Scenario	3: 1	Decommi	issionin	g of	Fill	Bank

														, , , , , , , , , , , , , , , , , , ,		*8			Peak	Normal	Non-Peak	&·	
ID	Source	Detailed Emission Source	Source Type	Location	x	Υ	1	Peak Hourt	y Trucklo	ad	Normal Hourly Truckload				Non-Peak Hourly Truckload			kload	1		Emission Rate	Unit	Note
1	Fill Bank	Wind Erosion	Area	A5	Please ref	er to figure		80	<del>.</del>		NA NA								8.080E-07	8.080E-07	8.080E-07	g/m²/s	а
2	Fill Bank	Material Handling - loading/unloading	Area	SP7	Please ref	er to figure					. }	0.625 0.62			325		2.486E-08	2.486E-08	2.486E-08	g/m²/s	ь		
3	Fill Bank	No established and an angular transport and property and the second and the secon		SP8	Please ref	er to figure		0.0	325		0.625			0.625			2.486E-08	A		-	b		
4	Fill Bank		Sec. A	otsessource of	Please ref	-				0.625				0.625				2.486E-08	2.486E-08			ь	
5	Fill Bank		and the state of t	Carrier I	Please ref	non		THE PERSON OF TH	525		0.625				0.625				2.486E-08	A 302100000000000000000000000000000000000	White construction and the second		ь
6	Fill Bank		The state of the s	Andrea destruction of the	Please ref					30.3				30.3			1.205E-06	1.205E-06			b		
7	Fill Bank		Area		Please ref	and the same of th	CONTROL COLUMN C			30.3				30.3			1.205E-06	1.205E-06	<del></del>	T	b		
8	<del></del>		Area		Please ref	100	N.	120	0.3		30.3				30.3			1.205E-06	1.205E-06			b	
a ·	Fill Bank				Please ref					4-00	30.3			····	30.3			1.205E-06	1.205E-06	**************************************		h	
10		\$		BP5	810917					<u> </u>	<u> </u>	40.		40.9				0.0163	<del></del>	4	The second second second	b	
11	\$	Screening		SF2	811089	201, GPC (CDC)					\$ 3	75.	100 March 100 Ma		75.8				0.363	· · · · · · · · · · · · · · · · · · ·	<del>• · · · · · · · · · · · · · · · · · · ·</del>		c
		Material Handling - loading/unloading (2 opns)		SF2	811089	UD. 10 / CC   CV   CV   CV   CV   CV   CV   CV	17 M SOUR HITE V 11					75.			75.8				0.0603		<del>+</del>		b
				SFB1	811003	824876	in the state of th				37.9					0.0151	<del>• • • • • • • • • • • • • • • • • • • </del>	<del></del>		ь			
14	PBR2 Sorting Facility	Material Handling - loading/unloading	Point	SFB2	811045	824848					37.9			93.00	37.9			0.0151	0.0151	0.0151	g/s	ь	
15	C&DMSF	Oversized material crushing		SF1	811179	824897	7.8			7.8			38	7.8			44	0.000819	0.000819	0.000819	g/s	С	
16	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Compared to the Control of the Contr		SF1	811179	824897	7.8			7.8				7.8				0.0373	0.0373	0.0373	g/s	С	
17	C&DMSF	Material Handling - loading/unloading (2 opns)	Point	SF1	811179	824897		7.8		7.8				7.8				0.006205	0.006205	0.006205	g/s	b	
			<u>.</u>	92				Peak Hourl	y Trucklo	ad	No	Normal Hourly Truckload		ad	Non-Peak Hourly Truckload		kload	9					
in	Source	Detailed Emission Source	Source Type	Location	x	v	Unladen	Public fill	Mixed material laden	Waste laden	Unladen	Public fill	Mixed material laden	Waste laden	Unlade	1	Mixed materia I laden			Normal Emission Rate	Non-Peak Emission Rate	linit	Note
18		Road Emission (A)+(B)+(E)	Line	R1	Please ref				141141114			4.50		5.2	<del>                                     </del>	2.5	4.3	5.2		+	+		d
19-21				R2+ R3+ R4			V	9			7.0	7.0			5	5	8	7-3	0.0001143		0.0000635		d
22-23					Please ref			2.5	11,1	5.2	15.5	2.5		5.2	12	2.5	4.3	5.2					d
24-25	Fill Bank	Road Emission (F)	Line		Please ref			40.9			40.9	40.9			40.9	40.9		102 B 20	0.000520		0.000520		ď
26	Fill Bank	Road Emission (C)	Line	R13c	Please ref	er to figure	9	9			7	7	<u> </u>		5	5			0.000384	0.000298	0.000213	g/m/s	е
27	Fill Bank				Please ref		v		-	2	116.7	116.7			116.7	116.7			0.004976	0.004976			е
28-30		Road Emission (C)/4	and the second s	R15c-R17c	The state of the s						1.75				1.25	3000 <del>00</del> 00			0.0000959	0.0000746	<del></del>		е
31-33	Fill Bank	Road Emission (D)+(F)/4	Line	R18c-R20c	Please ref	er to figure	29.2	29.2	400 004 400 004	110010000000 7115000	29.2	29.2			29.2	29.2			0.001244	0.001244	0.001244	g/m/s	е

## Note

- Emission rate derived for wind erosion based on USEPA AP-42 Section 11.9 (edition 10/98), E (Mg/ha/yr) = 0.85
  - Control efficiency = 70%
- Emission rate for material handling derived based on USEPA AP-42 Section 13.2.4 (edition 01/95), E (kg/Mg) = k(0.0016)(U/2.2)<sup>1.3</sup>/(M/2)<sup>1.4</sup>

Where k = 0.74, U = 2.4 m/s, M = 2.0%

Capacity of a typical truck = 10.8 tons

(Information from CED)

- Control efficiency = 90% (USEPA AP-42 Section 13.2.4.4 - Control efficiency up to 90% by continuous chemical treating of materials, coupled with watering)
- Emission rate for overszed material crushing/screening derived based on USEPA AP-42 Section 11.19.2 (edition 01/95), E (kg/Mg) = 0.00035 kg/Mg and 0.01596 kg/Mg for crushing and screening respectively

Capacity of a typical truck = 10.8 tons (Information from CED)

- Control efficiency = 90% (Control Techniques for Particulate Emissions from Stationary Sources Vo..2 Section 9.7.1.2.2 - efficiency is more than 99% for fabric filters with continuous cleaning)
- Emission rates for paved haul road based on USEPA AP-42 Section 13.2.1 (edition 10/97) E (kg/v-km) = k(sL/2)0.65(W/3)1.5/500

Where k = 24, sL = 2.4

(silt loading based on Table 13.2.1-3 - quarry in AP-42)

- W = 14 ton (unladen), 24.8 ton (public fill laden), 21 ton (mixed material laden), 19.2 ton (waste laden) (Information based on typical unladen truck weight and typical truckload capacity) Control efficiency = 95%
- (Control Techniques for Particulate Emissions from Stationary Sources Vo..2 Section 9.12.2.2.1 a dust control efficiency of up to 95% is achievable when a dust suppression chemical is used)
- Emission rates for unpaved road based on USEPA AP-42 Section 13.2.2 (edition 09/98) E (kg/v-km) = k(s/12)a(W/3)b/(M/0.2)c(S/15)

(average vehicle speed = 10km/h; moisture content of 2% same as b, silt content based on Table 13.2.2-1 - material storage area for sand/ gravel processing in AP-42;) Where k = 10, a = 0.8, b = 0.5, c = 0.4, S = 6.2 mph, M = 2%, s = 7.1%

W = 14 ton (unladen) & 24.8 ton (laden) (Information based on typical unladen and laden truck weight)

> Control efficiency = 90% (Control Techniques for Particulate Emissions from Stationary Sources Vo..2 Section 9.12.2.2.1 - a dust control efficiency of up to 95% is achievable when a dust suppression chemical is used)

Particle distribution - 80% (30mm) & 20% (10mm)

(Guide to Rock and Soil Descriptions issued by Geotechnical Control Office, Civil Engineering Department, Hong Kong (1988))

- From Outside to C&DMSF
- 1 truck carries 7 tonnes, 500 tonnes of sorted material estimated, daily vehicle trip = 85.7\*0.13 = 11.1, normal hourly vehicle trip = 85.7/11 = 7.8, non-peak hourly vehicle trip = 85.7\*0.05 = 4.3
- From C&DMSF to Landfill
  - 1 truck carries 5.2 tonnes, 300 tonnes of waste estimated, daily vehicle trip = 300/5.2 = 57.7, peak/normal/non-peak hourly vehicle trip = 57.7/11 = 5.2
- From C&DMSF to Stockpiled Area
  - 1 truck carries 10.8 tonnes, 300 tonnes of sorted material estimated, daily vehicle trip = 300/10.8 = 27.8, peak/normal/non-peak hourly vehicle trip = 27.8/11 = 2.5
- From Stockpiled Area to PBR2 Sorting Facility
  - 1 truck carries 10.8 tonnes, 9,000 tons of daily capacity, daily vehicle trip = 9000/10.8 = 833.3, peak/normal/non-peak hourly vehicle trip = 833.3/11=75.8
- From Stockpiled Area to Outside
  - 1 truck carries 10.8 tonnes, 500\*10%=50 daily vehicle trip, peak hourly vehicle trip = 50\*0.13=6.5, normal hourly vehicle trip = 50/11=4.5, non-peak hourly vehicle trip = 50\*0.05=2.5
- From Stockpiled Area to Barging Point
  - 1 truck carries 10.8 tonnes, 500\*90%=450 daily vehicle trip, peak/normal/non-peak hourly vehicle trip = 450/11=40.9