeles Lavington	150	36	21	41	66	36.5	34	38	38.93
4 White cafeteria	110	32	41	32.5	34	26	34	30	32.79
5 Roast House Restaurant	100	36	43	23	34	33	35.5	39	34.79
6 Secrets Lounge	80	33	35	26	33	28	36	28	31.29
7 Calypso	150	23	26	20	18	24	24	27	23.14
8 Kengeles Nairobi West	250	65	60.2	56	50.2	43	70	86	61.49
9 Fiesta Restaurant & Bar	80	14	12	13.6	26.3	25	18	14.1	17.57
10 Originelle Restaurant	200	24	35	46	45	65	26	23	37.71
11 White Cafeteria	100	21	21	25	28	21	23	27	23.71
12 Skytop Restaurant	100	25	12.6	16	25	19	18	22	19.66
13 Eateries	170	32	22	29	22	16.4	12.6	22	22.29
14 Mandys Restaurant	80	23.3	11	36	26	25	26	32	25.61
15 Upper Hill Restaurant	250	32	21	16.3	15	32	27.2	33	25.21
Average	138								30.60

Table 1.1.7 Weight of Restaurant Waste Generation (kg/day) During Wet Season

Restaurant	No. of Customer	3/20/2010	3/21/2010	3/22/2010	3/23/2010	3/24/2010	3/25/2010	3/26/2010	Average
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
1 Avillaz	150	35	82	30	84	55	64.2	59.8	58.57
2 Mika Foods	100	25	30	30	25	38.5	45	27.5	31.57
3 Kengeles Lavington	150	38	22.5	45.5	67	35.5	48	35	41.64
4 White cafeteria	110	34	41	35.5	29	31	36	34.5	34.43
5 Roast House Restaurant	100	35	37.5	32	41	40	37.5	38	37.29
6 Secrets Lounge	80	32.5	31	29.5	35	31.5	29.5	30	31.29
7 Calypso	150	28	35	23.5	46.4	23.5	54	31.2	34.51
8 Kengeles Nairobi West	250	101	87	65	106.2	63.1	72	78.3	81.80
9 Fiesta Restaurant & Bar	80	21	35.2	38.7	39.8	21.2	29.3	32	31.03
10 Originelle Restaurant	200	120	110	109.6	56	58	65	63.2	83.11
11 White Cafeteria	100	50	56	23	41	28.7	25	30.5	36.31
12 Skytop Restaurant	100	26	20.3	65.6	32	53	55	27.8	39.96
13 Eateries	170	59	65	68	63	23.4	57	59	56.34
14 Mandys Restaurant	80	32	45	26	49.2	36	56	69	44.74
15 Upper Hill Restaurant	250	45	26	23.6	24.5	52	57.2	53	40.19
Average	138								45.52

Table 1.1.8 Weight of Hotel Waste Generation (kg/day) During Dry Season

Hotel	No. of Customer	1/22/2010	1/23/2010	1/24/2010	1/25/2010	1/26/2010	1/27/2010	1/28/2010	Average
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
1 Meridian Hotel	200	59	45	78	73	56	73	60	63.43
2 Mercury Hotel	200	112	101	72	123	121	123	98	107.14
3 Terrace Hotel	425	90	45	98	87	106	109	112	92.43
4 Grand Holiday Hotel	120	19	25	40	52	46	42	48	38.86
5 Panafric Hotel	990	750	1020	1100	1400	1200	1020	950	1062.86
6 Serena Hotel	918	1300	1360	1080	1300	1020	1140	1020	1174.29
7 Stanley Sarova	400	1110	980	650	890	950	870	810	894.29
8 Jacaranda Hotel	620	250	650	520	350	215	172	146	329.00
9 Heron Court Hotel	250	132.2	125	135	110	130	120	150	128.89
10 Laico Regency Hotel	600	1025	870	650	540	650	460	480	667.86
11 Sagret Hotel	200	350	210	150	180	200	360	180	232.86
12 Marble Arch Hotel	350	205	126	240	189	179	210	156	186.43
13 Jamiat Hotel	80	45	52	46	49	42	41	36	44.43
14 Kenya Comfort Hotel	150	122.3	103	86	72	110	83	76	93.19
15 Lenana Mount Hotel	160	75	52	64	103	89	99	89	81.57
Average	378								346.50

Table 1.1.9 Weight of Hotel Waste Generation (kg/day) During Wet Season

Hotel	No. of Customer	3/20/2010	3/21/2010	3/22/2010	3/23/2010	3/24/2010	3/25/2010	3/26/2010	Average
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
1 Meridian Hotel	200	60	48	85	70	55	75	65	65.43
2 Mercury Hotel	200	97	102	98	112	120	139	108	110.86
3 Terrace Hotel	425	92	39	96	87	102	114	109	91.29
4 Grand Holiday Hotel	120	19	25	40	52	46	42	48	38.86
5 Panafric Hotel	990	890	1005	1060	1400	1065	1004	976	1057.14
6 Serena Hotel	918	1200	1025	1080	1360	1200	1360	1620	1263.57
7 Stanley Sarova	400	1310	950	926	1021	1100	980	810	1013.86
8 Jacaranda Hotel	620	250	650	520	350	215	172	146	329.00
9 Heron Court Hotel	250	162	125	256	125	158	106	103	147.86
10 Laico Regency Hotel	600	1050	650	820	758	700	810	857	806.43
11 Sagret Hotel	200	356	250	126	212	220	245	189	228.29
12 Marble Arch Hotel	350	250	210	220	245	270	156	184	219.29
13 Jamiat Hotel	80	85	58	54	46	32	34	32	48.71
14 Kenya Comfort Hotel	150	150	120	109	89	106	96	95.3	109.33
15 Lenana Mount Hotel	160	125	106	98	94	86	82	81	96.00
Average	378								375.06

Table 1.1.10 Weight of School Waste Generation (kg/day) During Dry Season

	School	No. of Student	1/22/2010	1/23/2010	1/24/2010	1/25/2010	1/26/2010	1/27/2010	1/28/2010	Average
			Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
1	All Saints Kindergarten	133	13.5	9	13	11	12	11	10.5	11.43
2	Milimani Pry	1000	16.5	12	17.5	16	17	17.5	18	16.36
3	Jamhuri Pry	881	15.5	13.5	16.5	14	13	18	13.5	14.86
4	Nairobi Sch	1200	17	17.5	23.5	21.5	17.5	22	15.5	19.21
5	Kileleshwa Pry	1080	14	16.5	11	16	14	18	8.5	14.00
6	Arya Primary	1000	16	17	9.5	13	12	12	10	12.79
7	Catholic Parochial	600	14	12	7.5	11	14	8	11	11.07
8	Murang'a Road	750	11	16.5	13	15.5	21	15	16	15.43
9	City Primary	800	16.5	18.5	17	12	10	13.5	11.5	14.14
10	Moi Avenue Pry	568	10	10	9	10	12	13.5	6.5	10.14
11	Moi Girls School	950	92	89	88	79	91	80	96	87.86
12	Sunshine Secondary	900	139	96	123	102	98.3	123	115	113.76
13	Univeristy of Nairobi (Main Campus)	2554	186	215.3	172	165	280	198	179.2	199.36
14	Precious Blood School	984	100	98	96	130	106	82	89	100.14
15	Kenya High	1008	114.8	96	102.64	180	196	142.9	130	137.48
16	Lenana School	1050	180	133	250	248	154	123	215	186.14
17	Starehe Boys	978	116	76	212	65.7	71	69	110.8	102.93
18	Pangani Girls	1100	134	110	115	150	215.3	180.3	112.2	145.26
19	State House Girls	875	54.8	99.7	78	107.7	90.6	109	76	87.97
20	Lavington Primary	862	9.5	24	12.3	9.5	6.9	9.6	13.5	12.19
Average		964								65.63

Table 1.1.11Weight of School Waste Generation (kg/day) During Wet Season

	School	No. of Employee	3/20/2010	3/21/2010	3/22/2010	3/23/2010	3/24/2010	3/25/2010	3/26/2010	Average
			Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
1	All Saints Kindergarten	133	18	10	12.5	12	11.5	10	9.5	11.93
2	Milimani Pry	1000	15	10	16	18.5	20	16	20	16.50
3	Jamhuri Pry	881	16	15	18	12.5	12	20	15	15.50
4	Nairobi Sch	1200	15	20	22.5	22	20	25	18.5	20.43
5	Kileleshwa Pry	1080	15	15	10	18	15	16.5	10.5	14.29
6	Arya Primary	1000	15	16	9	10.5	14	13	11.5	12.71
7	Catholic Parochial	600	12.5	13	8	13	12	9	12	11.36
8	Murang'a Road	750	12	19.5	14	16.5	19	17.5	20	16.93
9	City Primary	800	17.5	21	18.5	13	14	16	12	16.00
10	Moi Avenue Pry	568	8	9.5	10	8	11	13	9	9.79
11	Moi Girls School	950	112	146.3	188	109.4	192	208.2	124	154.27
12	Sunshine Secondary	900	139	96	135	180	100.4	142.9	102	127.90
13	Univeristy of Nairobi (Main Campus)	2554	386	275	292	465.5	380.36	250	250	328.41
14	Precious Blood School	984	78	99.7	96	102	121	130	92	102.67
15	Kenya High	1008	114.8	96	235	180	196	142.9	243.6	172.61
16	Lenana School	1050	145	365	432	387	256.2	231	354	310.03
17	Starehe Boys	978	65.7	106	135	180	82	123	110.8	114.64
18	Pangani Girls	1100	165.8	89	256	232	215.3	180.3	112.2	178.66
19	State House Girls	875	54.8	130	128	107.7	90.6	120	89	102.87
20	Lavington Primary	862	23.5	24	18.5	13	14	16	12	17.29
Average		964								87.74

Table 1.1.12 Weight of Public Office Waste Generation (kg/day) During Dry Season

Office	No. of Employee	1/22/2010	1/23/2010	1/24/2010	1/25/2010	1/26/2010	1/27/2010	1/28/2010	Average
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
1 KACC	250	85	59.5	48.3	68	36.8	53	42.8	56.20
2 Public Service Commission	213	126	110	120	180	115	250	96	142.43
3 Ministry of Environment and Mineral Resources	1668	250	150	150	200	175	110	100	162.14
4 KICC	211	100	100	150	120	145	120	115	121.43
5 Department of Defence - Hurligham Base	3000	700	550	520	480	380	350	690	524.29
6 Prisons Headquarters - Magereza House	402	110	59.8	65.3	54	45	26	35	56.44
7 Government Press	15	5.5	7	7	6	6.5	5.6	8.7	6.61
8 Kenya National Archives	21	8	10	7.5	8.3	5	6	8	7.54
9 Kilimani Police Station	26	7	7.5	7.8	8.3	6.5	10	9	8.01
10 Kileleshwa Police Station	32	17	14	15.8	13	14	16	12	14.54
Average	584								109.96

Table 1.1.13 Weight of Public Office Waste Generation (kg/day) During Wet Season

Office	No. of Employee	3/20/2010	3/21/2010	3/22/2010	3/23/2010	3/24/2010	3/25/2010	3/26/2010	Average
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
1 KACC	250	85	59.5	76	68	71	53	69	68.79
2 Public Service Commission	213	680	310	120.5	112	115.5	90	95	217.57
3 Ministry of Environment and Mineral Resources	1668	350	410	216	185	200	160	200	245.86
4 KICC	211	116	125	138	134	230	120	115	139.71
5 Department of Defence - Hurligham Base	3000	650	750	800	560	720	850	1000	761.43
6 Prisons Headquarters - Magereza House	402	150	150	110	178	115	116.5	100.5	131.43
7 Government Press	15	15	16	9	10.5	14	13	11.5	12.71
8 Kenya National Archives	21	12.5	13	8	13	12	9	12	11.36
9 Kilimani Police Station	26	12	19.5	14	16.5	19	17.5	20	16.93
10 Kileleshwa Police Station	32	27.5	24	28.5	33	44	56	32	35.00
Average	584								164.08

Table 1.1.14 Weight of Market Waste Generation (kg/day), Wet and Dry Seasons

ID.	Market	Division	No. of Vendors	Day Collected	Time Collected	Duration of Collection	Wet Season		Dry Season		Average	
							Quantity of Waste Generation (kg/Day)	Per Capita Waste Generation (Kg/C)	Quantity of Waste Generation (kg/Day)	Per Capita Waste Generation (Kg/C)	Quantity of Waste Generation (kg/Day)	Per Capita Waste Generation (Kg/C)
1	Toi	Langata	800	daily	11am	daily	2142.86	2.68	2857.14	3.57	2500.00	3.13
2	Yaya	Dagoretti	80	daily	6.30am	daily	300.00	3.75	300.00	3.75	300.00	3.75
3	City Market	CBD	252	saturday	10.00am	week(twice)	666.67	2.65	1666.67	6.61	1166.67	4.63
4	Kiamaiiko	Embakasi	150	thursday	8.00am	twice a month	800.00	5.33	1000.00	6.67	900.00	6.00
5	Jericho	Embakasi	500	Any day	11.00am	twice a month	800.00	1.60	1000.00	2.00	900.00	1.80
6	Umoja 2	Embakasi	500	Monday	8.00am	once a week	800.00	1.60	1000.00	2.00	900.00	1.80
7	Kenyatta	Dagoretti	700	Any day	Any time	twice a month	800.00	1.14	1000.00	1.43	900.00	1.29
8	Wakulima	Starehe	4000	Sunday	8.00am	week(twice)	3000.00	0.75	5000.00	1.25	4000.00	1.00
9	City Stadium	Kamukunji	2200	any day	any time	once a week	500.00	0.23	500.00	0.23	500.00	0.23
10	Maziwa	Kamukunji	250	Any day	any time	Once a week	500.00	2.00	500.00	2.00	500.00	2.00
11	Westlands Triangle	Westlands	600	wednesda	10.00am	Once a week	500.00	0.83	500.00	0.83	500.00	0.83
12	Highridge	Westlands	1500	wednesda	9.00am	once a week	500.00	0.33	500.00	0.33	500.00	0.33
13	Mathare North	Kamukunji	35	wednesda	5.00am	week(twice)	500.00	14.29	500.00	14.29	500.00	14.29
14	Jericho Market	Embakasi	600	thursday	any time	once a week	500.00	0.83	500.00	0.83	500.00	0.83
15	Westlands Open Air	Westlands	1500	wednesda	11.00am	twice a week	500.00	0.33	500.00	0.33	500.00	0.33
16	Landhies Road Retail	Kamukunji	80	anyday	anytime	once a week	3571.43	44.64	5714.29	71.43	4642.86	58.04
17	Ngara	Starehe	318	any day	any time	monthly	1643.66	5.17	2301.12	7.24	1972.39	6.20
18	New Ngara	Starehe	80	sun/wed/	any time	three times a week	500.00	6.25	500.00	6.25	500.00	6.25
19	Kariobangi North	Kasarani	156	any day	any time	twice a month	1000.00	6.41	2000.00	12.82	1500.00	9.62
20	Kariokor Market	Starehe	206	mon/wed/	any time	three times a	500.00	2.43	500.00	2.43	500.00	2.43
21	westlands	Westlands	107	tuesday	6.00am	week(twice)	500.00	4.67	500.00	4.67	500.00	4.67
22	kangemi	Westlands	800	any day	any time	monthly	1500.00	1.88	3000.00	3.75	2250.00	2.81
23	city park	Westlands	700	any day	any time	fortnightly	800.00	1.14	800.00	1.14	800.00	1.14
24	Kawangware	Dagoretti	500	any three days	any time	thrice a week	8333.33	16.67	8333.33	16.67	8333.33	16.67
25	Muthurwa Hawkers Market	CBD	13000	daily	any time	daily	7000.00	0.54	7000.00	0.54	7000.00	0.54
26	Shauri Moyo	Embakasi	308	daily	any time	daily	500.00	1.62	500.00	1.62	500.00	1.62
27	Jogoo Road	Embakasi	450	daily	any time	daily	500.00	1.11	500.00	1.11	500.00	1.11
28	Umoja 1	Embakasi	320	daily	any time	once a week	500.00	1.56	500.00	1.56	500.00	1.56
29	Kariobangi South	Kamukunji	596	daily	any time	twice a month	6428.57	10.79	8571.43	14.38	7500.00	12.58
30	Gikomba	Kamukunji	10000	daily	any time	once a month	7142.86	0.71	11428.57	1.14	9285.71	0.93
						Average Waste Gen. Per Market	1,774.31		2,315.75		2,045.03	

Table 1.1.15 Weight of Road Waste Generation (kg/day) During Dry Season

	Road	Length	1/22/2010	1/23/2010	1/24/2010	1/25/2010	1/26/2010	1/27/2010	1/28/2010	Average
			Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
1	Kirinyaga Road	2.44	314	299	326	273	280	287	300	297.00
2	River Road	2.14	197	194	210	164	156	161	184	180.86
3	Accra Road	1.00	148	159	150	141	146	144	149	148.14
4	Duruma road	0.22	127	110	145	115	120	104	119	120.00
5	Kijabe Street	1.34	209	0	214	164	169	170	178	157.71
6	Cross Road	1.68	201	112	190	105	123	130	119	140.00
7	Wabera Street	3.44	46.5	84.5	57.5	44	57.5	74.5	52	59.50
8	Country Road	3.48	0	0	0	0	68.5	23	2	13.36
9	Mama Ngina Street	6.32	75.5	77	69.5	68	40.5	56	43	61.36
10	Kenyatta Avenue	0.96	122.5	82	115.5	95	150	121	76.5	108.93
11	Harambee Avenue	1.44	62	70	61	36	51	65.5	28	53.36
12	City Hall Way	0.17	59.5	72	93	69	143	89	86	87.36
13	Munyu Road	0.90	22	17	15	15	19	24	24	19.43
14	Moi Avenue	5.72	70.5	98	94	107	87	80	96	90.36
15	Tom Mboya	4.24	89	102	82	101	94	73	81	88.86
16	Latema Road	0.92	43	97	88	40	57	62	54	63.00
17	Luthui Road	0.66	22	27	25	37	26	17	25	25.57
18	Ronald Ngala	1.96	19	36	31	40	24	27	33	30.00
19	Koinange Street	2.44	91	147	97	98	98.5	119	83	104.79
20	Loita Street	1.10	68	130	87	80	79.5	76	81	85.93
21	Univarsity Way	1.84	64	45	77	112	109	59	66	76.00
22	Biasara Street	0.74	24	37	45	49	53	69	51	46.86
23	Harry Thuku	1.42	30	37	29	51	37	55	49	41.14
24	Muindi Mbingu	3.08	72	69	88	72	91	106	83	83.00
25	Haile Selassie	10.20	250	350	284	375	390	350	250	321.29
26	Race Course	3.00	172	374	230	350	430	270	285	301.57
27	Ring Road	1.22	113	97	150	75	104	160	160	122.71
28	Landhies Road	1.02	109	140	150	170	240	135	150	156.29
29	Ukwala	0.54	60	94	50	98	70	110	70	78.86
30	Exchange	0.80	45	30	50	74	70	92	40	57.29
Average		2								48.48

Table 1.1. 16 Weight of Road Waste Generation (kg/day) During Wet Season

Road	Length								Average	
		3/20/2010 Day 1	3/21/2010 Day 2	3/22/2010 Day 3	3/23/2010 Day 4	3/24/2010 Day 5	3/25/2010 Day 6	3/26/2010 Day 7		
1	Kirinyaga Road	2.44	309	331	300	285	292	280	290	298.14
2	River Road	2.14	190	200	186	174	177	172	181	182.86
3	Accra Road	1.00	148	159	150	141	146	144	149	148.14
4	Duruma road	0.22	132	144	138	131	130	134	140	135.57
5	Kijabe Street	1.34	163	170	153	154	159	155	150	157.71
6	Cross Road	1.68	151	171	155	149	147	141	153	152.43
7	Wabera Street	3.44	44	40	28	41	20	37	25	33.57
8	Country Road	3.48	28.5	20	28	35	46	42	18	31.07
9	Mama Ngina Street	6.32	52	47	79	48	46	42	56	52.86
10	Kenyatta Avenue	0.96	90	101	72	85	104	91	80	89.00
11	Harambee Avenue	1.44	65	75	66	88	58	70	61	69.00
12	City Hall Way	0.17	55	75	66	69	72	80	89	72.29
13	Munyu Road	0.90	66	96	58	73	69	72	62	70.86
14	Moi Avenue	5.72	111	121	116	66	104	114	97	104.14
15	Tom Mboya	4.24	72	81	121	85	125	94	106	97.71
16	Latema Road	0.92	35	64	51	57	52	44	42	49.29
17	Luthui Road	0.66	28	47	55	54	61	36	35	45.14
18	Ronald Ngala	1.96	76	91	38	54	43	72	66	62.86
19	Koinange Street	2.44	102	76	139	111	107	121	146	114.57
20	Loita Street	1.10	73	56	75	74	67	63	77	69.29
21	Universrity Way	1.84	66	50	77	32	40	47	52	52.00
22	Biashara Street	0.74	87	46	73	69	70	75	81	71.57
23	Harry Thuku	1.42	54	48	67	55	61	69	71	60.71
24	Muindi Mbingu	3.08	100	65	89	91	76	83	104	86.86
25	Haile Selassie	10.20	323	363	425	394	351	346	493	385.00
26	Race Course	3.00	72	126	384	327	283	245	398	262.14
27	Ring Road	1.22	69	72	120	106	77	89	108	91.57
28	Landhies Road	1.02	32	26	95	83	56	61	75	61.14
29	Ukwala	0.54	76	75	108	215	179	128	201	140.29
30	Exchange	0.80	68	45	117	73	81	78	97	79.86
Average		2								50.09

Table 1.1.17 Waste Composition Ratio (%) in High Income During Wet Season

Waste Composition			Day 1		Day 2		Day 3		Average	
			Weight (kgs)	Composition Ratio (%)						
1	Food Waste		49.00	58.86	44.50	56.01	28.00	56.80	40.5	57.31
2	Paper	Recyclable Paper	0.35	0.42	0.30	0.38	2.00	4.06	0.9	1.25
3		Recyclable Cardboard	1.10	1.32	2.00	2.52	0.85	1.72	1.3	1.86
4		Mixed Paper	3.35	4.02	2.50	3.15	2.00	4.06	2.6	3.70
5		Diapers	3.65	4.38	3.75	4.72	2.50	5.07	3.3	4.67
6		<i>Subtotal-Paper</i>	8.5	10.15	8.6	10.76	7.4	14.91	8.1	11.49
7	Plastics	Plastic Sheet	5.45	6.55	5.00	6.29	2.50	5.07	4.3	6.11
8		Recyclable Plastics	0.85	1.02	0.30	0.38	0.15	0.30	0.4	0.61
9		PET Bottles	1.15	1.38	2.00	2.52	0.45	0.91	1.2	1.70
10		Other Plastics	0.20	0.24	1.50	1.89	0.50	1.01	0.7	1.04
11		<i>Subtotal-Plastics</i>	7.7	9.19	8.8	11.08	3.6	7.30	6.7	9.46
12	Rubber & Leather		0.60	0.72	0.10	0.13	0.40	0.81	0.4	0.52
13	Textiles		0.85	1.02	0.25	0.31	0.25	0.51	0.5	0.64
14	Yard Waste		0.00	0.00	10.00	12.59	4.00	8.11	4.7	6.60
15	Lumber & Logs		1.60	1.92	3.00	3.78	3.00	6.09	2.5	3.58
16	Other Org. Waste		12.00	14.41	0.00	0.00	0.00	0.00	4.0	5.66
	Organic Waste - Subtotal		80.2	96.28	75.2	94.65	46.6	94.52	67.3	95.26
17	Inorganic Waste									
18	Glass	Returnable Bottles	1.60	1.92	1.50	1.89	0.00	0.00	1.0	1.46
19		Other Live Bottles	0.05	0.06	0.00	0.00	1.50	3.04	0.5	0.73
20		Glass bins	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00
21		Broken Glass	0.30	0.36	0.00	0.00	0.30	0.61	0.2	0.28
22		<i>Glass-Subtotal</i>	2.0	2.34	1.5	1.89	1.8	3.65	1.8	2.48
23	Metals	Tin Cans (steel cans)	0.30	0.36	0.40	0.50	0.30	0.61	0.3	0.47
		Aluminum cans	0.45	0.54	0.35	0.44	0.45	0.91	0.4	0.59
		Copper	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00
		Other Metals	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00
		<i>Metal-subtotal</i>	0.8	0.90	0.8	0.94	0.8	1.52	0.8	1.06
24	Dirt, Ash, Stone, Sand		0.0	0.00	2.0	2.52	0.0	0.00	0.7	0.94
	Inorganic Waste - Subtotal		2.7	3.24	4.3	5.35	2.6	5.17	3.2	4.48
25	Unclassified residual waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
	Domestic Hazardous Waste		0.4	0.48	0.0	0.00	0.2	0.30	0.2	0.26
26	Batteries - Dry Cells		0.05	0.06	0.0	0.00	0.2	0.30	0.1	0.09
27	Other Domestic Hazardous Waste		0.35	0.42	0.0	0.00	0.0	0.00	0.1	0.17
	Total weight		83.3	100.00	79.5	100.00	49.3	100.00	70.7	100.00
	Total volume		370		360		220		317	
	Bulk Density		0.225		0.221		0.224		0.223	

Table 1.1.18 Waste Composition Ratio (%) in High Income During Dry Season

Waste Composition			Day 1		Day 2		Day 3		Average	
			Weight (kgs)	Composition Ratio (%)						
1	Food Waste		42.0	61.62	37.0	74.22	44.0	79.64	41.0	72.58
2	Paper	Recyclable Paper	1.0	1.47	0.6	1.20	0.3	0.54	0.6	1.12
3		Recyclable Cardboard	0.8	1.17	1.5	3.01	1.0	1.81	1.1	1.95
4		Mixed Paper	3.0	4.40	1.0	2.01	2.0	3.62	2.0	3.54
5		Diapers	3.0	4.40	1.5	3.01	2.5	4.52	2.3	4.13
6		<i>Subtotal-Paper</i>	7.8	11.44	4.6	9.23	5.8	10.50	6.1	10.74
7	Plastics	Plastic Sheet	4.0	5.87	2.0	4.01	2.5	4.52	2.8	5.02
8		Recyclable Plastics	2.2	3.23	0.7	1.40	0.4	0.72	1.1	1.95
9		PET Bottles	0.5	0.73	0.5	1.00	0.5	0.90	0.5	0.89
10		Other Plastics	0.3	0.37	0.2	0.30	0.0	0.00	0.1	0.24
11		<i>Subtotal-Plastics</i>	7.0	10.20	3.4	6.72	3.4	6.15	4.6	8.08
12	Rubber & Leather		0.0	0.00	0.5	1.00	0.0	0.00	0.2	0.30
13	Textiles		2.1	3.08	0.5	1.00	0.1	0.18	0.0	0.00
14	Yard Waste		6.0	8.80	1.0	2.01	0.1	0.18	0.5	0.89
15	Lumber & Logs		0.6	0.81	1.5	3.01	0.0	0.00	0.7	1.21
16	Other Org. Waste		0.0	0.00	0.0	0.00	0.0	0.00	1.5	2.66
	Organic Waste - Subtotal		65.4	95.95	48.5	97.19	53.4	96.65	54.5	96.45
17	Inorganic Waste									
18	Glass	Returnable Bottles	0.0	0.00	0.0	0.00	0.6	1.09	0.2	0.35
19		Other Live Bottles	1.0	1.39	0.1	0.20	0.0	0.00	0.4	0.62
20		Glass bins	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
21		Broken Glass	0.3	0.38	0.6	1.10	0.0	0.00	0.3	0.48
22		<i>Glass-Subtotal</i>	1.2	1.78	0.7	1.30	0.6	1.09	0.8	1.45
23	Metals	Tin Cans (steel cans)	0.4	0.59	0.5	1.00	0.5	0.90	0.5	0.83
		Aluminum cans	0.2	0.29	0.3	0.50	0.1	0.18	0.2	0.32
		Copper	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Other Metals	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		<i>Metal-subtotal</i>	0.6	0.88	0.8	1.50	0.6	1.09	0.7	1.15
24	Dirt, Ash, Stone, Sand		0.6	0.81	0.0	0.00	0.5	0.90	0.4	0.62
	Inorganic Waste - Subtotal		2.4	3.46	1.4	2.81	1.7	3.08	1.8	3.22
25	Unclassified residual waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
	Domestic Hazardous Waste		0.4	0.59	0.0	0.00	0.2	0.27	0.2	0.32
26	Batteries - Dry Cells		0.4	0.59	0.0	0.00	0.2	0.27	0.2	0.32
27	Other Domestic Hazardous Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
	Total weight		68.2	100.00	49.9	100.00	55.3	100.00	56.5	100.00
	Total volume		320		240		240		267	
	Bulk Density		0.213		0.208		0.230		0.212	

Table 1.1.19 Waste Composition Ratio (%) in Middle Income During Wet Season

Waste Composition			Day 1		Day 2		Day 3		Average	
			Weight (kgs)	Composition Ratio (%)						
1	Food Waste		31.0	59.50%	41.0	50.74%	29.5	56.73%	33.8	54.89%
2	Paper	Recyclable Paper	4.0	7.68%	4.5	5.57%	3.0	5.77%	3.8	6.22%
3		Recyclable Cardboard	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%
4		Mixed Paper	0.0	0.00%	0.0	0.00%	2.0	3.85%	0.7	1.08%
5		Diapers	1.8	3.45%	4.7	5.82%	2.8	5.38%	3.1	5.03%
6		<i>Subtotal-Paper</i>	5.8	11.13%	9.2	11.39%	7.8	15.00%	7.6	12.33%
7	Plastics	Plastic Sheet	5.0	9.60%	4.3	5.32%	5.0	9.62%	4.8	7.73%
8		Recyclable Plastics	2.0	3.84%	0.0	0.00%	0.9	1.73%	1.0	1.57%
9		PET Bottles	0.5	0.96%	0.3	0.37%	1.0	1.92%	0.6	0.97%
10		Other Plastics	0.5	0.96%	3.0	3.71%	2.5	4.81%	2.0	3.24%
11		<i>Subtotal-Plastics</i>	8.0	15.36%	7.6	9.41%	9.4	18.08%	8.3	13.52%
12	Rubber & Leather		0.4	0.67%	1.5	1.86%	0.1	0.19%	0.7	1.05%
13	Textiles		0.5	0.96%	2.0	2.48%	0.5	0.96%	1.0	1.62%
14	Yard Waste		2.0	3.84%	2.0	2.48%	0.5	0.96%	1.5	2.43%
15	Lumber & Logs		0.0	0.00%	2.0	2.48%	0.0	0.00%	0.7	1.08%
16	Other Org. Waste		0.0	0.00%	1.0	1.24%	0.0	0.00%	0.3	0.54%
	Organic Waste - Subtotal		47.7	91.46%	66.3	82.05%	47.8	91.92%	53.9	87.48%
17	Inorganic Waste									
18	Glass	Returnable Bottles	0.8	1.54%	0.0	0.00%	0.0	0.00%	0.3	0.43%
19		Other Live Bottles	0.2	0.38%	1.5	1.86%	0.7	1.35%	0.8	1.30%
20		Glass bins	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%
21		Broken Glass	0.1	0.10%	2.0	2.48%	0.2	0.38%	0.8	1.22%
22		<i>Glass-Subtotal</i>	1.1	2.02%	3.5	4.33%	0.9	1.73%	1.8	2.95%
23	Metals	Tin Cans (steel cans)	0.5	0.86%	2.0	2.48%	0.0	0.00%	0.8	1.33%
		Aluminum cans	0.2	0.38%	0.0	0.00%	0.0	0.00%	0.1	0.11%
		Copper	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%
		Other Metals	0.3	0.58%	4.0	4.95%	0.1	0.19%	1.5	2.38%
		<i>Metal-subtotal</i>	1.0	1.82%	6.0	7.43%	0.1	0.19%	2.4	3.81%
24	Dirt, Ash, Stone, Sand		2.0	3.84%	4.5	5.57%	3.2	6.15%	3.2	5.25%
	Inorganic Waste - Subtotal		4.0	7.68%	14.0	17.33%	4.2	8.08%	7.4	12.01%
25	Unclassified residual waste		0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%
	Domestic Hazardous Waste		0.5	0.86%	0.5	0.62%	0.0	0.00%	0.3	0.51%
26	Batteries - Dry Cells		0.4	0.77%	0.5	0.62%	0.0	0.00%	0.3	0.49%
27	Other Domestic Hazardous Waste		0.05	0.10%	0.0	0.00%	0.0	0.00%	0.0	0.03%
	Total weight		52.1	100.00%	80.8	100.00%	52.0	100.00%	61.6	100.00%
	Total volume		240		320		273		278	
	Bulk Density		0.217		0.253		0.190		0.222	

Table 1.1.20 Waste Composition Ratio (%) in Middle Income During Dry Season

Waste Composition			Day 1		Day 2		Day 3		Average	
			Weight (kgs)	Composition Ratio (%)						
1	Food Waste		44.0	67.38	38.5	71.16	54.0	76.70	45.5	71.09
2	Paper	Recyclable Paper	3.0	4.59	3.0	5.55	3.7	5.26	3.2	5.05
3		Recyclable Cardboard	0.5	0.77	0.0	0.00	0.0	0.00	0.2	0.26
4		Mixed Paper	3.0	4.59	0.0	0.00	0.0	0.00	1.0	1.56
5		Diapers	2.0	3.06	3.0	5.55	4.0	5.68	3.0	4.69
6		<i>Subtotal-Paper</i>	<i>8.5</i>	<i>13.02</i>	<i>6.0</i>	<i>11.09</i>	<i>7.7</i>	<i>10.94</i>	<i>7.4</i>	<i>11.56</i>
7	Plastics	Plastic Sheet	4.0	6.13	3.0	5.55	3.5	4.97	3.5	5.47
8		Recyclable Plastics	4.3	6.58	0.0	0.00	0.0	0.00	1.4	2.24
9		PET Bottles	0.5	0.77	0.5	0.92	0.4	0.50	0.5	0.70
10		Other Plastics	0.6	0.84	0.5	0.92	0.5	0.71	0.5	0.81
11		<i>Subtotal-Plastics</i>	<i>9.4</i>	<i>14.32</i>	<i>4.0</i>	<i>7.39</i>	<i>4.4</i>	<i>6.18</i>	<i>5.9</i>	<i>9.22</i>
12	Rubber & Leather		0.1	0.15	0.0	0.00	0.3	0.36	0.1	0.18
13	Textiles		0.5	0.69	1.0	1.85	0.5	0.71	0.0	0.00
14	Yard Waste		0.6	0.92	1.0	1.85	0.3	0.36	0.5	0.78
15	Lumber & Logs		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
16	Other Org. Waste		0.0	0.00	0.0	0.00	0.0	0.00	1.5	2.34
	<i>Organic Waste - Subtotal</i>		<i>63.0</i>	<i>96.48</i>	<i>50.5</i>	<i>93.35</i>	<i>67.1</i>	<i>95.24</i>	<i>60.9</i>	<i>95.18</i>
17	<i>Inorganic Waste</i>									
18	Glass	Returnable Bottles	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
19		Other Live Bottles	0.0	0.00	0.0	0.00	1.0	1.42	0.3	0.52
20		Glass bins	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
21		Broken Glass	0.9	1.38	0.7	1.20	0.5	0.71	0.7	1.07
22		<i>Glass-Subtotal</i>	<i>0.9</i>	<i>1.38</i>	<i>0.7</i>	<i>1.20</i>	<i>1.5</i>	<i>2.13</i>	<i>1.0</i>	<i>1.59</i>
23	Metals	Tin Cans (steel cans)	0.0	0.00	0.5	0.83	1.0	1.42	0.5	0.76
		Aluminum cans	0.0	0.00	0.3	0.55	0.0	0.00	0.1	0.16
		Copper	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Other Metals	0.6	0.92	0.0	0.00	0.0	0.00	0.2	0.31
		<i>Metal-subtotal</i>	<i>0.6</i>	<i>0.92</i>	<i>0.8</i>	<i>1.39</i>	<i>1.0</i>	<i>1.42</i>	<i>0.8</i>	<i>1.22</i>
24	Dirt, Ash, Stone, Sand		0.4	0.61	1.0	1.85	0.5	0.71	0.6	0.99
	<i>Inorganic Waste - Subtotal</i>		<i>1.9</i>	<i>2.91</i>	<i>2.4</i>	<i>4.44</i>	<i>3.0</i>	<i>4.26</i>	<i>2.4</i>	<i>3.80</i>
25	<i>Unclassified residual waste</i>		<i>0.0</i>	<i>0.00</i>	<i>0.5</i>	<i>0.92</i>	<i>0.2</i>	<i>0.28</i>	<i>0.2</i>	<i>0.36</i>
	<i>Domestic Hazardous Waste</i>		<i>0.4</i>	<i>0.61</i>	<i>0.7</i>	<i>1.29</i>	<i>0.2</i>	<i>0.21</i>	<i>0.4</i>	<i>0.65</i>
26	Batteries - Dry Cells		0.4	0.61	0.40	0.74	0.2	0.21	0.3	0.49
27	Other Domestic Hazardous Waste		0.0	0.00	0.30	0.55	0.0	0.00	0.1	0.16
	<i>Total weight</i>		<i>65.3</i>	<i>100.00</i>	<i>54.1</i>	<i>100.00</i>	<i>70.4</i>	<i>100.00</i>	<i>64.0</i>	<i>100.00</i>
	<i>Total volume</i>		<i>250</i>		<i>250</i>		<i>293</i>		<i>264</i>	
	<i>Bulk Density</i>		<i>0.261</i>		<i>0.216</i>		<i>0.240</i>		<i>0.242</i>	

Table 1.1.21 Waste Composition Ratio (%) in Low Middle Income During Wet Season

Waste Composition			Day 1		Day 2		Day 3		Average	
			Weight (kgs)	Composition Ratio (%)						
1	Food Waste		25.0	63.58	22.0	67.07	27.5	76.07	24.8	68.81
2	Paper	Recyclable Paper	2.0	5.09	1.5	4.57	1.5	4.15	1.7	4.62
3		Recyclable Cardboard	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
4		Mixed Paper	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
5		Diapers	3.5	8.90	3.0	9.15	2.0	5.53	2.8	7.85
6		Subtotal-Paper	5.5	13.99	4.5	13.72	3.5	9.68	4.5	12.47
7	Plastics	Plastic Sheet	2.0	5.09	3.5	10.67	2.0	5.53	2.5	6.93
8		Recyclable Plastics	1.5	3.81	0.4	1.22	1.0	2.77	1.0	2.68
9		PET Bottles	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
10		Other Plastics	0.0	0.00	0.5	1.37	0.1	0.28	0.2	0.51
11		Subtotal-Plastics	3.5	8.90	4.4	13.26	3.1	8.58	3.7	10.11
12	Rubber & Leather		0.0	0.00	0.3	0.91	0.1	0.28	0.1	0.37
13	Textiles		0.3	0.76	0.1	0.30	0.5	1.38	0.3	0.83
14	Yard Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
15	Lumber & Logs		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
16	Other Org. Waste		0.5	1.27	0.2	0.46	0.0	0.00	0.2	0.60
	Organic Waste - Subtotal		34.8	88.50	31.4	95.73	34.7	95.99	33.6	93.19
17	Inorganic Waste									
18	Glass	Returnable Bottles	1.0	2.54	0.1	0.30	0.3	0.69	0.5	1.25
19		Other Live Bottles	0.5	1.27	0.0	0.00	0.0	0.00	0.2	0.46
20		Glass bins	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
21		Broken Glass	0.0	0.00	0.4	1.07	0.4	0.97	0.2	0.65
22		Glass-Subtotal	1.5	3.81	0.5	1.37	0.6	1.66	0.9	2.36
23	Metals	Tin Cans (steel cans)	0.3	0.64	0.0	0.00	0.1	0.28	0.1	0.32
		Aluminum cans	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Copper	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Other Metals	0.7	1.78	0.4	1.07	0.2	0.55	0.4	1.15
		Metal-subtotal	1.0	2.42	0.4	1.07	0.3	0.83	0.5	1.48
24	Dirt, Ash, Stone, Sand		1.7	4.20	0.2	0.61	0.2	0.41	0.7	1.85
	Inorganic Waste - Subtotal		4.1	10.43	1.0	3.05	1.1	2.90	2.1	5.68
25	Unclassified residual waste		0.4	1.02	0.0	0.00	0.0	0.00	0.1	0.37
	Domestic Hazardous Waste		0.0	0.05	0.4	1.22	0.4	1.11	0.3	0.76
26	Batteries - Dry Cells		0.02	0.05	0.1	0.15	0.05	0.14	0.0	0.11
27	Other Domestic Hazardous Waste		0	0.00	0.4	1.07	0.35	0.97	0.2	0.65
	Total weight		39.3	100.00	32.8	100.00	36.2	100.00	36.1	100.00
	Total volume		170		100		110		127	
	Bulk Density		0.231		0.328		0.329		0.285	

Table 1.1.22 Waste Composition Ratio (%) in Low Middle Income During Dry Season

Waste Composition			Day 1		Day 2		Day 3		Average	
			Weight (kgs)	Composition Ratio (%)						
1	Food Waste		32.0	64.45	27.5	56.09	28.5	69.85	29.3	61.25
2	Paper	Recyclable Paper	2.0	4.03	2	4.08	0	0.00	1.3	2.78
3		Recyclable Cardboard	1.0	2.01	0	0.00	0	0.00	0.3	0.70
4		Mixed Paper	0.0	0.00	0	0.00	0	0.00	0.0	0.00
5		Diapers	10.0	20.14	7	14.28	8	19.61	8.3	17.40
6		Subtotal-Paper	13.0	26.18	9.0	18.36	8.0	19.61	10.0	20.88
7	Plastics	Plastic Sheet	0	0.00	0.25	0.51	2.5	6.13	0.9	1.91
8		Recyclable Plastics	3	6.04	8	16.32	0.1	0.25	3.7	7.73
9		PET Bottles	0.2	0.40	0	0.00	0.05	0.12	0.1	0.17
10		Other Plastics	0.2	0.40	0.275	0.56	0.15	0.37	0.2	0.44
11		Subtotal-Plastics	3.4	6.85	8.5	17.39	2.8	6.86	4.9	10.25
12	Rubber & Leather		0.25	0.50	0.75	1.53	0.1	0.25	0.4	0.77
13	Textiles		0.5	1.01	0.15	0.31	0	0.00	0.0	0.00
14	Yard Waste		0	0.00	0	0.00	0	0.00	0.5	1.04
15	Lumber & Logs		0	0.00	0	0.00	0	0.00	0.0	0.00
16	Other Org. Waste		0.25	0.50	0.9	1.84	0	0.00	1.5	3.13
	Organic Waste - Subtotal		49.4	99.50	46.8	95.51	39.4	96.57	46.6	97.32
17	Inorganic Waste									
18	Glass	Returnable Bottles	0	0.00	0	0.00	0	0.00	0.0	0.00
19		Other Live Bottles	0	0.00	0	0.00	0.45	1.10	0.2	0.31
20		Glass bins	0	0.00	0	0.00	0	0.00	0.0	0.00
21		Broken Glass	0.05	0.10	0.3	0.61	0.3	0.74	0.2	0.45
22		Glass-Subtotal	0.1	0.10	0.3	0.61	0.8	1.84	0.4	0.77
23	Metals	Tin Cans (steel cans)	0	0.00	0	0.00	0	0.00	0.0	0.00
		Aluminum cans	0.1	0.20	0	0.00	0	0.00	0.0	0.07
		Copper	0	0.00	0	0.00	0	0.00	0.0	0.00
		Other Metals	0	0.00	0.15	0.31	0.05	0.12	0.1	0.14
		Metal-subtotal	0.1	0.20	0.2	0.31	0.1	0.12	0.1	0.21
24	Dirt, Ash, Stone, Sand		0.0	0.00	1.8	3.57	0.6	1.47	0.8	1.64
	Inorganic Waste - Subtotal		0.2	0.30	2.2	4.49	1.4	3.43	1.3	2.61
25	Unclassified residual waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
	Domestic Hazardous Waste		0.1	0.20	0.0	0.00	0.0	0.00	0.0	0.07
26	Batteries - Dry Cells		0.1	0.20	0.00	0.00	0.0	0.00	0.0	0.07
27	Other Domestic Hazardous Waste		0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00
	Total weight		49.7	100.00	49.0	100.00	40.8	100.00	47.9	100.00
	Total volume		160		146		139		148	
	Bulk Density		0.310		0.336		0.294		0.323	

Table 1.1.23 Waste Composition Ratio (%) in Low Income During Wet Season

Waste Composition			Day 1		Day 2		Day 3		Average	
			Weight (kgs)	Composition Ratio (%)						
1	Food Waste		18.5	71.26	13	61.52	10	67.29	13.8	66.99
2	Paper	Recyclable Paper	0.9	3.47	0.7	3.31	0.95	6.39	0.9	4.12
3		Recyclable Cardboard	0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
4		Mixed Paper	0.65	2.50	0.65	3.08	0.35	2.36	0.6	2.66
5		Diapers	0.4	1.54	1.9	8.99	0.6	4.04	1.0	4.68
6		Subtotal-Paper	2.0	7.51	3.3	15.38	1.9	12.79	2.4	11.46
7	Plastics	Plastic Sheet	2.65	10.21	1.85	8.76	1.3	8.75	1.9	9.36
8		Recyclable Plastics	0.19	0.73	0.4	1.89	0.3	2.02	0.3	1.44
9		PET Bottles	0.16	0.62	0.25	1.18	0.025	0.17	0.1	0.70
10		Other Plastics	0.05	0.19	0.55	2.60	0.01	0.07	0.2	0.98
11		Subtotal-Plastics	3.1	11.75	3.1	14.43	1.6	11.00	2.6	12.49
12	Rubber & Leather		0.02	0.08	0.2	0.95	0.03	0.20	0.1	0.40
13	Textiles		0.6	2.31	0.23	1.09	0.15	1.01	0.3	1.58
14	Yard Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
15	Lumber & Logs		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
16	Other Org. Waste		0.3	1.16	0.4	1.89	0.08	0.54	0.3	1.26
	Organic Waste - Subtotal		24.4	94.07	20.1	95.27	13.8	92.83	19.4	94.18
17	Inorganic Waste									
18	Glass	Returnable Bottles	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
19		Other Live Bottles	0.9	3.47	0.0	0.00	0.0	0.00	0.3	1.45
20		Glass bins	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
21		Broken Glass	0.0	0.00	0.35	1.66	0.0	0.00	0.1	0.56
22		Glass-Subtotal	0.9	3.47	0.4	1.66	0.0	0.00	0.4	2.02
23	Metals	Tin Cans (steel cans)	0.3	1.25	0.6	2.84	0.0	0.00	0.3	1.49
		Aluminum cans	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Copper	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Other Metals	0.0	0.00	0.0	0.00	0.025	0.17	0.0	0.04
		Metal-subtotal	0.3	1.25	0.6	2.84	0.0	0.17	0.3	1.53
24	Dirt, Ash, Stone, Sand		0.2	0.83	0.0	0.00	0.75	5.05	0.3	1.56
	Inorganic Waste - Subtotal		1.4	5.55	1.0	4.50	0.8	5.22	1.1	5.11
25	Unclassified residual waste		0.0	0.00	0.0	0.00	0.1	0.87	0.0	0.21
	Domestic Hazardous Waste		0.1	0.39	0.1	0.24	0.2	1.08	0.1	0.50
26	Batteries - Dry Cells		0.1	0.39	0.0	0.00	0.16	1.08	0.1	0.42
27	Other Domestic Hazardous Waste		0	0.00	0.1	0.24	0	0.00	0.0	0.08
	Total weight		26.0	100.00	21.1	100.00	14.9	100.00	20.7	100.00
	Total volume		132		108		79		106	
	Bulk Density		0.197		0.196		0.188		0.194	

Table 1.1.24 Waste Composition Ratio (%) in Low Income During Dry Season

Waste Composition		Day 1		Day 2		Day 3		Average		
		Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	
1	Food Waste	18.15	58.64	5.00	45.25	9.00	62.72	10.7	53.90	
2	Paper	Recyclable Paper	0.00	0.00	0.50	4.52	0.35	2.44	0.3	1.42
3		Recyclable Cardboard	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4		Mixed Paper	3.00	9.69	0.60	5.43	0.30	2.09	1.3	6.54
5		Diapers	3.00	9.69	2.00	18.10	1.45	10.10	2.2	10.81
6		<i>Subtotal-Paper</i>	<i>6.0</i>	<i>19.39</i>	<i>3.1</i>	<i>28.05</i>	<i>2.1</i>	<i>14.63</i>	<i>3.7</i>	<i>18.78</i>
7	Plastics	Plastic Sheet	4.00	12.92	2.50	22.62	1.50	10.45	2.7	13.41
8		Recyclable Plastics	0.40	1.29	0.05	0.45	0.20	1.39	0.2	1.09
9		PET Bottles	0.15	0.48	0.00	0.00	0.20	1.39	0.1	0.59
10		Other Plastics	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00
11		<i>Subtotal-Plastics</i>	<i>4.6</i>	<i>14.70</i>	<i>2.6</i>	<i>23.08</i>	<i>1.9</i>	<i>13.24</i>	<i>3.0</i>	<i>15.09</i>
12	Rubber & Leather		0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00
13	Textiles		1.50	4.85	0.20	1.81	0.35	2.44	0.0	0.00
14	Yard Waste		0.00	0.00	0.00	0.00	0.00	0.00	0.5	2.51
15	Lumber & Logs		0.10	0.32	0.00	0.00	0.00	0.00	0.0	0.17
16	Other Org. Waste		0.50	1.62	0.15	1.36	0.00	0.00	1.5	7.54
	<i>Organic Waste - Subtotal</i>		<i>30.8</i>	<i>99.52</i>	<i>11.0</i>	<i>99.55</i>	<i>13.4</i>	<i>93.03</i>	<i>19.5</i>	<i>97.99</i>
17	<i>Inorganic Waste</i>									
18	Glass	Returnable Bottles	0.05	0.16	0.00	0.00	0.00	0.00	0.0	0.08
19		Other Live Bottles	0.00	0.00	0.05	0.45	0.10	0.70	0.1	0.25
20		Glass bins	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00
21		Broken Glass	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00
22		<i>Glass-Subtotal</i>	<i>0.1</i>	<i>0.16</i>	<i>0.1</i>	<i>0.45</i>	<i>0.1</i>	<i>0.70</i>	<i>0.1</i>	<i>0.34</i>
23	Metals	Tin Cans (steel cans)	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00
		Aluminum cans	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00
		Copper	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00
		Other Metals	0.00	0.00	0.00	0.00	0.10	0.70	0.0	0.17
		<i>Metal-subtotal</i>	<i>0.0</i>	<i>0.00</i>	<i>0.0</i>	<i>0.00</i>	<i>0.1</i>	<i>0.70</i>	<i>0.0</i>	<i>0.17</i>
24	Dirt, Ash, Stone, Sand		0.0	0.00	0.0	0.00	0.75	5.23	0.3	1.26
	<i>Inorganic Waste - Subtotal</i>		<i>0.1</i>	<i>0.16</i>	<i>0.1</i>	<i>0.45</i>	<i>1.0</i>	<i>6.62</i>	<i>0.4</i>	<i>1.76</i>
25	<i>Unclassified residual waste</i>		<i>0.0</i>	<i>0.00</i>	<i>0.0</i>	<i>0.00</i>	<i>0.1</i>	<i>0.35</i>	<i>0.0</i>	<i>0.08</i>
	<i>Domestic Hazardous Waste</i>		<i>0.1</i>	<i>0.32</i>	<i>0.0</i>	<i>0.00</i>	<i>0.0</i>	<i>0.00</i>	<i>0.0</i>	<i>0.17</i>
26	Batteries - Dry Cells		0.1	0.32	0.00	0.00	0.0	0.00	0.0	0.17
27	Other Domestic Hazardous Waste		0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00
	<i>Total weight</i>		<i>31.0</i>	<i>100.00</i>	<i>11.1</i>	<i>100.00</i>	<i>14.4</i>	<i>100.00</i>	<i>19.9</i>	<i>100.00</i>
	<i>Total volume</i>		<i>132</i>		<i>53</i>		<i>59</i>		<i>81</i>	
	<i>Bulk Density</i>		<i>0.234</i>		<i>0.208</i>		<i>0.243</i>		<i>0.244</i>	

Table 1.1.25 Waste Composition Ratio (%) in Slum During Wet Season

Waste Composition		Day 1		Day 2		Day 3		Average		
		Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	
1	Food Waste	14.00	46.79	8.00	41.03	11.00	54.05	11.0	47.30	
2	Paper	Recyclable Paper	2.50	8.36	0.90	4.62	0.40	1.97	1.3	5.45
3		Recyclable Cardboard	0.00	0.00	0.10	0.51	0.10	0.49	0.1	0.29
4		Mixed Paper	0.03	0.08	0.50	2.56	0.40	1.97	0.3	1.33
5		Diapers	0.03	0.08	0.10	0.51	0.10	0.49	0.1	0.32
6		Subtotal-Paper	2.6	8.52	1.6	8.21	1.0	4.91	1.7	7.38
7	Plastics	Plastic Sheet	2.50	8.36	0.95	4.87	1.20	5.90	1.6	6.66
8		Recyclable Plastics	0.65	2.17	0.00	0.00	0.00	0.00	0.2	0.93
9		PET Bottles	0.00	0.00	0.10	0.51	0.05	0.25	0.1	0.21
10		Other Plastics	0.85	2.84	0.65	3.33	1.25	6.14	0.9	3.94
11		Subtotal-Plastics	4.0	13.37	1.7	8.72	2.5	12.29	2.7	11.75
12	Rubber & Leather		0.00	0.00	1.50	7.69	0.45	2.21	0.7	2.79
13	Textiles		0.00	0.00	0.45	2.31	0.35	1.72	0.3	1.15
14	Yard Waste		1.00	3.34	0.15	0.77	0.90	4.42	0.7	2.94
15	Lumber & Logs		1.50	5.01	0.25	1.28	0.20	0.98	0.7	2.79
16	Other Org. Waste		0.50	1.67	0.00	0.00	0.00	0.00	0.2	0.72
	Organic Waste - Subtotal		23.6	78.71	13.7	70.00	16.4	80.59	17.9	76.82
17	Inorganic Waste									
18	Glass	Returnable Bottles	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00
19		Other Live Bottles	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00
20		Glass bins	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00
21		Broken Glass	1.00	3.34	0.10	0.51	0.35	1.72	0.5	2.08
22		Glass-Subtotal	1.0	3.34	0.1	0.51	0.4	1.72	0.5	2.08
23	Metals	Tin Cans (steel cans)	0.00	0.00	0.15	0.77	0.00	0.00	0.1	0.21
		Aluminum cans	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00
		Copper	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00
		Other Metals	0.30	1.00	0.00	0.00	0.05	0.25	0.1	0.50
		Metal-subtotal	0.3	1.00	0.2	0.77	0.1	0.25	0.2	0.72
24	Dirt, Ash, Stone, Sand		5.0	16.71	5.5	28.21	3.5	17.20	4.7	20.07
	Inorganic Waste - Subtotal		6.3	21.06	5.8	29.49	3.9	19.16	5.3	22.86
25	Unclassified residual waste		0.0	0.00	0.0	0.00	0.1	0.25	0.0	0.07
	Domestic Hazardous Waste		0.1	0.23	0.1	0.51	0.0	0.00	0.1	0.24
26	Batteries - Dry Cells		0.07	0.23	0.1	0.51	0	0.00	0.1	0.24
27	Other Domestic Hazardous Waste		0	0.00	0.0	0.00	0	0.00	0.0	0.00
	Total weight		29.9	100.00	19.5	100.00	20.4	100.00	23.3	100.00
	Total volume		106		66		115		96	
	Bulk Density		0.282		0.295		0.177		0.243	

Table 1.1.26 Waste Composition Ratio (%) in Slum During Dry Season

Waste Composition		Day 1		Day 2		Day 3		Average		
		Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	
1	Food Waste	20	69.93	18	49.38	20	67.57	19.3	59.30	
2	Paper	Recyclable Paper	0.85	2.97	4.5	12.35	0.25	0.84	1.9	5.73
3		Recyclable Cardboard	0.1	0.35	0.45	1.23	0.3	1.01	0.3	0.87
4		Mixed Paper	0.35	1.22	0.4	1.10	0.4	1.35	0.4	1.18
5		Diapers	0.8	2.80	1.45	3.98	0.4	1.35	0.9	2.71
6		<i>Subtotal-Paper</i>	<i>2.1</i>	<i>7.34</i>	<i>6.8</i>	<i>18.66</i>	<i>1.4</i>	<i>4.56</i>	<i>3.4</i>	<i>10.48</i>
7	Plastics	Plastic Sheet	1.6	5.59	2.4	6.58	1.8	6.08	1.9	5.93
8		Recyclable Plastics	0.0	0.00	1.2	3.29	0.4	1.35	0.5	1.64
9		PET Bottles	0.1	0.35	0.05	0.14	0.05	0.17	0.1	0.20
10		Other Plastics	0.65	2.27	0.0	0.00	0.15	0.51	0.3	0.82
11		<i>Subtotal-Plastics</i>	<i>2.4</i>	<i>8.22</i>	<i>3.7</i>	<i>10.01</i>	<i>2.4</i>	<i>8.11</i>	<i>2.8</i>	<i>8.59</i>
12	Rubber & Leather		0.1	0.35	0.5	1.37	0.45	1.52	0.4	1.07
13	Textiles		0.55	1.92	0.9	2.47	0.6	2.03	0.0	0.00
14	Yard Waste		0.1	0.35	0.0	0.00	0.0	0.00	0.5	1.53
15	Lumber & Logs		0.15	0.52	0.3	0.82	0.15	0.51	0.2	0.61
16	Other Org. Waste		0.2	0.70	0.4	1.10	0.1	0.34	1.5	4.60
	<i>Organic Waste - Subtotal</i>		<i>25.6</i>	<i>89.34</i>	<i>30.6</i>	<i>83.81</i>	<i>25.1</i>	<i>84.63</i>	<i>28.1</i>	<i>86.20</i>
17	<i>Inorganic Waste</i>									
18	Glass	Returnable Bottles	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
19		Other Live Bottles	0.0	0.00	0.0	0.00	0.25	0.84	0.1	0.26
20		Glass bins	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
21		Broken Glass	0.0	0.00	0.0	0.00	0.1	0.34	0.0	0.10
22		<i>Glass-Subtotal</i>	<i>0.0</i>	<i>0.00</i>	<i>0.0</i>	<i>0.00</i>	<i>0.4</i>	<i>1.18</i>	<i>0.1</i>	<i>0.36</i>
23	Metals	Tin Cans (steel cans)	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Aluminum cans	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Copper	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Other Metals	0.1	0.35	0.35	0.96	0.15	0.51	0.2	0.61
		<i>Metal-subtotal</i>	<i>0.1</i>	<i>0.35</i>	<i>0.4</i>	<i>0.96</i>	<i>0.2</i>	<i>0.51</i>	<i>0.2</i>	<i>0.61</i>
24	Dirt, Ash, Stone, Sand		2.5	8.74	5.5	15.09	4.00	13.51	4.0	12.27
	<i>Inorganic Waste - Subtotal</i>		<i>2.6</i>	<i>9.09</i>	<i>5.9</i>	<i>16.05</i>	<i>4.5</i>	<i>15.20</i>	<i>4.3</i>	<i>13.24</i>
25	<i>Unclassified residual waste</i>		<i>0.3</i>	<i>0.87</i>	<i>0.1</i>	<i>0.14</i>	<i>0.0</i>	<i>0.00</i>	<i>0.1</i>	<i>0.31</i>
	<i>Domestic Hazardous Waste</i>		<i>0.2</i>	<i>0.70</i>	<i>0.0</i>	<i>0.00</i>	<i>0.1</i>	<i>0.17</i>	<i>0.1</i>	<i>0.26</i>
26	Batteries - Dry Cells		0.2	0.70	0.00	0.00	0.1	0.17	0.1	0.26
27	Other Domestic Hazardous Waste		0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00
	<i>Total weight</i>		<i>28.6</i>	<i>100.00</i>	<i>36.5</i>	<i>100.00</i>	<i>29.6</i>	<i>100.00</i>	<i>32.6</i>	<i>100.00</i>
	<i>Total volume</i>		<i>111</i>		<i>145</i>		<i>127</i>		<i>128</i>	
	<i>Bulk Density</i>		<i>0.258</i>		<i>0.251</i>		<i>0.233</i>		<i>0.255</i>	

Table 1.1.27 Waste Composition Ratio (%) in Shops During Dry Season

Waste Composition			Day 1		Day 2		Day 3		Average	
			Weight (kgs)	Composition Ratio (%)						
1	Food Waste		13	40.12	5.0	18.66	8.5	26.81	8.8	29.15
2	Paper	Recyclable Paper	5	15.43	4.0	14.93	6.5	20.50	5.2	17.05
3		Recyclable Cardboard	2.5	7.72	0.0	0.00	0.0	0.00	0.8	2.75
4		Mixed Paper	0	0.00	1.5	5.60	0.8	2.52	0.8	2.53
5		Diapers	0	0.00	0.5	1.87	0.0	0.00	0.2	0.55
6		Subtotal-Paper	7.5	23.15	6.0	22.39	7.3	23.03	6.9	22.88
7	Plastics	Plastic Sheet	0	0.00	0.8	2.99	0.5	1.58	0.4	1.43
8		Recyclable Plastics	2	6.17	3.0	11.19	2.5	7.89	2.5	8.25
9		PET Bottles	1.5	4.63	1.0	3.73	1.0	3.15	1.2	3.85
10		Other Plastics	2.2	6.79	1.6	5.97	1.2	3.79	1.7	5.50
11		Subtotal-Plastics	5.7	17.59	6.4	23.88	5.2	16.40	5.8	19.03
12	Rubber & Leather		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
13	Textiles		0.0	0.00	0.8	2.99	1.0	3.15	0.6	1.98
14	Yard Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
15	Lumber & Logs		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
16	Other Org. Waste		0.0	0.00	0.0	0.00	1.5	4.73	0.5	1.65
	Organic Waste - Subtotal		26.2	80.86	18.2	67.91	23.5	74.13	22.6	74.70
17	Inorganic Waste									
18	Glass	Returnable Bottles	1.8	5.56	2.8	10.45	2.0	6.31	2.2	7.26
19		Other Live Bottles	0	0.00	0.0	0.00	1.0	3.15	0.3	1.10
20		Glass bins	0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
21		Broken Glass	2.5	7.72	1.0	3.73	2.0	6.31	1.8	6.05
22		Glass-Subtotal	4.3	13.27	3.8	14.18	5.0	15.77	4.4	14.41
23	Metals	Tin Cans (steel cans)	0.5	1.54	0.5	1.87	0.8	2.52	0.6	1.98
		Aluminum cans	0.4	1.23	1.3	4.85	0.5	1.58	0.7	2.42
		Copper	0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Other Metals	0	0.00	0.0	0.00	0.2	0.63	0.1	0.22
		Metal-subtotal	0.9	2.78	1.8	6.72	1.5	4.73	1.4	4.62
24	Dirt, Ash, Stone, Sand		0.8	2.47	2.0	7.46	0.5	1.58	1.1	3.63
	Inorganic Waste - Subtotal		6.0	18.52	7.6	28.36	7.0	22.08	6.9	22.66
25	Unclassified residual waste		0.0	0.00	1.0	3.73	1.2	3.79	0.7	2.42
	Domestic Hazardous Waste		0.2	0.62	0.0	0.00	0.0	0.00	0.1	0.22
26	Batteries - Dry Cells		0.2	0.62	0.0	0.00	0.0	0.00	0.1	0.22
27	Other Domestic Hazardous Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
	Total weight		32.4	100.00	26.8	100.00	31.7	100.00	30.3	100.00
	Total volume		280		300		320		300	
	Bulk Density		0.116		0.089		0.099		0.101	

Table 1.1.28 Waste Composition Ratio (%) in Shops During Wet Season

Waste Composition		Day 1		Day 2		Day 3		Average		
		Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	
1	Food Waste	24.0	62.02	28.0	57.97	24.5	54.08	25.5	57.82	
2	Paper	Recyclable Paper	4.0	10.34	3.8	7.87	8.0	17.66	5.3	11.94
3		Recyclable Cardboard	0.5	1.29	1.2	2.48	2.3	5.08	1.3	3.02
4		Mixed Paper	0.0	0.00	0.0	0.00	0.8	1.77	0.3	0.60
5		Diapers	0.0	0.00	0.5	1.04	0.0	0.00	0.2	0.38
6		<i>Subtotal-Paper</i>	<i>4.5</i>	<i>11.63</i>	<i>5.5</i>	<i>11.39</i>	<i>11.1</i>	<i>24.50</i>	<i>7.0</i>	<i>15.95</i>
7	Plastics	Plastic Sheet	1.5	3.88	0.8	1.66	0.5	1.10	0.9	2.12
8		Recyclable Plastics	2.0	5.17	3.0	6.21	2.5	5.52	2.5	5.67
9		PET Bottles	1.0	2.58	1.0	2.07	0.9	1.99	1.0	2.19
10		Other Plastics	1.2	3.10	1.6	3.31	0.5	1.10	1.1	2.49
11		<i>Subtotal-Plastics</i>	<i>5.7</i>	<i>14.73</i>	<i>6.4</i>	<i>13.25</i>	<i>4.4</i>	<i>9.71</i>	<i>5.5</i>	<i>12.47</i>
12	Rubber & Leather		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
13	Textiles		0.5	1.29	0.5	1.04	0.0	0.00	0.0	0.00
14	Yard Waste		1.5	3.88	1.5	3.11	0.5	1.10	0.5	1.13
15	Lumber & Logs		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
16	Other Org. Waste		0.0	0.00	0.0	0.00	1.5	3.31	1.5	3.40
	<i>Organic Waste - Subtotal</i>		<i>36.2</i>	<i>93.54</i>	<i>41.9</i>	<i>86.75</i>	<i>42.0</i>	<i>92.72</i>	<i>40.0</i>	<i>90.78</i>
17	<i>Inorganic Waste</i>									
18	Glass	Returnable Bottles	0.8	2.07	0.8	1.66	0.0	0.00	0.5	1.21
19		Other Live Bottles	0.0	0.00	0.0	0.00	1.0	2.21	0.3	0.76
20		Glass bins	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
21		Broken Glass	0.5	1.29	2.0	4.14	0.3	0.66	0.9	2.12
22		<i>Glass-Subtotal</i>	<i>1.3</i>	<i>3.36</i>	<i>2.8</i>	<i>5.80</i>	<i>1.3</i>	<i>2.87</i>	<i>1.8</i>	<i>4.08</i>
23	Metals	Tin Cans (steel cans)	0.5	1.29	0.5	1.04	0.5	1.10	0.5	1.13
		Aluminum cans	0.2	0.52	1.0	2.07	0.8	1.77	0.7	1.51
		Copper	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Other Metals	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		<i>Metal-subtotal</i>	<i>0.7</i>	<i>1.81</i>	<i>1.5</i>	<i>3.11</i>	<i>1.3</i>	<i>2.87</i>	<i>1.2</i>	<i>2.65</i>
24	Dirt, Ash, Stone, Sand		0.5	1.29	1.6	3.31	0.2	0.44	0.8	1.74
	<i>Inorganic Waste - Subtotal</i>		<i>2.5</i>	<i>6.46</i>	<i>5.9</i>	<i>12.22</i>	<i>2.8</i>	<i>6.18</i>	<i>3.7</i>	<i>8.47</i>
25	<i>Unclassified residual waste</i>		<i>0.0</i>	<i>0.00</i>	<i>0.5</i>	<i>1.04</i>	<i>0.5</i>	<i>1.10</i>	<i>0.3</i>	<i>0.76</i>
	<i>Domestic Hazardous Waste</i>		<i>0.0</i>	<i>0.00</i>	<i>0.0</i>	<i>0.00</i>	<i>0.0</i>	<i>0.00</i>	<i>0.0</i>	<i>0.00</i>
26	Batteries - Dry Cells		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
27	Other Domestic Hazardous Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
	<i>Total weight</i>		<i>38.7</i>	<i>100.00</i>	<i>48.3</i>	<i>100.00</i>	<i>45.3</i>	<i>100.00</i>	<i>44.1</i>	<i>100.00</i>
	<i>Total volume</i>		<i>210</i>		<i>235</i>		<i>255</i>		<i>233</i>	
	<i>Bulk Density</i>		<i>0.184</i>		<i>0.206</i>		<i>0.178</i>		<i>0.189</i>	

Table 1.1.29 Waste Composition Ratio (%) in Restaurants During Dry Season

Waste Composition			Day 1		Day 2		Day 3		Average	
			Weight (kgs)	Composition Ratio (%)						
1	Food Waste		88.0	88.00	86.3	85.19	80.5	81.40	84.9	84.88
2	Paper	Recyclable Paper	2.5	2.50	2.6	2.57	1.2	1.21	2.1	2.10
3		Recyclable Cardboard	1.3	1.30	1.1	1.09	1.5	1.52	1.3	1.30
4		Mixed Paper	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
5		Diapers	0.0	0.00	0.5	0.49	0.0	0.00	0.2	0.17
6		Subtotal-Paper	3.8	3.80	4.2	4.15	2.7	2.73	3.6	3.56
7	Plastics	Plastic Sheet	0.8	0.80	0.7	0.69	1.4	1.42	1.0	0.97
8		Recyclable Plastics	2.5	2.50	2.8	2.76	3.4	3.44	2.9	2.90
9		PET Bottles	2.2	2.20	2.6	2.57	2.5	2.53	2.4	2.43
10		Other Plastics	0.0	0.00	0.6	0.59	0.5	0.51	0.4	0.37
11		Subtotal-Plastics	5.5	5.50	6.7	6.61	7.8	7.89	6.7	6.66
12	Rubber & Leather		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
13	Textiles		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
14	Yard Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
15	Lumber & Logs		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
16	Other Org. Waste		0.0	0.00	0.0	0.00	0.2	0.20	0.1	0.07
	Organic Waste - Subtotal		97.3	97.30	97.2	95.95	91.2	92.21	95.2	95.17
17	Inorganic Waste									
18	Glass	Returnable Bottles	0.3	0.30	1.1	1.09	5.2	5.26	2.2	2.20
19		Other Live Bottles	0.0	0.00	0.0	0.00	0.5	0.51	0.2	0.17
20		Glass bins	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
21		Broken Glass	0.5	0.50	0.5	0.49	0.0	0.00	0.3	0.33
22		Glass-Subtotal	0.8	0.80	1.6	1.58	5.7	5.76	2.7	2.70
23	Metals	Tin Cans (steel cans)	0.6	0.60	0.7	0.69	0.0	0.00	0.4	0.43
		Aluminum cans	1.3	1.30	1.8	1.78	1.5	1.52	1.5	1.53
		Copper	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Other Metals	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Metal-subtotal	1.9	1.90	2.5	2.47	1.5	1.52	2.0	1.97
24	Dirt, Ash, Stone, Sand		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
	Inorganic Waste - Subtotal		2.7	2.70	4.1	4.05	7.2	7.28	4.7	4.66
25	Unclassified residual waste		0.0	0.00	0.0	0.00	0.5	0.51	0.2	0.17
	Domestic Hazardous Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
26	Batteries - Dry Cells		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
27	Other Domestic Hazardous Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
	Total weight		100.0	100.00	101.3	100.00	98.9	100.00	100.1	100.00
	Total volume		0.307		0.297		0.260		0.288	
	Bulk Density		326.3		340.7		380.7		347.6	

Table 1.1.30 Waste Composition Ratio (%) in Restaurants During Wet Season

Waste Composition		Day 1		Day 2		Day 3		Average	
		Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)
1	Food Waste	126.0	94.45	116.0	91.92	102.0	94.53	114.7	92.10
2	Paper	Recyclable Paper	0.0	0.00	0.0	0.00	0.0	0.0	0.00
3		Recyclable Cardboard	0.0	0.00	0.0	0.00	0.0	0.0	0.00
4		Mixed Paper	0.0	0.00	0.0	0.00	0.0	0.0	0.00
5		Diapers	0.0	0.00	0.5	0.40	0.0	0.00	0.2
6		<i>Subtotal-Paper</i>	<i>0.0</i>	<i>0.00</i>	<i>0.5</i>	<i>0.40</i>	<i>0.0</i>	<i>0.00</i>	<i>0.2</i>
7	Plastics	Plastic Sheet	0.7	0.52	1.2	0.95	1.6	1.48	1.2
8		Recyclable Plastics	3.5	2.62	4.2	3.33	2.8	2.59	3.5
9		PET Bottles	1.2	0.90	2.1	1.66	0.5	0.46	1.3
10		Other Plastics	0.0	0.00	0.6	0.48	0.5	0.46	0.4
11		<i>Subtotal-Plastics</i>	<i>5.4</i>	<i>4.05</i>	<i>8.1</i>	<i>6.42</i>	<i>5.4</i>	<i>5.00</i>	<i>6.3</i>
12	Rubber & Leather		0.0	0.00	0.0	0.00	0.0	0.00	0.00
13	Textiles		0.0	0.00	0.0	0.00	0.0	0.00	0.00
14	Yard Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.5
15	Lumber & Logs		0.0	0.00	0.0	0.00	0.0	0.00	0.00
16	Other Org. Waste		0.0	0.00	0.0	0.00	0.0	0.00	1.5
	<i>Organic Waste - Subtotal</i>		<i>131.4</i>	<i>98.50</i>	<i>124.6</i>	<i>98.73</i>	<i>107.4</i>	<i>99.54</i>	<i>123.1</i>
	<i>98.90</i>								
17	<i>Inorganic Waste</i>								
18	Glass	Returnable Bottles	0.0	0.00	0.0	0.00	0.0	0.00	0.00
19		Other Live Bottles	0.0	0.00	0.8	0.63	0.0	0.00	0.3
20		Glass bins	0.0	0.00	0.0	0.00	0.0	0.00	0.00
21		Broken Glass	1.1	0.82	0.0	0.00	0.0	0.00	0.4
22		<i>Glass-Subtotal</i>	<i>1.1</i>	<i>0.82</i>	<i>0.8</i>	<i>0.63</i>	<i>0.0</i>	<i>0.00</i>	<i>0.6</i>
23	Metals	Tin Cans (steel cans)	0.5	0.37	0.8	0.63	0.0	0.00	0.4
		Aluminum cans	0.4	0.30	0.0	0.00	0.5	0.46	0.3
		Copper	0.0	0.00	0.0	0.00	0.0	0.00	0.00
		Other Metals	0.0	0.00	0.0	0.00	0.0	0.00	0.00
		<i>Metal-subtotal</i>	<i>0.9</i>	<i>0.67</i>	<i>0.8</i>	<i>0.63</i>	<i>0.5</i>	<i>0.46</i>	<i>0.7</i>
									<i>0.59</i>
24	Dirt, Ash, Stone, Sand		0.0	0.00	0.0	0.0	0.0	0.00	0.0
	<i>Inorganic Waste - Subtotal</i>		<i>2.0</i>	<i>1.50</i>	<i>1.6</i>	<i>1.27</i>	<i>0.5</i>	<i>0.46</i>	<i>1.4</i>
									<i>1.10</i>
25	<i>Unclassified residual waste</i>		<i>0.0</i>	<i>0.00</i>	<i>0.0</i>	<i>0.00</i>	<i>0.0</i>	<i>0.00</i>	<i>0.0</i>
	<i>Domestic Hazardous Waste</i>		<i>0.0</i>	<i>0.00</i>	<i>0.0</i>	<i>0.00</i>	<i>0.0</i>	<i>0.00</i>	<i>0.0</i>
26	Batteries - Dry Cells		0.0	0.00	0.0	0.00	0.0	0.00	0.0
27	Other Domestic Hazardous Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0
	<i>Total weight</i>		<i>133.4</i>	<i>100.00</i>	<i>126.2</i>	<i>100.00</i>	<i>107.9</i>	<i>100.00</i>	<i>124.5</i>
	<i>Total volume</i>		<i>0.239</i>		<i>0.279</i>		<i>0.330</i>		<i>0.282</i>
	<i>Bulk Density</i>		<i>559.3</i>		<i>452.0</i>		<i>327.5</i>		<i>440.9</i>

Table 1.1.31 Waste Composition Ratio (%) in Hotels During Dry Season

Waste Composition			Day 1		Day 2		Day 3		Average	
			Weight (kgs)	Composition Ratio (%)						
1	Food Waste		108.0	79.70	116.0	79.34	102.0	88.16	108.7	82.03
2	Paper	Recyclable Paper	0.8	0.59	1.2	0.82	1.0	0.86	1.0	0.75
3		Recyclable Cardboard	1.4	1.03	1.1	0.75	0.7	0.61	1.1	0.81
4		Mixed Paper	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
5		Diapers	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
6		Subtotal-Paper	2.2	1.62	2.3	1.57	1.7	1.47	2.1	1.56
7	Plastics	Plastic Sheet	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
8		Recyclable Plastics	3.0	2.21	4.5	3.08	3.5	3.03	3.7	2.77
9		PET Bottles	3.0	2.21	3.5	2.39	2.6	2.25	3.0	2.29
10		Other Plastics	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
11		Subtotal-Plastics	6.0	4.43	8.0	5.47	6.1	5.27	6.7	5.06
12	Rubber & Leather		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
13	Textiles		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
14	Yard Waste		5.5	4.06	2.5	1.71	0.0	0.00	2.7	2.01
15	Lumber & Logs		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
16	Other Org. Waste		5.0	3.69	8.5	5.81	3.6	3.11	5.7	4.30
	Organic Waste - Subtotal		126.7	93.51	137.3	93.91	113.4	98.01	125.8	94.97
17	Inorganic Waste									
18	Glass	Returnable Bottles	4.8	3.54	6.8	4.65	0.0	0.00	3.9	2.92
19		Other Live Bottles	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
20		Glass bins	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
21		Broken Glass	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
22		Glass-Subtotal	4.8	3.54	6.8	4.65	0.0	0.00	3.9	2.92
23	Metals	Tin Cans (steel cans)	2.0	1.48	0.0	0.00	0.0	0.00	0.7	0.50
		Aluminum cans	2.0	1.48	1.6	1.09	1.8	1.56	1.8	1.36
		Copper	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Other Metals	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Metal-subtotal	4.0	2.95	1.6	1.09	1.8	1.56	2.5	1.86
24	Dirt, Ash, Stone, Sand		0.0	0.00	0.0	0.00	0.5	0.43	0.2	0.13
	Inorganic Waste - Subtotal		8.8	6.49	8.4	5.75	2.3	1.99	6.5	4.91
25	Unclassified residual waste		0.0	0.00	0.5	0.34	0.0	0.00	0.2	0.13
	Domestic Hazardous Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
26	Batteries - Dry Cells		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
27	Other Domestic Hazardous Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
	Total weight		135.5	100.00	146.2	100.00	115.7	100.00	132.5	100.00
	Total volume		0.420		0.456		0.415		0.430	
	Bulk Density		322.6		320.6		278.8		307.8	

Table 1.1. 32 Waste Composition Ratio (%) in Hotels During Wet Season

Waste Composition		Day 1		Day 2		Day 3		Average		
		Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	
1	Food Waste	120.0	79.31	136.0	81.88	134.0	84.92	130.0	87.98	
2	Paper	Recyclable Paper	0.0	0.00	2.5	1.51	0.0	0.00	0.8	0.56
3		Recyclable Cardboard	1.0	0.66	0.0	0.00	0.0	0.00	0.3	0.23
4		Mixed Paper	0.0	0.00	0.0	0.0	0.0	0.00	0.0	0.00
5		Diapers	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
6		<i>Subtotal-Paper</i>	<i>1.0</i>	<i>0.66</i>	<i>2.5</i>	<i>1.51</i>	<i>0.0</i>	<i>0.00</i>	<i>1.2</i>	<i>0.79</i>
7	Plastics	Plastic Sheet	1.3	0.86	0.6	0.36	1.5	0.95	1.1	0.77
8		Recyclable Plastics	3.6	2.38	3.2	1.93	4.8	3.04	3.9	2.62
9		PET Bottles	2.8	1.85	3.0	1.81	0.9	0.57	2.2	1.51
10		Other Plastics	0.3	0.20	0.0	0.00	0.0	0.00	0.1	0.07
11		<i>Subtotal-Plastics</i>	<i>8.0</i>	<i>5.29</i>	<i>6.8</i>	<i>4.09</i>	<i>7.2</i>	<i>4.56</i>	<i>7.3</i>	<i>4.96</i>
12	Rubber & Leather		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
13	Textiles		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
14	Yard Waste		10.5	6.94	7.5	4.52	9.0	5.70	0.5	0.34
15	Lumber & Logs		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
16	Other Org. Waste		2.6	1.72	3.5	2.11	4.8	3.04	1.5	1.02
	<i>Organic Waste - Subtotal</i>		<i>142.1</i>	<i>93.92</i>	<i>156.3</i>	<i>94.10</i>	<i>155.0</i>	<i>98.23</i>	<i>140.5</i>	<i>95.08</i>
17	<i>Inorganic Waste</i>									
18	Glass	Returnable Bottles	4.8	3.17	6.8	4.09	0.0	0.00	3.9	2.62
19		Other Live Bottles	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
20		Glass bins	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
21		Broken Glass	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
22		<i>Glass-Subtotal</i>	<i>4.8</i>	<i>3.17</i>	<i>6.8</i>	<i>4.09</i>	<i>0.0</i>	<i>0.00</i>	<i>3.9</i>	<i>2.62</i>
23	Metals	Tin Cans (steel cans)	1.2	0.79	0.0	0.00	0.8	0.51	0.7	0.45
		Aluminum cans	3.2	2.12	2.5	1.51	1.5	0.95	2.4	1.62
		Copper	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Other Metals	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		<i>Metal-subtotal</i>	<i>4.4</i>	<i>2.91</i>	<i>2.5</i>	<i>1.51</i>	<i>2.3</i>	<i>1.46</i>	<i>3.1</i>	<i>2.08</i>
24	Dirt, Ash, Stone, Sand		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
	<i>Inorganic Waste - Subtotal</i>		<i>9.2</i>	<i>6.08</i>	<i>9.3</i>	<i>5.60</i>	<i>2.3</i>	<i>1.46</i>	<i>6.9</i>	<i>4.69</i>
25	Unclassified residual waste		0.0	0.00	0.5	0.30	0.5	0.32	0.3	0.23
	Domestic Hazardous Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
26	Batteries - Dry Cells		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
27	Other Domestic Hazardous Waste		0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.00
	Total weight		151.3	100.00	166.1	100.00	157.8	100.00	147.8	100.00
	Total volume		0.450		0.360		0.242		0.351	
	Bulk Density		336.2		461.4		652.1		421.4	

Table 1.1.33 Waste Composition Ratio (%) in Public Facilities During Dry Season

Waste Composition			Day 1		Day 2		Day 3		Average	
			Weight (kgs)	Composition Ratio (%)						
1	Food Waste		78.0	67.07	69.2	66.16	82.3	73.68	76.5	69.00
2	Paper	Recyclable Paper	1.0	0.86	0.0	0.00	3.5	3.13	1.5	1.35
3		Recyclable Cardboard	0.0	0.00	2.5	2.39	0.0	0.00	0.8	0.75
4		Mixed Paper	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
5		Diapers	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
6		Subtotal-Paper	1.0	0.86	2.5	2.39	3.5	3.13	2.3	2.10
7	Plastics	Plastic Sheet	2.0	1.72	2.5	2.39	0	0.00	1.5	1.35
8		Recyclable Plastics	3.0	2.58	4.2	4.02	0	0.00	2.4	2.16
9		PET Bottles	3.5	3.01	3.6	3.44	5.1	4.57	4.1	3.67
10		Other Plastics	0.0	0.00	0	0.00	0	0.00	0.0	0.00
11		Subtotal-Plastics	8.5	7.31	10.3	9.85	5.1	4.57	8.0	7.19
12	Rubber & Leather		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
13	Textiles		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
14	Yard Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
15	Lumber & Logs		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
16	Other Org. Waste		13.5	11.61	8.5	8.13	3.5	3.13	8.5	7.67
		Organic Waste - Subtotal	101.0	86.84	90.5	86.52	94.4	84.51	95.3	85.96
17	Inorganic Waste									
18	Glass	Returnable Bottles	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
19		Other Live Bottles	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
20		Glass bins	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
21		Broken Glass	8.0	6.88	4.0	3.82	6.5	5.82	6.2	5.56
22		Glass-Subtotal	8.0	6.88	4.0	3.82	6.5	5.82	6.2	5.56
23	Metals	Tin Cans (steel cans)	6.0	5.16	5.0	4.78	0.0	0.00	3.7	3.31
		Aluminum cans	1.3	1.12	1.5	1.43	8.4	7.52	3.7	3.37
		Copper	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Other Metals	0.0	0.00	3.6	3.44	0.0	0.00	1.2	1.08
		Metal-subtotal	7.3	6.28	10.1	9.66	8.4	7.52	8.6	7.76
24	Dirt, Ash, Stone, Sand		0.0	0.00	0.0	0.00	2.4	2.15	0.8	0.72
		Inorganic Waste - Subtotal	15.3	13.16	14.1	13.48	17.3	15.49	15.6	14.04
25	Unclassified residual waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Domestic Hazardous Waste	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
26	Batteries - Dry Cells		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
27	Other Domestic Hazardous Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Total weight	116.3	100.00	104.6	100.00	111.7	100.00	110.9	100.00
		Total volume	0.228		0.322		0.376		0.309	
		Bulk Density	510.1		324.8		296.9		359.1	

Table 1.1.34 Waste Composition Ratio (%) in Public Facilities During Wet Season

Waste Composition		Day 1		Day 2		Day 3		Average		
		Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	
1	Food Waste	108.0	70.73	98.0	74.58	89.7	65.19	98.6	73.52	
2	Paper	Recyclable Paper	2.0	1.31	0.0	0.00	5.7	4.14	2.6	1.91
3		Recyclable Cardboard	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
4		Mixed Paper	0.0	0.00	0.0	0.00	7.0	5.09	2.3	1.74
5		Diapers	0.0	0.00	0.5	0.38	0.0	0.00	0.2	0.12
6		Subtotal-Paper	2.0	1.31	0.5	0.38	12.7	9.23	5.1	3.78
7	Plastics	Plastic Sheet	3.0	1.96	2.5	1.90	2.0	1.45	2.5	1.86
8		Recyclable Plastics	2.5	1.64	5	3.81	0.0	0.00	2.5	1.86
9		PET Bottles	7.2	4.72	7.9	6.01	8.6	6.25	7.9	5.89
10		Other Plastics	0.0	0.00	0	0.00	0.0	0.00	0.0	0.00
11		Subtotal-Plastics	12.7	8.32	15.4	11.72	10.6	7.70	12.9	9.62
12	Rubber & Leather		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
13	Textiles		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
14	Yard Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.5	0.37
15	Lumber & Logs		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
16	Other Org. Waste		13.5	8.84	8.5	6.47	3.5	2.54	1.5	1.12
	Organic Waste - Subtotal		136.2	89.19	122.4	93.15	116.5	84.67	118.5	88.41
17	Inorganic Waste									
18	Glass	Returnable Bottles	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
19		Other Live Bottles	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
20		Glass bins	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
21		Broken Glass	8.0	5.24	4.0	3.04	6.5	4.72	6.2	4.60
22		Glass-Subtotal	8.0	5.24	4.0	3.04	6.5	4.72	6.2	4.60
23	Metals	Tin Cans (steel cans)	6.0	3.93	5.0	3.81	12.0	8.72	7.7	5.72
		Aluminum cans	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Copper	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Other Metals	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Metal-subtotal	6.0	3.93	5.0	3.81	12.0	8.72	7.7	5.72
24	Dirt, Ash, Stone, Sand		2.5	1.64	0.0	0.00	2.6	1.89	1.7	1.27
	Inorganic Waste - Subtotal		16.5	10.81	9.0	6.85	21.1	15.33	15.5	11.59
25	Unclassified residual waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
	Domestic Hazardous Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
26	Batteries - Dry Cells		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
27	Other Domestic Hazardous Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
	Total weight		152.7	100.00	131.4	100.00	137.6	100.00	134.1	100.00
	Total volume		0.356		0.321		0.380		0.352	
	Bulk Density		428.9		409.7		362.1		380.6	

Table 1.1.35 Waste Composition Ratio (%) in Market During Dry Season

Waste Composition			Day 1		Day 2		Day 3		Average	
			Weight (kgs)	Composition Ratio (%)						
1	Food Waste		103.0	88.45	107.6	90.49	165.3	92.42	125.3	90.75
2	Paper	Recyclable Paper	2.0	1.72	1.0	0.84	1.2	0.67	1.4	1.01
3		Recyclable Cardboard	3.0	2.58	1.5	1.22	4.2	2.35	2.9	2.09
4		Mixed Paper	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
5		Diapers	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
6		Subtotal-Paper	5.0	4.29	2.5	2.06	5.4	3.02	4.3	3.10
7	Plastics	Plastic Sheet	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
8		Recyclable Plastics	1.2	1.03	0.8	0.67	1.0	0.56	1.0	0.72
9		PET Bottles	1.6	1.37	0.8	0.67	0.0	0.00	0.8	0.58
10		Other Plastics	0.0	0.00	0.5	0.38	0.1	0.06	0.2	0.13
11		Subtotal-Plastics	2.8	2.40	2.1	1.72	1.1	0.62	2.0	1.44
12	Rubber & Leather		0.2	0.17	0.0	0.00	0.0	0.00	0.1	0.05
13	Textiles		2.5	2.15	3.8	3.16	4.1	2.29	3.5	2.50
14	Yard Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
15	Lumber & Logs		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
16	Other Org. Waste		0.8	0.69	1.0	0.84	0.0	0.00	0.6	0.43
	Organic Waste - Subtotal		114.3	98.15	116.9	98.28	175.9	98.35	135.7	98.27
17	Inorganic Waste									
18	Glass	Returnable Bottles	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
19		Other Live Bottles	0.0	0.00	0.3	0.25	0.0	0.00	0.1	0.07
20		Glass bins	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
21		Broken Glass	1.2	1.03	1.0	0.84	1.7	0.92	1.3	0.93
22		Glass-Subtotal	1.2	1.03	1.3	1.09	1.7	0.92	1.4	1.00
23	Metals	Tin Cans (steel cans)	0.3	0.21	0.0	0.00	0.1	0.06	0.1	0.08
		Aluminum cans	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Copper	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Other Metals	0.7	0.60	0.4	0.29	0.2	0.11	0.4	0.30
		Metal-subtotal	1.0	0.82	0.4	0.29	0.3	0.17	0.5	0.39
24	Dirt, Ash, Stone, Sand		0.0	0.00	0.4	0.34	1.0	0.56	0.5	0.34
	Inorganic Waste - Subtotal		2.2	1.85	2.1	1.72	3.0	1.65	2.4	1.73
25	Unclassified residual waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
	Domestic Hazardous Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
26	Batteries - Dry Cells		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
27	Other Domestic Hazardous Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
	Total weight		116.5	100.00	118.9	100.00	178.9	100.00	138.1	100.00
	Total volume		260		350		520		377	
	Bulk Density		0.448		0.340		0.344		0.367	

Table 1.1.36 Waste Composition Ratio (%) in Market During Wet Season

Waste Composition		Day 1		Day 2		Day 3		Average		
		Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	Weight (kgs)	Composition Ratio (%)	
1	Food Waste	125.0	86.27	156.0	88.76	132.6	87.70	137.9	87.65	
2	Paper	Recyclable Paper	2.0	1.38	1.0	0.57	0.0	0.00	1.0	0.64
3		Recyclable Cardboard	5.8	4.00	7.9	4.50	10.6	7.01	8.1	5.15
4		Mixed Paper	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
5		Diapers	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
6		<i>Subtotal-Paper</i>	<i>7.8</i>	<i>5.38</i>	<i>8.9</i>	<i>5.06</i>	<i>10.6</i>	<i>7.01</i>	<i>9.1</i>	<i>5.79</i>
7	Plastics	Plastic Sheet	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
8		Recyclable Plastics	2.3	1.59	3.1	1.76	1.2	0.79	2.2	1.40
9		PET Bottles	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
10		Other Plastics	0.0	0.00	0.5	0.26	0.1	0.07	0.2	0.12
11		<i>Subtotal-Plastics</i>	<i>2.3</i>	<i>1.59</i>	<i>3.6</i>	<i>2.02</i>	<i>1.3</i>	<i>0.86</i>	<i>2.4</i>	<i>1.52</i>
12	Rubber & Leather		1.8	1.24	0.0	0.00	0.0	0.00	0.6	0.38
13	Textiles		4.0	2.76	5.7	3.24	6.2	4.10	5.3	3.37
14	Yard Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
15	Lumber & Logs		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
16	Other Org. Waste		2.3	1.59	1.3	0.74	0.5	0.33	1.4	0.87
	<i>Organic Waste - Subtotal</i>		<i>143.2</i>	<i>98.83</i>	<i>175.5</i>	<i>99.83</i>	<i>151.2</i>	<i>100.00</i>	<i>156.6</i>	<i>99.58</i>
17	<i>Inorganic Waste</i>									
18	Glass	Returnable Bottles	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
19		Other Live Bottles	0.0	0.00	0.3	0.17	0.0	0.00	0.1	0.06
20		Glass bins	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
21		Broken Glass	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
22		<i>Glass-Subtotal</i>	<i>0.0</i>	<i>0.00</i>	<i>0.3</i>	<i>0.17</i>	<i>0.0</i>	<i>0.00</i>	<i>0.1</i>	<i>0.06</i>
23	Metals	Tin Cans (steel cans)	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Aluminum cans	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Copper	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Other Metals	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		<i>Metal-subtotal</i>	<i>0.0</i>	<i>0.00</i>	<i>0.0</i>	<i>0.00</i>	<i>0.0</i>	<i>0.00</i>	<i>0.0</i>	<i>0.00</i>
24	Dirt, Ash, Stone, Sand		0.5	0.35	0.0	0.00	0.0	0.00	0.2	0.11
	<i>Inorganic Waste - Subtotal</i>		<i>0.5</i>	<i>0.35</i>	<i>0.3</i>	<i>0.17</i>	<i>0.0</i>	<i>0.00</i>	<i>0.3</i>	<i>0.17</i>
25	<i>Unclassified residual waste</i>		1.2	0.83	0.0	0.00	0.0	0.00	0.4	0.25
	<i>Domestic Hazardous Waste</i>		<i>0.0</i>	<i>0.00</i>	<i>0.0</i>	<i>0.00</i>	<i>0.0</i>	<i>0.00</i>	<i>0.0</i>	<i>0.00</i>
26	Batteries - Dry Cells		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
27	Other Domestic Hazardous Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
	<i>Total weight</i>		<i>144.9</i>	<i>100.00</i>	<i>175.8</i>	<i>100.00</i>	<i>151.2</i>	<i>100.00</i>	<i>157.3</i>	<i>100.00</i>
	<i>Total volume</i>		<i>420</i>		<i>368</i>		<i>470</i>		<i>419</i>	
	<i>Bulk Density</i>		<i>0.345</i>		<i>0.478</i>		<i>0.322</i>		<i>0.375</i>	

Table 1.1.37 Waste Composition Ratio (%) in Road During Dry Season

Waste Composition			Day 1		Day 2		Day 3		Average	
			Weight (kgs)	Composition Ratio (%)						
1	Food Waste		2.5	1.90	4.6	3.15	6.0	2.99	4.4	2.74
2	Paper	Recyclable Paper	9.0	6.83	6.5	4.45	8.0	3.99	7.8	4.91
3		Recyclable Cardboard	5.5	4.18	10.0	6.84	7.5	3.74	7.7	4.81
4		Mixed Paper	2.0	1.52	0.0	0.00	0.0	0.00	0.7	0.42
5		Diapers	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
6		Subtotal-Paper	16.5	12.53	16.5	11.29	15.5	7.73	16.2	10.14
7	Plastics	Plastic Sheet	6.5	4.94	4.5	3.08	7.0	3.49	6.0	3.76
8		Recyclable Plastics	3.0	2.28	5.0	3.42	0.0	0.00	2.7	1.67
9		PET Bottles	3.0	2.28	0.0	0.00	5.0	2.49	2.7	1.67
10		Other Plastics	0.0	0.00	1.0	0.68	0.0	0.00	0.3	0.21
11		Subtotal-Plastics	12.5	9.49	10.5	7.19	12.0	5.99	11.7	7.32
12	Rubber & Leather		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
13	Textiles		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
14	Yard Waste		43.0	32.65	8.0	5.48	74.0	36.91	41.7	26.13
15	Lumber & Logs		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
16	Other Org. Waste		0.0	0.00	6.0	4.11	0.0	0.00	2.0	1.25
	Organic Waste - Subtotal		74.5	56.57	45.6	31.21	107.5	53.62	75.9	47.59
17	Inorganic Waste									
18	Glass	Returnable Bottles	0.0	0.00	0.0	0.00	2.0	1.00	0.7	0.42
19		Other Live Bottles	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
20		Glass bins	1.5	1.14	2.0	1.37	0.0	0.00	1.2	0.73
21		Broken Glass	2.5	1.90	0.0	0.00	3.0	1.50	1.8	1.15
22		Glass-Subtotal	4.0	3.04	2.0	1.37	5.0	2.49	3.7	2.30
23	Metals	Tin Cans (steel cans)	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Aluminum cans	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Copper	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Other Metals	3.2	2.43	3.0	2.05	2.0	1.00	2.7	1.71
		Metal-subtotal	3.2	2.43	3.0	2.05	2.0	1.00	2.7	1.71
24	Dirt, Ash, Stone, Sand		42.0	31.89	92.0	62.97	84.0	41.90	72.7	45.58
	Inorganic Waste - Subtotal		49.2	37.36	97.0	66.39	91.0	45.39	79.1	49.59
25	Unclassified residual waste		7.0	5.32	3.5	2.40	0.0	0.00	3.5	2.20
	Domestic Hazardous Waste		1.0	0.76	0.0	0.00	2.0	1.00	1.0	0.63
26	Batteries - Dry Cells		1.0	0.76	0.0	0.00	2.0	1.00	1.0	0.63
27	Other Domestic Hazardous Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
	Total weight		131.7	100.00	146.1	100.00	200.5	100.00	159.4	100.00
	Total volume		409		415		401		408	
	Bulk Density		0.322		0.352		0.500		0.390	

Table 1.1.38 Waste Composition Ratio (%) in Road During Wet Season

Waste Composition			Day 1		Day 2		Day 3		Average	
			Weight (kgs)	Composition Ratio (%)						
1	Food Waste		58.0	25.61	60.0	26.67	63.0	26.42	60.3	26.23
2	Paper	Recyclable Paper	44.0	19.43	43.0	19.11	43.0	18.03	43.3	18.84
3		Recyclable Cardboard	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
4		Mixed Paper	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
5		Diapers	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
6		Subtotal-Paper	44.0	19.43	43.0	19.11	43.0	18.03	43.3	18.84
7	Plastics	Plastic Sheet	4.0	1.77	7.0	3.11	6.50	2.73	5.8	2.54
8		Recyclable Plastics	13.0	5.74	13.0	5.78	7.00	2.94	11.0	4.78
9		PET Bottles	18.0	7.95	17.0	7.56	7.00	2.94	14.0	6.09
10		Other Plastics	0.0	0.00	0.0	0.00	0.00	0.00	0.0	0.00
11		Subtotal-Plastics	35.0	15.45	37.0	16.44	20.5	8.60	30.8	13.41
12	Rubber & Leather		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
13	Textiles		0.0	0.00	0.0	0.00	4.0	1.68	1.3	0.58
14	Yard Waste		12.0	5.30	29.0	12.89	35.0	14.68	25.3	11.01
15	Lumber & Logs		3.5	1.55	0.0	0.00	0.0	0.00	1.2	0.51
16	Other Org. Waste		29.0	12.80	15.0	6.67	28.0	11.74	24.0	10.43
	Organic Waste - Subtotal		181.5	80.13	184.0	81.78	193.5	81.13	186.3	81.01
17	Inorganic Waste									
18	Glass	Returnable Bottles	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
19		Other Live Bottles	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
20		Glass bins	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
21		Broken Glass	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
22		Glass-Subtotal	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
23	Metals	Tin Cans (steel cans)	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Aluminum cans	0.0	0.00	0.0	0.00	1.0	0.42	0.3	0.14
		Copper	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
		Other Metals	0.0	0.00	1.0	0.44	1.0	0.42	0.7	0.29
		Metal-subtotal	0.0	0.00	1.0	0.44	2.0	0.84	1.0	0.43
24	Dirt, Ash, Stone, Sand		45.0	19.87	40.0	17.78	43.0	18.03	42.7	18.55
	Inorganic Waste - Subtotal		45.0	19.87	41.0	18.22	45.0	18.87	43.7	18.99
25	Unclassified residual waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
	Domestic Hazardous Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
26	Batteries - Dry Cells		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
27	Other Domestic Hazardous Waste		0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
	Total weight		226.5	100.00	225.0	100.00	238.5	100.00	230.0	100.00
	Total volume		342		368		421		377	
	Bulk Density		0.662		0.611		0.567		0.610	

Table 1.1.39 Waste Composition Ratio (%) in Dandora Dumpsite for Day 1 During Dry Season

Waste Composition		Truck No. 1		Truck No. 2		Truck No. 3		Truck No. 4		Truck No. 5		Truck No. 6		Truck No. 7		Truck No. 8		Truck No. 9		Truck No. 10		Average for Day 1	
		Weight (kgs)	Composition Ratio	Average for Day 1																			
1	Food Waste	25.0	11.66%	92.0	73.37%	10.0	7.27%	90.0	84.11%	86.0	68.80%	98.0	86.34%	47.0	35.34%	58.0	43.67%	75.0	67.26%	150.0	100.00%	73.1	54.14%
2	Paper	36.0	16.78%	0.1	0.08%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	2.5	1.88%	9.0	6.78%	9.0	8.07%	0.0	0.00%	5.7	4.19%
3	Recyclable Cardboard	0.0	0.00%	0.0	0.00%	17.0	12.36%	0.0	0.00%	0.0	0.00%	0.0	0.00%	6.0	4.51%	0.0	0.00%	0.0	0.00%	0.0	0.00%	2.3	1.70%
4	Mixed Paper	0.0	0.00%	0.0	0.00%	14.0	10.18%	0.0	0.00%	0.0	0.00%	7.0	6.17%	9.0	6.77%	0.0	0.00%	0.0	0.00%	0.0	0.00%	3.0	2.22%
5	Diapers	2.0	0.93%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.2	0.15%
6	<i>Subtotal-Paper</i>	<i>38.0</i>	<i>17.72%</i>	<i>0.1</i>	<i>0.08%</i>	<i>31.0</i>	<i>22.55%</i>	<i>0.0</i>	<i>0.00%</i>	<i>0.0</i>	<i>0.00%</i>	<i>7.0</i>	<i>6.17%</i>	<i>17.5</i>	<i>13.16%</i>	<i>9.0</i>	<i>6.78%</i>	<i>9.0</i>	<i>8.07%</i>	<i>0.0</i>	<i>0.00%</i>	<i>11.2</i>	<i>8.27%</i>
7	Plastics	26.0	12.12%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	6.0	5.38%	0.0	0.00%	3.2	2.37%
8	Recyclable Plastics	7.5	3.50%	0.0	0.00%	30.0	21.82%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	54.0	40.66%	0.0	0.00%	0.0	0.00%	9.2	6.78%
9	PET Bottles	10.5	4.90%	0.3	0.24%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	2.0	1.50%	0.0	0.00%	2.5	2.24%	0.0	0.00%	1.5	1.13%
10	Other Plastics	0.0	0.00%	6.0	4.78%	0.0	0.00%	13.0	12.15%	1.0	0.80%	8.5	7.49%	5.0	3.76%	3.0	2.26%	5.0	4.48%	0.0	0.00%	4.2	3.07%
11	<i>Subtotal-Plastics</i>	<i>44.0</i>	<i>20.51%</i>	<i>6.3</i>	<i>5.02%</i>	<i>30.0</i>	<i>21.82%</i>	<i>13.0</i>	<i>12.15%</i>	<i>1.0</i>	<i>0.80%</i>	<i>8.5</i>	<i>7.49%</i>	<i>7.0</i>	<i>5.26%</i>	<i>57.0</i>	<i>42.92%</i>	<i>13.5</i>	<i>12.11%</i>	<i>0.0</i>	<i>0.00%</i>	<i>18.0</i>	<i>13.35%</i>
12	Rubber & Leather	0.0	0.00%	7.0	5.58%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.7	0.52%
13	Textiles	1.5	0.70%	0.0	0.00%	0.0	0.00%	4.0	3.74%	0.0	0.00%	0.0	0.00%	2.0	1.50%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.8	0.56%
14	Yard Waste	30.0	13.99%	11.0	8.77%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	43.0	32.33%	0.0	0.00%	12.0	10.76%	0.0	0.00%	9.6	7.11%
15	Lumber & Logs	27.0	12.59%	8.0	6.38%	15.0	10.91%	0.0	0.00%	38.0	30.40%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	8.8	6.52%
16	Other Org. Waste	12.0	5.59%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	12.0	9.02%	2.8	2.11%	0.0	0.00%	0.0	0.00%	2.7	1.98%
	Organic Waste -	177.5	82.75%	124.4	99.20%	86.0	62.55%	107.0	100.00%	125.0	100.00%	113.5	100.00%	128.5	96.62%	126.8	95.48%	109.5	98.21%	150.0	100.00%	124.8	92.45%
17	Inorganic Waste																						
18	Glass	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%
19	Other Live Bottles	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%
20	Glass bins	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%
21	Broken Glass	10.0	4.66%	1.0	0.80%	30.0	21.82%	0.0	0.00%	0.0	0.00%	0.0	0.00%	3.0	2.26%	0.0	0.00%	2.0	1.79%	0.0	0.00%	4.6	3.41%
22	<i>Glass-Subtotal</i>	<i>10.0</i>	<i>4.66%</i>	<i>1.0</i>	<i>0.80%</i>	<i>30.0</i>	<i>21.82%</i>	<i>0.0</i>	<i>0.00%</i>	<i>0.0</i>	<i>0.00%</i>	<i>0.0</i>	<i>0.00%</i>	<i>3.0</i>	<i>2.26%</i>	<i>0.0</i>	<i>0.00%</i>	<i>2.0</i>	<i>1.79%</i>	<i>0.0</i>	<i>0.00%</i>	<i>4.6</i>	<i>3.41%</i>
23	Metals	6.0	2.80%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.6	0.44%
	Aluminum cans	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%
	Copper	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%
	Other Metals	1.0	0.47%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.5	1.13%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.3	0.19%
	<i>Metal-subtotal</i>	<i>7.0</i>	<i>3.26%</i>	<i>0.0</i>	<i>0.00%</i>	<i>1.5</i>	<i>1.13%</i>	<i>0.0</i>	<i>0.00%</i>	<i>0.0</i>	<i>0.00%</i>	<i>0.9</i>	<i>0.63%</i>										
24	Dirt, Ash, Stone, Sand	12.0	5.59%	0.0	0.00%	21.5	15.64%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	3.4	2.48%
	Inorganic Waste -	29.0	13.52%	1.0	0.80%	51.5	37.45%	0.0	0.00%	0.0	0.00%	4.5	3.38%	0.0	0.00%	2.0	1.79%	0.0	0.00%	8.8	6.52%		
25	Unclassified residual	7.0	3.26%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	6.0	4.52%	0.0	0.00%	0.0	0.00%	1.3	0.96%		
	Domestic Hazardous	1.0	0.47%	0.0	0.00%	0.1	0.07%																
26	Batteries - Dry Cells	1.0	0.47%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.1	0.07%
27	Other Domestic	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%
	Total weight	214.5	100.00%	125.4	100.00%	137.5	100.00%	107.0	100.00%	125.0	100.00%	113.5	100.00%	133.0	100.00%	132.8	100.00%	111.5	100.00%	150.0	100.00%	135.0	100.00%
	Total volume	506.0		280.0		260.0		240.0		260.0		265.0		360.0		288.0		300.0		280.0		303.9	
	Bulk Density	0.424		0.448		0.529		0.446		0.481		0.428		0.369		0.461		0.372		0.536		0.444	

Table 1.1.40 Waste Composition Ratio (%) in Dandora Dumpsite for Day 2 During Dry Season

Waste Composition		Truck No. 1		Truck No. 2		Truck No. 3		Truck No. 4		Truck No. 5		Truck No. 6		Truck No. 7		Truck No. 8		Truck No. 9		Truck No. 10		Average for Day 2		
		Weight	Composition	Weight	Composition	Weight	Composition	Weight	Composition	Weight	Composition	Weight	Composition	Weight	Composition	Weight	Composition	Weight	Composition	Weight	Composition	Weight	Composition	
1	Food Waste	31.0	12.81%	78.0	62.65%	82.0	71.62%	52.0	38.75%	61.0	58.54%	83.0	68.03%	75.0	72.82%	71.5	64.41%	83.0	58.04%	69.0	55.42%	68.6	51.82%	
2	Paper	34.0	14.05%	6.0	4.82%	0.5	0.44%	3.2	2.38%	8.0	7.68%	9.0	6.56%	2.0	1.94%	7.0	6.31%	6.5	4.55%	6.0	4.82%	8.1	6.14%	
3	Recyclable Cardboard	0.0	0.00%	3.0	2.41%	0.0	0.00%	7.0	5.22%	1.0	0.96%	9.0	7.38%	1.5	1.46%	8.0	7.21%	2.5	1.75%	8.0	6.43%	4.0	3.02%	
4	Mixed Paper	0.0	0.00%	0.0	0.00%	1.0	0.87%	10.0	7.45%	1.5	1.44%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	5.0	4.02%	1.8	1.32%	
5	Diapers	11.0	4.55%	2.0	1.61%	2.0	1.75%	0.0	0.00%	8.0	7.68%	0.0	0.00%	2.0	1.94%	2.5	2.25%	0.0	0.00%	2.8	2.08%			
6	Subtotal-Paper	45.0	18.60%	11.0	8.84%	3.5	3.06%	20.2	15.05%	18.5	17.75%	17.0	13.93%	5.5	5.34%	17.5	15.77%	9.0	6.29%	19.0	15.26%	16.6	12.56%	
7	Plastics	Plastic Sheet	21.0	8.68%	7.0	5.62%	1.0	0.87%	2.0	1.49%	3.0	2.88%	1.0	0.82%	0.5	0.49%	2.0	1.80%	2.0	1.40%	0.5	0.40%	4.0	3.02%
8	Recyclable Plastics	8.0	3.31%	3.0	2.41%	0.0	0.00%	1.0	0.75%	0.0	0.00%	1.0	0.82%	0.5	0.49%	0.0	0.00%	0.0	0.00%	1.5	1.20%	1.5	1.13%	
9	PET Bottles	11.0	4.55%	0.5	0.40%	0.5	0.44%	1.0	0.75%	0.5	0.48%	1.0	0.82%	0.0	0.00%	0.5	0.45%	1.5	1.05%	0.0	0.00%	1.7	1.25%	
10	Other Plastics	0.0	0.00%	4.0	3.21%	7.0	6.11%	5.0	3.73%	0.0	0.00%	0.0	0.00%	4.0	3.88%	0.0	0.00%	6.0	4.20%	0.0	0.00%	2.6	1.97%	
11	Subtotal-Plastics	40.0	16.53%	14.5	11.65%	8.5	7.42%	9.0	6.71%	3.5	3.36%	3.0	2.46%	5.0	4.85%	2.5	2.25%	9.5	6.64%	2.0	1.61%	9.8	7.37%	
12	Rubber & Leather	0.0	0.00%	0.0	0.00%	5.0	4.37%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.5	1.20%	0.7	0.49%	
13	Textiles	2.0	0.83%	0.0	0.00%	0.0	0.00%	3.0	2.24%	0.0	0.00%	4.0	3.28%	0.0	0.00%	0.0	0.00%	2.0	1.40%	2.0	1.61%	1.3	0.98%	
14	Yard Waste	29.0	11.98%	16.0	12.85%	8.0	6.99%	36.0	26.83%	1.5	1.44%	12.0	9.84%	3.0	2.91%	0.0	0.00%	16.5	11.54%	16.0	12.85%	13.8	10.43%	
15	Lumber & Logs	34.0	14.05%	0.0	0.00%	4.0	3.49%	2.0	1.49%	3.0	2.88%	0.0	0.00%	2.0	1.94%	2.0	1.80%	3.0	2.10%	0.0	0.00%	5.0	3.78%	
16	Other Org. Waste	41.0	16.94%	0.0	0.00%	0.0	0.00%	8.0	5.96%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	4.9	3.70%	
17	Organic Waste -	222.0	91.74%	119.5	95.98%	111.0	96.94%	130.2	97.02%	87.5	83.97%	119.0	97.54%	90.5	87.86%	93.5	84.23%	123.0	86.01%	109.5	87.95%	120.6	91.14%	
18	Inorganic Waste																							
19	Glass	Returnable Bottles	0.0	0.00%	1.5	1.20%	1.0	0.87%	0.0	0.00%	6.0	5.76%	0.0	0.00%	2.0	1.94%	0.5	0.45%	4.0	2.80%	0.0	0.00%	1.5	1.13%
20	Other Live Bottles	0.0	0.00%	0.0	0.00%	0.3	0.25%	0.0	0.00%	0.5	0.48%	1.0	0.82%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.2	0.14%			
21	Glass bins	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.0	0.75%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.1	0.08%			
22	Broken Glass	5.0	2.07%	1.0	0.80%	0.2	0.17%	0.5	0.37%	2.0	1.92%	1.0	0.82%	0.5	0.49%	2.5	2.25%	1.5	1.05%	1.5	1.20%	1.6	1.19%	
23	Glass-Subtotal	5.0	2.07%	2.5	2.01%	1.5	1.31%	1.5	1.12%	8.5	8.16%	2.0	1.64%	2.5	2.43%	3.0	2.70%	5.5	3.85%	1.5	1.20%	3.4	2.53%	
24	Metals	Tin Cans (steel cans)	5.0	2.07%	0.5	0.40%	0.0	0.00%	0.5	0.37%	0.0	0.00%	0.0	0.00%	0.5	0.49%	1.5	1.35%	0.5	0.35%	0.5	0.40%	0.9	0.68%
25	Aluminum cans	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.0	0.70%	0.0	0.00%	0.1	0.08%	
26	Copper	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	
27	Other Metals	4.0	1.65%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.0	0.82%	1.5	1.46%	0.0	0.00%	0.0	0.00%	0.7	0.49%	
28	Metal-subtotal	9.0	3.72%	0.5	0.40%	0.0	0.00%	0.5	0.37%	0.0	0.00%	1.0	0.82%	2.0	1.94%	1.5	1.35%	1.5	1.05%	0.5	0.40%	1.7	1.25%	
29	Dirt, Ash, Stone, Sand	0.0	0.00%	1.5	1.20%	2.0	1.75%	2.0	1.49%	5.0	4.80%	0.0	0.00%	8.0	7.77%	6.0	5.41%	13.0	9.09%	13.0	10.44%	5.1	3.82%	
30	Inorganic Waste -	14.0	5.79%	4.5	3.61%	3.5	3.06%	4.0	2.98%	13.5	12.96%	3.0	2.46%	12.5	12.14%	10.5	9.46%	20.0	13.99%	15.0	12.05%	10.1	7.60%	
31	Unclassified residual	0.0	0.00%	0.5	0.40%	0.0	0.00%	0.0	0.00%	2.0	1.92%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.3	0.19%			
32	Domestic Hazardous	6.0	2.48%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.2	1.15%	0.0	0.00%	0.0	0.00%	7.0	6.31%	0.0	0.00%	0.0	0.00%	1.4	1.07%	
33	Batteries - Dry Cells	6.0	2.48%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.2	1.15%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.7	0.54%			
34	Other Domestic	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	7.0	6.31%	0.0	0.00%	0.7	0.53%			
35	Total weight	242.0	100.00%	124.5	100.00%	114.5	100.00%	134.2	100.00%	104.2	100.00%	122.0	100.00%	103.0	100.00%	111.0	100.00%	143.0	100.00%	124.5	100.00%	132.3	100.00%	
36	Total volume	467.0		280.0		280.0		300.0		240.0		300.0		220.0		260.0		280.0		260.0		288.7		
37	Bulk Density	0.518		0.445		0.409		0.447		0.434		0.407		0.468		0.427		0.511		0.479		0.458		

Table 1.1.41 Waste Composition Ratio (%) in Dandora Dumpsite for Day 3 During Dry Season

Waste Composition	Truck No. 1		Truck No. 2		Truck No. 3		Truck No. 4		Truck No. 5		Truck No. 6		Truck No. 7		Truck No. 8		Truck No. 9		Truck No. 10		Average for Day 3			
	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio		
1 Food Waste	29.0	11.09%	104.5	88.56%	66.5	64.19%	87.0	86.83%	80.5	78.00%	25.0	23.72%	26.0	25.42%	79.7	79.03%	6.2	5.36%	71.0	66.11%	57.5	47.24%		
2 Paper	31.0	11.85%	5.0	4.24%	11.0	10.62%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.6	1.59%	0.0	0.00%	0.0	0.00%	4.9	3.99%		
3 Recyclable Cardboard	0.0	0.00%	2.0	1.69%	2.0	1.93%	0.0	0.00%	2.7	2.62%	1.3	1.23%	0.0	0.00%	0.1	0.10%	0.0	0.00%	0.0	0.00%	0.8	0.66%		
4 Mixed Paper	6.0	2.29%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.5	0.49%	0.0	0.00%	0.0	0.00%	0.3	0.28%	0.7	0.56%		
5 Diapers	4.5	1.72%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.4	1.39%	0.0	0.00%	1.0	0.93%	0.7	0.57%		
6 Subtotal-Paper	41.5	15.87%	7.0	5.93%	13.0	12.55%	0.0	0.00%	2.7	2.62%	1.3	1.23%	0.5	0.49%	3.1	3.07%	0.0	0.00%	1.3	1.21%	7.0	5.78%		
7 Plastics	Plastic Sheet	19.0	7.27%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.9	1.56%	
8 Recyclable Plastics	0.0	0.00%	3.0	2.54%	7.4	7.14%	0.0	0.00%	0.6	0.58%	0.8	0.76%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.6	1.49%	1.3	1.10%		
9 PET Bottles	12.0	4.59%	1.5	1.27%	1.2	1.16%	1.4	1.40%	1.8	1.74%	0.5	0.47%	0.8	0.78%	1.3	1.29%	0.0	0.00%	1.2	1.12%	2.2	1.78%		
10 Other Plastics	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.8	0.80%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.1	0.07%		
11 Subtotal-Plastics	31.0	11.85%	4.5	3.81%	8.6	8.30%	2.2	2.20%	2.4	2.33%	1.3	1.23%	0.8	0.78%	1.3	1.29%	0.0	0.00%	2.8	2.61%	5.5	4.51%		
12 Rubber & Leather	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.8	0.78%	0.0	0.00%	0.1	0.10%	0.0	0.00%	0.0	0.00%	0.4	0.37%	0.1	0.11%		
13 Textiles	27.0	10.33%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.6	0.59%	0.0	0.00%	0.0	0.00%	1.8	1.68%	2.9	2.41%		
14 Yard Waste	36.0	13.77%	0.0	0.00%	15.0	14.48%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	16.5	16.36%	0.0	0.00%	24.6	22.91%	9.2	7.56%		
15 Lumber & Logs	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	12.6	12.21%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.3	1.03%		
16 Other Ore Waste	28.0	10.71%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.1	1.07%	0.0	0.00%	0.0	0.00%	0.0	0.00%	14.5	12.53%	1.6	1.49%	4.5	3.71%		
Organic Waste - Subtotal		192.5	73.61%	116.0	98.31%	103.1	99.52%	89.2	89.02%	100.1	97.00%	27.6	26.19%	28.0	27.37%	100.6	99.75%	20.7	17.89%	103.5	96.37%	88.1	72.35%	
17 Inorganic Waste																								
18 Glass	Returnable Bottles	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	
19 Other Live Bottles	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%		
20 Glass bins	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%		
21 Broken Glass	25.0	9.56%	0.5	0.42%	0.0	0.00%	0.0	0.00%	2.3	2.23%	1.6	1.52%	0.0	0.00%	0.0	0.00%	52.0	44.94%	0.0	0.00%	8.1	6.68%		
22 Glass-Subtotal		25.0	9.56%	0.5	0.42%	0.0	0.00%	0.0	0.00%	2.3	2.23%	1.6	1.52%	0.0	0.00%	0.0	0.00%	52.0	44.94%	0.0	0.00%	8.1	6.68%	
23 Metals	Tin Cans (steel cans)	12.0	4.59%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.2	0.99%	
	Aluminum cans	0.0	0.00%	1.5	1.27%	0.5	0.48%	0.0	0.00%	0.0	0.00%	1.2	1.14%	0.0	0.00%	0.2	0.15%	0.0	0.00%	0.3	0.28%	0.4	0.30%	
	Copper	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	
	Other Metals	2.0	0.76%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.2	0.19%	0.0	0.00%	0.2	0.20%	0.0	0.00%	0.0	0.00%	1.5	1.40%	0.4	0.32%	
	Metal-subtotal	14.0	5.35%	1.5	1.27%	0.5	0.48%	0.0	0.00%	0.2	0.19%	1.2	1.14%	0.2	0.20%	0.2	0.15%	0.0	0.00%	1.8	1.68%	2.0	1.60%	
24	Dirt, Ash, Stone, Sand		25.0	9.56%	0.0	0.00%	0.0	0.00%	10.5	10.48%	0.0	0.00%	75.0	71.16%	74.0	72.34%	0.0	0.00%	31.0	26.79%	1.3	1.21%	21.7	17.80%
	Inorganic Waste - Subtotal		64.0	24.47%	2.0	1.69%	0.5	0.48%	10.5	10.48%	2.5	2.42%	77.8	73.81%	74.2	72.53%	0.2	0.15%	83.0	71.74%	3.1	2.89%	31.8	26.08%
25 Unclassified residual waste			0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	12.0	10.37%	0.8	0.74%	1.3	1.05%		
Domestic Hazardous Waste	5.0	1.91%	0.0	0.00%	0.0	0.00%	0.5	0.50%	0.6	0.58%	0.0	0.00%	0.1	0.10%	0.1	0.10%	0.0	0.00%	0.0	0.00%	0.6	0.52%		
Batteries - Dry Cells	5.0	1.91%	0.0	0.00%	0.0	0.00%	0.5	0.50%	0.6	0.58%	0.0	0.00%	0.1	0.10%	0.1	0.10%	0.0	0.00%	0.0	0.00%	0.6	0.52%		
Other Domestic			0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%		
Hazardous Waste	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%		
Total weight		261.5	100.00%	118.0	100.00%	103.6	100.00%	100.2	100.00%	103.2	100.00%	105.4	100.00%	102.3	100.00%	100.9	100.00%	115.7	100.00%	107.4	100.00%	121.8	100.00%	
Total volume		480.0		200.0		180.0		180.0		180.0		180.0		160.0		180.0		160.0		180.0		208.0		
Bulk Density		0.545		0.590		0.576		0.557		0.573		0.586		0.639		0.560		0.723		0.597		0.586		

Table 1.1.42 Waste Composition Ratio (%) in Dandora Dumpsite for Day 1 During Wet Season

Waste Composition		Truck No. 1		Truck No. 2		Truck No. 3		Truck No. 4		Truck No. 5		Truck No. 6		Truck No. 7		Truck No. 8		Truck No. 9		Truck No. 10		Average for Day 1	
		Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Average for Day 1	
1	Food Waste	12.0	8.37%	55.0	49.95%	38.0	37.25%	78.0	62.40%	72.0	67.29%	27.0	24.77%	24.0	24.00%	79.0	73.15%	0.0	0.00%	0.0	0.00%	38.5	34.24%
2	Paper	23.0	16.05%	36.0	32.70%	12.0	11.76%	10.0	8.00%	7.0	6.54%	0.0	0.00%	0.0	0.00%	6.0	5.83%	10.0	8.55%	10.4	9.25%		
3	Recyclable Cardboard	0.0	0.00%	3.0	2.72%	0.0	0.00%	0.0	0.00%	2.0	1.87%	0.0	0.00%	0.0	0.00%	0.0	0.00%	8.5	7.26%	1.4	1.20%		
4	Mixed Paper	0.0	0.00%	0.0	0.00%	0.0	0.00%	6.0	4.80%	0.0	0.00%	14.0	12.84%	0.0	0.00%	0.0	0.00%	10.0	9.71%	6.0	5.13%	3.6	3.20%
5	Diapers	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%
6	<i>Subtotal-Paper</i>	23.0	16.05%	39.0	35.42%	12.0	11.76%	16.0	12.80%	9.0	8.41%	14.0	12.84%	0.0	0.00%	0.0	0.00%	16.0	15.53%	24.5	20.94%	15.4	13.65%
7	Plastics	13.0	9.07%	0.0	0.00%	4.0	3.92%	3.0	2.40%	5.0	4.67%	0.0	0.00%	0.0	0.00%	0.0	0.00%	4.0	3.88%	10.0	8.55%	3.9	3.47%
8	Recyclable Plastics	5.0	3.49%	7.1	6.45%	0.0	0.00%	1.0	0.80%	0.0	0.00%	0.0	0.00%	10.5	10.50%	0.0	0.00%	1.0	0.97%	15.0	12.82%	4.0	3.52%
9	PET Bottles	18.0	12.56%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.5	1.40%	0.0	0.00%	1.5	1.50%	0.0	0.00%	0.0	0.00%	0.0	0.00%	2.1	1.87%
10	Other Plastics	0.0	0.00%	0.0	0.00%	13.0	12.75%	0.0	0.00%	9.0	8.41%	0.0	0.00%	3.0	3.00%	0.0	0.00%	0.0	0.00%	16.5	14.10%	4.2	3.69%
11	<i>Subtotal-Plastics</i>	36.0	25.12%	7.1	6.45%	17.0	16.67%	4.0	3.20%	15.5	14.49%	0.0	0.00%	15.0	15.00%	0.0	0.00%	5.0	4.85%	41.5	35.42%	14.1	12.55%
12	Rubber & Leather	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%
13	Textiles	0.0	0.00%	0.0	0.00%	5.0	4.90%	0.0	0.00%	0.5	0.47%	0.0	0.00%	4.0	4.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.0	0.84%
14	Yard Waste	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	6.0	5.61%	36.0	33.03%	42.0	42.00%	23.0	21.30%	39.0	37.86%	0.0	0.00%	14.6	12.98%
15	Lumber & Logs	27.0	18.84%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	6.0	5.56%	0.0	0.00%	15.0	12.82%	4.8	4.27%		
16	Other Org. Waste	0.0	0.00%	0.0	0.00%	27.0	26.47%	26.0	20.80%	0.0	0.00%	12.0	12.00%	0.0	0.00%	32.0	31.07%	0.0	0.00%	9.7	8.63%		
	<i>Organic Waste - Subtotal</i>	98.0	68.39%	101.1	91.83%	99.0	97.06%	124.0	99.20%	103.0	96.26%	77.0	70.64%	97.0	97.00%	108.0	100.00%	92.0	89.32%	81.0	69.23%	98.0	87.17%
17	<i>Inorganic Waste</i>																						
18	Glass	0.0	0.00%	7.0	6.36%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.0	0.97%	0.0	0.00%	0.8	0.71%
19	Other Live Bottles	0.0	0.00%	1.0	0.91%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.0	0.97%	0.0	0.00%	0.2	0.18%		
20	Glass bins	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	3.0	3.00%	0.0	0.00%	7.0	6.80%	2.0	1.71%	1.2	1.07%
21	Broken Glass	6.0	4.19%	0.0	0.00%	0.0	0.00%	1.0	0.80%	3.0	2.80%	32.0	29.36%	0.0	0.00%	0.0	0.00%	18.5	15.81%	6.1	5.38%		
22	<i>Glass-Subtotal</i>	6.0	4.19%	8.0	7.27%	0.0	0.00%	1.0	0.80%	3.0	2.80%	32.0	29.36%	3.0	3.00%	0.0	0.00%	9.0	8.74%	20.5	17.52%	8.3	7.34%
23	Metals	Tin Cans (steel cans)	11.0	7.68%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.5	0.49%	0.0	0.00%	1.2	1.02%	
	Aluminum cans	0.0	0.00%	0.5	0.45%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.5	0.49%	3.0	2.56%	0.4	0.36%		
	Copper	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%		
	Other Metals	2.3	1.61%	0.0	0.00%	3.0	2.94%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.0	0.97%	2.5	2.14%	0.9	0.78%		
	<i>Metal-subtotal</i>	13.3	9.28%	0.5	0.45%	3.0	2.94%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	2.0	1.94%	5.5	4.70%	2.4	2.16%		
24	Dirt, Ash, Stone, Sand	23.0	16.05%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	10.0	8.55%	3.3	2.93%
	<i>Inorganic Waste - Subtotal</i>	42.3	29.52%	8.5	7.72%	3.0	2.94%	1.0	0.80%	3.0	2.80%	32.0	29.36%	3.0	3.00%	0.0	0.00%	11.0	10.68%	36.0	30.77%	14.0	12.43%
25	<i>Unclassified residual waste</i>	0.0	0.00%	0.5	0.45%	0.0	0.00%	0.0	0.00%	1.0	0.93%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.2	0.13%		
26	Domestic Hazardous Waste	3.0	2.09%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.3	0.27%		
27	Batteries - Dry Cells	3.0	2.09%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.3	0.27%		
	Other Domestic Hazardous Waste	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%		
	<i>Total weight</i>	143.3	100.00%	110.1	100.00%	102.0	100.00%	125.0	100.00%	107.0	100.00%	109.0	100.00%	100.0	100.00%	108.0	100.00%	103.0	100.00%	117.0	100.00%	112.4	100.00%
	<i>Total volume</i>	506.0		240.0		240.0		300.0		160.0		220.0		220.0		280.0		262.6					
	<i>Bulk Density</i>	0.283		0.459		0.425		0.521		0.357		0.681		0.455		0.491		0.418		0.428			

Table 1.1.43 Waste Composition Ratio (%) in Dandora Dumpsite for Day 2 During Wet Season

Waste Composition		Truck No. 1		Truck No. 2		Truck No. 3		Truck No. 4		Truck No. 5		Truck No. 6		Truck No. 7		Truck No. 8		Truck No. 9		Truck No. 10		Average for Day 2			
		Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio		
1	Food Waste	21.5	11.41%	30.0	19.42%	81.5	59.71%	89.5	78.51%	112.0	81.75%	87.2	72.25%	106.0	69.15%	66.0	59.46%	70.0	68.97%	58.0	53.70%	72.2	54.80%		
2	Paper	20.0	10.61%	13.0	8.41%	4.5	3.30%	0.0	0.00%	0.0	0.00%	5.0	4.14%	1.6	1.04%	4.0	3.60%	6.0	5.91%	2.0	1.85%	5.6	4.26%		
3	Recyclable Cardboard	0.0	0.00%	16.0	10.36%	6.0	4.40%	3.0	2.63%	0.0	0.00%	0.0	0.00%	0.0	0.00%	2.0	1.80%	2.0	1.97%	4.0	3.70%	3.3	2.51%		
4	Mixed Paper	0.0	0.00%	21.0	13.59%	0.0	0.00%	0.0	0.00%	14.0	10.22%	0.0	0.00%	2.2	1.44%	3.0	2.70%	1.0	0.99%	0.0	0.00%	4.1	3.13%		
5	Diapers	8.0	4.24%	5.0	3.24%	0.0	0.00%	0.0	0.00%	0.0	0.00%	2.0	1.66%	2.0	1.30%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.7	1.29%		
6	<i>Subtotal-Paper</i>	28.0	14.85%	55.0	35.60%	10.5	7.69%	3.0	2.63%	14.0	10.22%	7.0	5.80%	5.8	3.78%	9.0	8.11%	9.0	8.87%	6.0	5.56%	14.7	11.18%		
7	Plastics	Plastic Sheet	21.0	11.14%	13.0	8.41%	6.0	4.40%	0.0	0.00%	0.0	0.00%	8.0	6.63%	0.0	0.00%	9.0	8.11%	8.0	7.88%	6.0	5.56%	7.1	5.39%	
8	Recyclable Plastics	6.0	3.18%	21.0	13.59%	9.5	6.96%	0.0	0.00%	0.0	0.00%	1.5	1.24%	1.5	0.98%	0.0	0.00%	0.0	0.00%	0.0	0.00%	4.0	3.00%		
9	PET Bottles	17.5	9.28%	6.5	4.21%	0.0	0.00%	9.5	8.33%	0.5	0.36%	0.0	0.00%	0.8	0.52%	2.0	1.80%	0.0	0.00%	2.0	1.85%	3.9	2.95%		
10	Other Plastics	0.0	0.00%	0.0	0.00%	3.5	2.56%	5.0	4.39%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.9	0.65%		
11	<i>Subtotal-Plastics</i>	44.5	23.61%	40.5	26.21%	19.0	13.92%	14.5	12.72%	0.5	0.36%	9.5	7.87%	2.3	1.50%	11.0	9.91%	8.0	7.88%	8.0	7.41%	15.8	11.98%		
12	Rubber & Leather	0.0	0.00%	8.5	5.50%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.9	0.65%		
13	Textiles	3.5	1.86%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	2.0	1.80%	4.0	3.94%	1.0	0.93%	1.1	0.80%		
14	Yard Waste	5.0	2.65%	0.0	0.00%	12.0	8.79%	0.0	0.00%	0.0	0.00%	0.0	0.00%	37.0	24.14%	18.0	16.22%	8.0	7.88%	12.0	11.11%	9.2	6.99%		
15	Lumber & Logs	34.0	18.04%	0.0	0.00%	3.0	2.20%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	3.7	2.81%				
16	Other Org. Waste	26.0	13.79%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	2.6	1.97%				
	<i>Organic Waste - Subtotal</i>			162.5	86.21%	134.0	86.73%	126.0	92.31%	107.0	93.86%	126.5	92.34%	103.7	85.92%	151.1	98.56%	106.0	95.50%	99.0	97.54%	85.0	78.70%	120.1	91.18%
17	<i>Inorganic Waste</i>																								
18	Glass	Returnable Bottles	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.5	0.44%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.5	1.39%	0.2	0.15%	
19	Other Live Bottles	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.5	0.49%	0.0	0.00%	0.1	0.04%		
20	Glass bins	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.0	0.90%	0.0	0.00%	0.0	0.00%	0.1	0.08%		
21	Broken Glass	0.0	0.00%	12.0	7.77%	1.0	0.73%	0.0	0.00%	0.0	0.00%	10.0	8.29%	0.0	0.00%	3.0	2.70%	1.0	0.99%	0.5	0.46%	2.8	2.09%		
22	<i>Glass-Subtotal</i>	0.0	0.00%	12.0	7.77%	1.0	0.73%	0.5	0.44%	0.0	0.00%	10.0	8.29%	0.0	0.00%	4.0	3.60%	1.5	1.48%	2.0	1.85%	3.1	2.35%		
23	Metals	Tin Cans (steel cans)	2.0	1.06%	0.0	0.00%	1.5	1.10%	0.5	0.44%	0.0	0.00%	1.5	1.24%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.6	0.42%			
	Aluminum cans	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	2.2	1.44%	0.0	0.00%	0.0	0.00%	0.2	0.17%				
	Copper	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%				
	Other Metals	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.0	0.90%	1.0	0.99%	3.0	2.78%	0.5	0.38%				
	<i>Metal-subtotal</i>	2.0	1.06%	0.0	0.00%	1.5	1.10%	0.5	0.44%	0.0	0.00%	1.5	1.24%	2.2	1.44%	1.0	0.90%	1.0	0.99%	3.0	2.78%	1.3	0.96%		
24	Dirt, Ash, Stone, Sand		13.0	6.90%	8.5	5.50%	8.0	5.86%	6.0	5.26%	10.5	7.66%	5.5	4.56%	0.0	0.00%	0.0	0.00%	0.0	0.00%	18.0	16.67%	7.0	5.28%	
	<i>Inorganic Waste - Subtotal</i>			15.0	7.96%	20.5	13.27%	10.5	7.69%	7.0	6.14%	10.5	7.66%	17.0	14.08%	2.2	1.44%	5.0	4.50%	2.5	2.46%	23.0	21.30%	11.3	8.60%
25	Unclassified residual waste																								
	Domestic Hazardous Waste																								
26	Batteries - Dry Cells																								
27	Other Domestic Hazardous Waste																								
	Total weight			188.5	100.00%	154.5	100.00%	136.5	100.00%	114.0	100.00%	137.0	100.00%	120.7	100.00%	153.3	100.00%	111.0	100.00%	101.5	100.00%	108.0	100.00%	131.7	100.00%
	Total volume			467.0		200.0		220.0		200.0		280.0		200.0		260.0		200.0		200.0		220.0		244.7	
	Bulk Density			0.404		0.773		0.620		0.570		0.489		0.604		0.590		0.555		0.508		0.491		0.538	

Table 1.1.44 Waste Composition Ratio (%) in Dandora Dumpsite for Day 3 During Wet Season

Waste Composition		Truck No. 1		Truck No. 2		Truck No. 3		Truck No. 4		Truck No. 5		Truck No. 6		Truck No. 7		Truck No. 8		Truck No. 9		Truck No. 10		Average for Day 3		
		Weight (kgs)	Composition Ratio	Weight (kgs)	Composition Ratio																			
1	Food Waste	18.6	15.22%	102.0	85.14%	71.0	33.32%	79.0	57.66%	88.0	53.92%	28.0	21.37%	82.0	41.84%	0.0	0.00%	54.0	26.02%	100.0	76.57%	62.3	39.46%	
2	Paper	14.0	11.46%	0.0	0.00%	3.6	1.69%	0.0	0.00%	12.0	7.35%	19.0	14.50%	6.0	3.06%	12.5	7.75%	10.0	4.82%	1.6	1.23%	7.9	4.99%	
3	Recyclable Cardboard	0.0	0.00%	0.0	0.00%	2.0	0.94%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.0	0.51%	0.0	0.00%	4.0	1.93%	0.0	0.00%	0.7	0.44%	
4	Mixed Paper	1.0	0.82%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	20.7	12.84%	0.0	0.00%	2.0	1.53%	2.4	1.50%	
5	Drapers	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	
6	<i>Subtotal-Paper</i>	15.0	12.27%	0.0	0.00%	5.6	2.63%	0.0	0.00%	12.0	7.35%	19.0	14.50%	7.0	3.57%	33.2	20.60%	14.0	6.75%	3.6	2.76%	10.9	6.93%	
7	Plastics	19.0	15.55%	0.0	0.00%	11.0	5.16%	0.0	0.00%	22.0	13.48%	1.0	0.76%	17.0	8.67%	3.2	1.99%	16.0	7.71%	0.0	0.00%	8.9	5.65%	
8	Recyclable Plastics	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	3.0	2.29%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.3	0.19%	
9	PET Bottles	15.0	12.27%	1.6	1.34%	0.0	0.00%	0.0	0.00%	1.6	0.98%	0.0	0.00%	0.0	0.00%	2.0	1.24%	0.5	0.24%	2.6	1.99%	2.3	1.48%	
10	Other Plastics	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	
11	<i>Subtotal-Plastics</i>	34.0	27.82%	1.6	1.34%	11.0	5.16%	0.0	0.00%	23.6	14.46%	4.0	3.05%	17.0	8.67%	5.2	3.23%	16.5	7.95%	2.6	1.99%	11.6	7.32%	
12	Rubber & Leather	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	4.0	3.05%	0.0	0.00%	2.8	1.74%	0.0	0.00%	0.0	0.00%	0.7	0.43%	
13	Textiles	3.0	2.45%	0.0	0.00%	4.0	1.88%	0.0	0.00%	0.0	0.00%	69.0	52.67%	4.0	2.04%	0.0	0.00%	0.0	0.00%	0.0	0.00%	8.0	5.07%	
14	Yard Waste	2.6	2.13%	15.0	12.52%	35.0	16.42%	58.0	42.34%	34.0	20.83%	0.0	0.00%	21.0	10.71%	0.0	0.00%	54.0	26.02%	16.8	12.86%	23.6	14.98%	
15	Lumber & Logs	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	16.0	9.93%	0.0	0.00%	0.0	0.00%	1.6	1.01%			
16	Other Org. Waste	14.3	11.70%	0.0	0.00%	28.2	13.23%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	4.3	2.69%	
	<i>Organic Waste - Subtotal</i>	87.5	71.60%	118.6	99.00%	154.8	72.64%	137.0	100.00%	157.6	96.57%	124.0	94.66%	131.0	66.84%	57.2	35.48%	138.5	66.75%	123.0	94.18%	122.9	77.91%	
17	Inorganic Waste																							
18	Glass	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.0	0.76%	0.0	0.00%	0.0	0.00%	1.0	0.48%	0.0	0.00%	0.2	0.13%	
19	Other Live Bottles	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.0	0.76%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.1	0.06%	
20	Glass bins	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.0	0.61%	4.0	3.05%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.5	0.32%	
21	Broken Glass	0.0	0.00%	1.2	1.00%	45.5	21.35%	0.0	0.00%	2.0	1.23%	0.0	0.00%	0.0	0.00%	64.0	39.70%	11.0	5.30%	0.0	0.00%	12.4	7.84%	
22	<i>Glass-Subtotal</i>	0.0	0.00%	1.2	1.00%	45.5	21.35%	0.0	0.00%	3.0	1.84%	6.0	4.58%	0.0	0.00%	64.0	39.70%	12.0	5.78%	0.0	0.00%	13.2	8.35%	
23	Metals	5.0	4.09%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.5	0.32%	
	Aluminum cans	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.8	0.61%	0.1	0.05%	
	Copper	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	
	Other Metals	1.2	0.98%	0.0	0.00%	12.0	5.63%	0.0	0.00%	1.0	0.76%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	1.4	0.90%	
	<i>Metal-subtotal</i>	6.2	5.07%	0.0	0.00%	12.0	5.63%	0.0	0.00%	1.0	0.76%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.8	0.61%	2.0	1.27%	
24	Dirt, Ash, Stone, Sand	26.3	21.52%	0.0	0.00%	0.0	0.00%	0.0	0.00%	2.6	1.59%	0.0	0.00%	65.0	33.16%	40.0	24.81%	57.0	27.47%	6.0	4.59%	19.7	12.48%	
	<i>Inorganic Waste - Subtotal</i>	32.5	26.60%	1.2	1.00%	57.5	26.98%	0.0	0.00%	5.6	3.43%	7.0	5.34%	65.0	33.16%	104.0	64.52%	69.0	33.25%	6.8	5.21%	34.9	22.09%	
25	Unclassified residual waste	0.0	0.00%	0.0	0.00%																			
Domestic Hazardous Waste		2.2	1.80%	0.0	0.00%	0.8	0.38%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.8	0.61%	0.0	0.00%	
Batteries - Dry Cells		2.2	1.80%	0.0	0.00%	0.8	0.38%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.8	0.61%		0.00%	
Other Domestic Hazardous Waste		0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	0.0	0.00%	
Total weight		122.2	100.00%	119.8	100.00%	213.1	100.00%	137.0	100.00%	163.2	100.00%	131.0	100.00%	196.0	100.00%	161.2	100.00%	207.5	100.00%	130.6	100.00%	157.8	100.00%	
Total volume		480.0		240.0		180.0		280.0		180.0		280.0		260.0		280.0		280.0		220.0		268.0		
Bulk Density		0.255		0.499		1.184		0.489		0.907		0.468		0.754		0.576		0.741		0.594		0.589		

Table 1.1.45 Three Content Analysis of Each Generator Sources

Generation Source	Wet Season						Dry Season						Average		
	Moisture Content (%)				Ash Content	Combustible	Moisture Content (%)				Ash Content	Combustible	Moisture Content	Ash Content	Combustible
	Day 1	Day 2	Day 3	Average	(%)	(%)	Day 1	Day 2	Day 3	Average	(%)	(%)	(%)	(%)	(%)
Residential Area															
High Income	81.08	86.50	83.20	83.59	3.86	15.06	77.45	75.10	73.60	75.38	11.74	10.81	79.27	7.80	12.94
Middle Income	72.26	79.61	77.80	76.56	0.45	27.29	74.55	76.30	71.50	74.12	8.80	16.65	73.41	4.63	21.97
Low-Middle Income	73.24	74.50	76.00	74.58	1.01	25.75	73.50	70.45	72.63	72.19	3.92	22.58	73.37	2.47	24.17
Low Income	66.70	71.00	75.12	70.94	5.82	27.48	68.90	71.24	69.70	69.95	2.48	28.62	67.80	4.15	28.05
Slum	75.51	72.32	70.10	72.64	2.96	21.53	43.20	65.40	66.50	58.37	1.49	55.31	59.36	2.23	38.42
Commercial Establishment															
Restaurant	80.80	64.35	74.75	73.30	12.07	7.13	64.45	52.85	47.10	54.80	15.21	20.34	72.63	13.64	13.74
Shops	12.20	10.05	35.50	19.25	34.10	53.70	3.02	0.98	1.66	1.89	32.25	64.73	7.61	33.18	59.22
Hotel/Guest Houses	77.20	72.00	68.20	72.47	22.23	0.57	78.05	73.90	67.30	73.08	16.03	5.92	77.63	19.13	3.25
Public Facilities	35.68	45.23	32.50	37.80	12.16	52.16	14.85	11.97	6.86	11.23	28.44	56.71	25.27	20.30	54.44
Market	75.65	65.20	70.50	70.45	10.47	13.88	91.85	83.20	68.90	81.32	3.47	4.68	83.75	6.97	9.28
Street Waste	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sample from Waste Collection Vehicles at Landfill Site	51.32	37.44	51.79	46.85	16.47	32.21	47.10	41.67	32.36	10.60	42.30	10.60	28.72	29.38	41.89