Appendix K Waste Flow Table



Monthly Summary Waste Flow Table for

2018

(year)

Project : Integrated Waste Management Facilities, Phase 1

Contract No.: EP/SP/66/12	
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	Actual Quantities of Inert C&D Materials Generated Monthly									Actual Quantities of C&D Wastes Generated Monthly						
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill (see Note 4)	Imported Fill Sand (see Note 4)	Imported Fill Public fill (see Note 4)	Imported Fill Rock (see Note 4)	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemica	l Waste	Others, e.g. general refuse (see Note 3)		
	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³	(in ,000m ³)	(1	$(n,000m^3)$	1	(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³)		
Jan	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Feb	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Jun	0	0	0	0	0	0	0	0	0	0	0	0 0		0		
Sub-total	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0065		
Sep	0	0	0	0	0	2.9619	0	0	0	0	0	0	0	0		
Oct	0	0	0	0	0	3.0771	0	0	0	0	0	0	0	0.0130		
Nov	0	0	0	0	0	6.7871	0	0	0	0	0	0	0	0		
Dec	0	0	0	0	0	59.0709	0	0	0	0	0	0.2000	0.8700	0		
Total	0	0	0	0	0	71.8970	0	0	0	0	0	0.2000	0.8700	0.0195		

Notes:

(1) Broken concrete for recycling into aggregates.

Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials. (2)

Use the conversion factor : 1 full load of dumping truck being equivalent to $6.5m^3$ by volume. (3)

Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$ (4)



Monthly Summary Waste Flow Table for _____

<u>2019 (year)</u>

Project : Integrated Waste Management Facilities, Phase 1 Contract No.: EP/SP/66/12 Actual Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated Monthly Imported Imported Imported Hard Rock Fill Fill Fill and Large Reused in Disposed as Others, e.g. general Total Reused in Paper/ Month Broken Public Rock Plastics Sand refuse Public Fill cardboard **Chemical Waste** the other Metals Quantity (see Note 2) Concrete fill (see Note (see Note packaging Generated Contract Projects (see Note 4) (see Note 3) (see Note (see Note 4) 4) 1) 4) $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in, 000m^3)$ $(in, 000m^3)$ (in ,000kg) (in ,000kg) (in ,000 kg) (in ,000kg) (in ,000L) $(in, 000 \text{ m}^3)$ 0 0 0 0 0 82.6139 0 0 0 0 0 0 0 0.0065 Jan 46.7821 Feb 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 97.1000 0 0.7552 0 0.2560 0 0 0 0 Mar 0 0 0 0 0 0 0 0 0 0 58.0413 0 0 0 Apr 0 0 0 0 0 14.5625 0 1.4648 0 0 0 0 0 0.0065 May 0 0 0 0 0 0 0 6.8421 0 0 0 0 0 0 Jun 0 0 0 Sub-total 0 0 0 0 299.0998 0 9.0621 0 0.2560 0 0.0130 0 0 0 0 0 0 0 0 0 0 0.4289 0 8.4000 0.0130 Jul 0 0 0 0 0 2.5775 0 10.5600 0 0 0 0 0 0 Aug 6.1081 Sep 0 0 0 0 0 0 8.4704 0 0.3530 0 0 0 0.0065 0 0 0 0 0 9.8875 0 7.1900 0 0 0 0 0 0 Oct 0 0 0 0 0 0 Nov 0 38.3088 0 19.3105 0 0 0 0.0195 0 0 0 0 0 Dec 0 0 0 54.3469 26.9807 0 0 0 0.0910 0 0 0 0 0 410.3286 0 82.0026 0 0.6090 0 0 8.4000 Total 0.1430

Notes:

(1) Broken concrete for recycling into aggregates.

(2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.

(3) Use the conversion factor : 1 full load of dumping truck being equivalent to $6.5m^3$ by volume.

(4) Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$



Monthly Summary Waste Flow Table for

2020 (year)

Contract No.: EP/SP/66/12

Project : Integrated Waste Management Facilities, Phase 1 Actual Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated Monthly Imported Imported Imported Hard Rock Fill Fill Fill and Large Reused in Disposed as Others, e.g. general Total Reused in Paper/ Month Broken Public Rock Plastics Sand Public Fill refuse **Chemical Waste** the other Metals cardboard Quantity (see Note 2) Concrete fill (see Note (see Note packaging Generated Contract Projects (see Note 4) (see Note 3) (see Note (see Note 4) 4) 1) 4) $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in, 000m^3)$ $(in, 000m^3)$ (in ,000kg) (in ,000 kg) (in ,000kg) (in ,000kg) (in ,000L) $(in, 000 \text{ m}^3)$ 0 0 0 0 0 37.1550 25.0812 0 0 0 0 0 0.0065 Jan 0 27.7910 Feb 0 0 0 0 0 0 18.8300 0 0 0 0 0 0.0065 0 0 0 0 0 22.5669 0 0 0 0 0 7.2000 0.0065 Mar 26.1586 0 0 0 0 0 0 0 0 0 12.7800 0 10.1825 0 0.0195 Apr 0 0 0 0 0 16.1138 0 24.3740 0 0.4220 0 0 0 0.0195 May 0 0 0 0 0 31.5177 0 28.3030 0 0 0 0 0 0.0065 Jun 0 0 Sub-total 0 0 0 0 0 147.9244 132.9293 0 0.4220 0 7.2000 0.0650 0 0 0 0 0 0 34.7856 17.0606 35.1800 0 0 0 0 0.0195 Jul 65.5667 0 0 0 0 0 27.1375 27.9335 0 0 0 0 0 0 Aug 110.1328 43.5435 Sep 0 0 0 0 0 11.9813 0 0 0 0 0 0.0195 0 0 0 0 0 2.8213 131.6600 22.5415 0 0 0 0 0 0.0130 Oct 0 0 0 0 0 Nov 0 0 162.1811 44.6475 0.4090 0 0 0.4000 0.0130 174.9800 57.8380 0 0 0 Dec 0 0 0 0 0 0 0 0 0.0130 0 0 224.6501 661.5812 364.6133 0 0 0 0 0.8310 0 0 7.6000 Total 0.1430

Notes:

Broken concrete for recycling into aggregates. (1)

Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials. (2)

Use the conversion factor : 1 full load of dumping truck being equivalent to $6.5m^3$ by volume. (3)

Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$ (4)



Monthly Summary Waste Flow Table for

2021

(year)

Project : In	ject : Integrated Waste Management Facilities, Phase 1									Contract No.: EP/SP/66/12						
Actual Quantities of Inert C&D Materials Generated Monthly									Actual Quantities of C&D Wastes Generated Monthly							
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill (see Note 4)	Imported Fill Sand (see Note 4)	Imported Fill Public fill (see Note 4)	Imported Fill Rock (see Note 4)	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste		Others, e.g. general refuse (see Note 3)		
	$(in,000m^3)$	(in ,000m ³)	(in ,000m ³)	(in ,000m ³	$(in,000m^3)$		$(in,000m^3)$	1	(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³)		
Jan	0	0	0	0	0	0	198.1311	36.4775	0	0	0	0	0	0.0065		
Feb	0	0	0	0	0	0	143.9511	20.9960	0	0	0	0	0	0.6305		
Mar	0	0	0	0	0	0	103.1833	23.4510	0	0	0	0	0	0.0130		
Apr	0	0	0	0	0	0	161.2956	27.2810	0	0	0	0	0	0.0130		
May	0	0	0	0	0	0	193.3300	20.5265	0	0	0	0	0	0.0715		
Jun	0	0	0	0	0	0	141.5728	23.7825	0	0.2440	0	0	0	0.0455		
Sub-total	0	0	0	0	0	0	941.4639	152.5145	0	0.2440	0	0	0	0.7800		
Jul	0	0	0	0	0	0	105.1083	30.6065	0	0	0	0	0	0.0195		
Aug	0	0	0	0	0	0	11.1822	7.5180	0	0	0	0	0	0.0130		
Sep	0	0	0	0	0	0	0	5.7575	0	0	0	0	0.6000	0.0390		
Oct	0	0	0	0	0	0	0	6.8885	0	0	0	0	0	0		
Nov	0	0	0	0	0	0	0	6.2975	0	0.1610	0	0	0	0.0130		
Dec	0	0	0	0	0	0	0	5.9235	0	0	0	0	0	0		
Total	0	0	0	0	0	0	1057.7544	215.5060	0	0.4050	0	0	0.6000	0.8645		

Broken concrete for recycling into aggregates. (1)

Notes:

Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials. (2)

(3) Use the conversion factor : 1 full load of dumping truck being equivalent to 6.5m³ by volume.

Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$. (4)



Monthly Summary Waste Flow Table for _____

<u>2022 (year)</u>

Project : Integrated Waste Management Facilities, Phase 1 Contract No.: EP/SP/66/12 Actual Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated Monthly Hard Rock Imported Imported Imported Reused in and Large Fill Fill Fill Others, e.g. general Disposed as Total Reused in other Paper/ Month Broken Plastics Public fill Sand Rock refuse Projects Public Fill Metals cardboard Chemical Waste Quantity the Concrete (see Note 2) (see Note (see Note (see Note packaging Generated Contract (see Note (see Note 4) (see Note 3) (see Note 4) 4) 4) 4) 1) $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ (in ,000 kg) (in ,000kg) (in ,000kg) (in ,000kg) (in .000L) $(in,000 \text{ m}^3)$ 0 0 0 0 0 0 4.9389 0 0 0 0 2.7070 0.1550 0.0715 Jan 0 0 0 0 0 0 3.2478 0 0 0 0 Feb 4.0290 0.4000 0.2250 0 0 0 0 0 0 2.3422 2.7820 0 0 0 0 0 0.0780 Mar 0 0 0 0 0 0 Apr 18.2189 5.8100 0 0.3120 0 0 0 0.1495 0 0 0 0 0 0.0648 0 0.0648 16.7711 0 0 0 May 17.2320 0.0975 0 0 0 0.0037 0 0.0037 0.2115 1.1128 14.1470 36.3000 0.3890 0 1.7250 0.0975 Jun 0.0685 0 0 0 0.0685 0.2115 46.6317 46.7070 36.3000 0.8560 0 0.4000 1.9500 0.4940 Sub-total 25.7183 0 0 25.7183 0 0.1125 0.8333 17.5210 0 0.6400 0.0060 0 0 0.1235 Jul Aug Sep Oct Nov Dec Total 25.7868 0 0 25.7183 0.0685 0.3240 47.4650 64.2280 36.3000 1.4960 0.0060 0.4000 1.9500 0.6175

(1) Broken concrete for recycling into aggregates.

Notes:

(2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.

(3) Use the conversion factor : 1 full load of dumping truck being equivalent to 6.5m^3 by volume.

(4) Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$.