

Appendix 12.1 Calculations of Emission Rates

Location	Source	Emission Factors	Emission Rates	Parameters	Remarks
Shek Kong Works Area	Cut & Cover Area & Stockpile Area Source ID: SK1-SK45	Heavy Construction Area Source (g/m ² /s)	3.11343E-06	TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression Emission height (m)	2.69 from AP-42, S13.2.3, 1/95 ed. 15 from engineer 90 for watering ten times a day 0
		Wind erosion E (g/m ² /s) (For night-time only)	4.04300E-07	TSP emission factor (Mg/hectare/yr) Percentage area actively operating (%) % of dust suppression Emission height (m)	0.85 AP-42, 5th ed., Table 11.9.4 15 from engineer 0 0
Tse Uk Tsuen Works Area	Construction Sites Haul Road (g/m/s) Source ID: HR1A, HR1B, HR1C, HR1D, HR2A, HR2B, HR2C, HR2D	Haul Road (g/m/s)	1.57891E-04	TSP emission factor (g/VKT) Particle size multiplier, k (g/VKT) Road silt loading (g/m ² , sL) Average truck weight (tons), W E (g/VKT) No. of truck trips per day No. of truck trips per day no. of operation hour (hr) % of dust suppression (For Haul Road HR1A to HR1D) % of dust suppression (For Haul Road HR2A to HR2D) Road width (m) Emission height (m)	$E=k \times (sL/2)^{0.65} \times (W/3)^{1.5}$ AP-42, Section 13.2.1, 11/06 ed. 24 AP-42, Section 13.2.1, Table 13.2.1-1, 11/06 ed. 12 AP-42, Section 13.2.1, Table 13.2.1-4, 11/06 ed. 16 The average weight of the empty truck and full load truck 947 calculated 732 from engineer 420 from engineer 12 from engineer(7:00-19:00) 97.5 97.5% watering haul road once per hour and keeping haul road in wet condition 97.5 97.5% watering haul road once per hour and keeping haul road in wet condition 6 from engineer 0.5
		Haul Road (g/m/s)	1.57891E-04	TSP emission factor (g/VKT) Particle size multiplier, k (g/VKT) Road silt loading (g/m ² , sL) Average truck weight (tons), W E (g/VKT) No. of truck trips per day no. of operation hour (hr) % of dust suppression Road width (m) Emission height (m)	$E=k \times (sL/2)^{0.65} \times (W/3)^{1.5}$ AP-42, Section 13.2.1, 11/06 ed. 24 AP-42, Section 13.2.1, Table 13.2.1-1, 11/06 ed. 12 AP-42, Section 13.2.1, Table 13.2.1-4, 11/06 ed. 16 The average weight of the empty truck and full load truck 947 calculated 72 from engineer 12 from engineer(7:00-19:00) 90 90%, keeping haul road in wet condition 6 from engineer 0.5
Pat Heung Works Area	Construction Sites Haul Road (g/m/s) Source ID: HR5A, HR5B, HR5C	Haul Road (g/m/s)	3.15781E-04	TSP emission factor (g/VKT) Particle size multiplier, k (g/VKT) Road silt loading (g/m ² , sL) Average truck weight (tons), W E (g/VKT) No. of truck trips per day no. of operation hour (hr) % of dust suppression Road width (m) Emission height (m)	$E=k \times (sL/2)^{0.65} \times (W/3)^{1.5}$ AP-42, Section 13.2.1, 11/06 ed. 24 AP-42, Section 13.2.1, Table 13.2.1-1, 11/06 ed. 12 AP-42, Section 13.2.1, Table 13.2.1-4, 11/06 ed. 16 The average weight of the empty truck and full load truck 947 calculated 288 from engineer 12 from engineer(7:00-19:00) 95 95%, keeping haul road in wet condition and the wheels of the trucks will be washed before entering the site 6 from engineer 0.5
		Haul Road (g/m/s)	3.15781E-04	TSP emission factor (g/VKT) Particle size multiplier, k (g/VKT) Road silt loading (g/m ² , sL) Average truck weight (tons), W E (g/VKT) No. of truck trips per day no. of operation hour (hr) % of dust suppression Road width (m) Emission height (m)	$E=k \times (sL/2)^{0.65} \times (W/3)^{1.5}$ AP-42, Section 13.2.1, 11/06 ed. 24 AP-42, Section 13.2.1, Table 13.2.1-1, 11/06 ed. 12 AP-42, Section 13.2.1, Table 13.2.1-4, 11/06 ed. 16 The average weight of the empty truck and full load truck 947 calculated 288 from engineer 12 from engineer(7:00-19:00) 95 95%, keeping haul road in wet condition and the wheels of the trucks will be washed before entering the site 6 from engineer 0.5

Appendix 12.1 Calculations of Emission Rates

Location	Source	Emission Factors	Emission Rates	Parameters	Remarks
Nam Cheong Works Area	Cut & Cover Area Stockpile Area Source ID: NC1-NC9	Heavy Construction Area Source (g/m2/s) Wind erosion E (g/m2/s) (For night-time only)	1.55671E-05 8.08600E-07	TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression Emission height (m) TSP emission factor (Mg/hectare/yr) Percentage area actively operating (%) % of dust suppression Emission height (m)	2.69 from AP-42, S13.2.3, 1/95 ed. 30 from engineer 75 for watering four times a day 0 0.85 AP-42, 5th ed., Table 11.9.4 30 from engineer 0 0 E=k x (sL/2) ^{0.65} x (W/3) ^{1.5} AP-42, Section 13.2.1, 11/06 ed. 24 AP-42, Section 13.2.1, Table 13.2.1-1, 11/06 ed. 12 AP-42, Section 13.2.1, Table 13.2.1-4, 11/06 ed. 16 The average weight of the empty truck and full load truck 947 calculated 288 from engineer 12 from engineer(7:00-19:00) 90 90%, keeping haul road in wet condition 6 from engineer 0.5
	Construction Sites	Haul Road (g/m/s) Source ID: HR6A, HR6B	6.31563E-04	TSP emission factor (g/VKT) Particle size multiplier, k (g/VKT) Road silt loading (g/m2), sL Average truck weight (tons), W E (g/VKT) No. of truck trips per day no. of operation hour (hr) % of dust suppression Road width (m) Emission height (m)	
Nam Cheong Barging Points	Two Barging Points for Nam Cheong Works Area	Unloading of spoils to barge (g/s) Source ID: BP1, BP2	1.67442E-02	TSP emission factor (kg/Mg) Particle size multiplier, k Material moisture content, M (%) Average wind speed, U (m/s) E (kg/Mg) Maximum total handling capacity (Mg/day) Maximum handling capacity for each barging point (Mg/day) no. of operation hour (hr) % of dust suppression Emission height (m)	E = k x (0.0016) x [(U/2.2) ^{1.3} / (M/2) ^{1.4}] AP-42, Section 13.2.4, 11/06 ed. 0.74 AP-42, S13.2.4, particle size < 30 um, 1/95 ed. 2 from engineer 2.33 from Hong Kong Observatory, Hong Kong Observatory Station(Yr2007) 1.28E-03 calculated 11340 from engineer, for Nam Cheong Works Area 5670 from engineer, there are two barging points 12 from engineer (operation hours would be from 7:00 to 19:00) 90 installation of flexible curtain and shelter with water spray at discharge point 0.5
	One Barging Point for West Kowloon Terminus Works Area	Unloading of spoils to barge (g/s) Source ID: BP3	4.26664E-03	TSP emission factor (kg/Mg) Particle size multiplier, k Material moisture content, M (%) Average wind speed, U (m/s) E (kg/Mg) Maximum total handling capacity (Mg/day) Maximum handling capacity for each barging point (Mg/day) no. of operation hour (hr) % of dust suppression Emission height (m)	E = k x (0.0016) x [(U/2.2) ^{1.3} / (M/2) ^{1.4}] AP-42, Section 13.2.4, 11/06 ed. 0.74 AP-42, S13.2.4, particle size < 30 um, 1/95 ed. 5 from engineer (Most of the excavated materials at WKT are marine deposit, therefore, higher moisture content is expected) 2.33 from Hong Kong Observatory, Hong Kong Observatory Station(Yr2007) 3.54E-04 calculated 31266 from engineer, for West Kowloon Terminus Works Area 5211 from engineer, there are six barging points (5 at West Kowloon Terminus Works Area; 1 at Nam Cheong Works Area) 12 from engineer (operation hours would be from 7:00 to 19:00) 90 installation of flexible curtain and shelter with water spray at discharge point 0.5
Haul Road at barging facilities	Haul Road to barging points (g/m/s) Source ID: HR13 HR14A, HR14B, HR14C	Haul Road to barging points (g/m/s)	3.94727E-04 1.97363E-04	TSP emission factor (g/VKT) Particle size multiplier, k (g/VKT) Road silt loading (g/m2), sL Average truck weight (tons), W E (g/VKT) No. of truck trips per day No. of truck trips per day no. of operation hour (hr) % of dust suppression Road width (m) Emission height (m)	E=k x (sL/2) ^{0.65} x (W/3) ^{1.5} AP-42, Section 13.2.1, 11/06 ed. 24 AP-42, Section 13.2.1, Table 13.2.1-1, 11/06 ed. 12 AP-42, Section 13.2.1, Table 13.2.1-4, 11/06 ed. 16 The average weight of the empty truck and full load truck 947 calculated 720 from engineer, round-trip included 360 from engineer, round-trip included 12 from engineer(7:00-19:00) 97.5 97.5%, watering haul road once per hour and keeping haul road in wet condition 6 from engineer 0.5
	Temporary Stockpile Area (For Emergency Use) Source ID: NC10	Heavy Construction Area Source (g/m2/s) Wind erosion E (g/m2/s) (For night-time only)	1.55671E-05 8.08600E-07	TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression Emission height (m) TSP emission factor (Mg/hectare/yr) Percentage area actively operating (%) % of dust suppression Emission height (m)	2.69 from AP-42, S13.2.3, 1/95 ed. 30 from engineer 75 for watering four times a day 0 0.85 AP-42, 5th ed., Table 11.9.4 30 from engineer 0 0

Appendix 12.1 Calculations of Emission Rates

Location	Source	Emission Factors	Emission Rates	Parameters	Remarks
West Kowloon Works Area	Cut & Cover Area & Stockpile Area Source ID: WK1-WK23	Heavy Construction Area Source (g/m ² /s)	3.89178E-06	TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) Emission height (m)	2.69 from AP-42, S13.2.3, 1/95 ed. 15 from engineer 87.5 for watering eight times a day 0 0.85 AP-42, 5th ed., Table 11.9.4 15 from engineer 0 0
		Wind erosion (g/m ² /s) (For night-time only)	4.04300E-07	TSP emission factor (Mg/hectare/yr) Percentage area actively operating (%) Emission height (m)	
West Kowloon Barging Point	Construction Sites	Haul Road to barging points (g/m/s)		TSP emission factor (g/VKT) Particle size multiplier, k (g/VKT) Road silt loading (g/m ²), sL Average truck weight (tons), W E (g/VKT) No. of truck trips per day No. of truck trips per day No. of truck trips per day No. of truck trips per day No. of truck trips per day no. of operation hour (hr) % of dust suppression Road width (m) Emission height (m)	$E = k \times (sL/2)^{0.65} \times (W/3)^{1.5}$ AP-42, Section 13.2.1, 11/06 ed. 24 AP-42, Section 13.2.1, Table 13.2.1-1, 11/06 ed. 12 AP-42, Section 13.2.1, Table 13.2.1-4, 11/06 ed. 16 The average weight of the empty truck and full load truck 94.7 calculated 1800 from engineer, round-trip included 1440 from engineer, round-trip included 1080 from engineer, round-trip included 900 from engineer 720 from engineer, round-trip included 360 from engineer, round-trip included 12 from engineer (7:00-19:00) 97.5 97.5%, watering haul road once per hour and keeping haul road in wet condition 6 from engineer 0.5
		Five Barging Points for West Kowloon Works Area	4.26664E-03	TSP emission factor (kg/Mg) Particle size multiplier, k Material moisture content, M (%) Average wind speed, U (m/s) E (kg/Mg) Maximum total handling capacity (Mg/day) Maximum handling capacity for each barging point (Mg/day) no. of operation hour (hr) % of dust suppression Emission height (m)	$E = k \times (0.0016) \times [(U/2)^{1.37} (M/2)^{1.4}]$ AP-42, Section 13.2.4, 11/06 ed. 0.74 AP-42, S13.2.4, particle size < 30 um, 1/95 ed. 5 from engineer (Most of the excavated materials at WKT are marine deposit, therefore, higher moisture content is expected) 2.33 from Hong Kong Observatory, Hong Kong Observatory Station (Y2007) 3.54E-04 calculated 31266 from engineer; for West Kowloon Terminus Works Area 5211 from engineer; there are six barging points (5 at West Kowloon Terminus Works Area; 1 at Nam Cheong Works Area) 12 from engineer (operation hours would be from 7:00 to 19:00) 90 installation of flexible curtain and shelter with water spray at discharge point 0.5
West Kowloon Concrete Batching Plant	Construction Sites	Haul Road within concrete batching plant (g/m/s)	6.92456E-04	TSP emission factor (g/VKT) Particle size multiplier, k (g/VKT) Road silt loading (g/m ²), sL Average truck weight (tons), W E (g/VKT) No. of truck trips per day no. of operation hour (hr) % of dust suppression Road width (m) Emission height (m)	$E = k \times (sL/2)^{0.65} \times (W/3)^{1.5}$ AP-42, Section 13.2.1, 11/06 ed. 24 AP-42, Section 13.2.1, Table 13.2.1-1, 11/06 ed. 12 AP-42, Section 13.2.1, Table 13.2.1-4, 11/06 ed. 21 The average weight of the empty truck and full load truck 1424 calculated 420 from engineer 12 from engineer (7:00-19:00) 95 95%, keeping haul road in wet condition and wheel washing pit installed at the gate of the concrete batching plant. 6 from engineer 0.5
		Unloading of raw materials	2.43056E-02	TSP emission factor (kg/Mg) Maximum loading rate (tonnes/day) no. of operation hour (hr) Loading rate (tonnes/hr) % of dust suppression Emission height (m)	0.0035 AP-42, Section 11.12, Table 11.12-1, 6/06 ed. 6000 from engineer 12 from engineer (7:00-19:00) 500 calculated 95 95%, the receiving hopper should be provided with enclosures on 3 sides with top cover and water spraying system 0.5
Cement/PFA Silos	Small Cement Silos	Unloading Aggregate (g/s) Source ID: CB15	1.48333E-02	Dust extraction flow rate for each mixer (m ³ /hr) no. of operation hour (hr) no. of small cement silos Emission height (m)	30 Adjusted emission factor should be followed for plant operation in future 1780 from engineer 12 from engineer (7:00-19:00) 3 from engineer 35 from engineer
		PFA Silos (g/s) Source ID: CB2, CB3, CB5, CB6, CB8, CB9	1.48333E-02	TSP emission factor (mg/m ³) Dust extraction flow rate for each mixer (m ³ /hr) no. of operation hour (hr) no. of PFA silos Emission height (m)	30 Adjusted emission factor should be followed for plant operation in future 1780 from engineer 12 from engineer (7:00-19:00) 6 from engineer 35 from engineer
Mixing Tower	Large Capacity Cement Silos (g/s) Source ID: CB13, CB14	Mixer (g/s) Source ID: CB10, CB11, CB12	4.90000E-02	TSP emission factor (mg/m ³) Dust extraction flow rate for each mixer (m ³ /hr) no. of operation hour (hr) no. of large cement silos Emission height (m)	50 EPD BPM Standard 3528 from engineer 12 from engineer (7:00-19:00) 2 from engineer 20 from engineer
			1.97778E-02	TSP emission factor (mg/m ³) Dust extraction flow rate for each mixer (m ³ /hr) no. of operation hour (hr) no. of mixers Emission height (m)	40 Adjusted emission factor should be followed for plant operation in future 1780 from engineer 12 from engineer (7:00-19:00) 3 from engineer 17 from engineer

Shek Kong Works Area Dust Emission Sources

Line Sources

Source ID	Day-time Emission Rates (g/m/s)	Night-time Emission Rates (g/m/s)	X co-ordinates (Starting)	Y co-ordinates (Starting)	X co-ordinates (Ending)	Y co-ordinates (Ending)	Emission Height (metres)	Source Width (metres)
HR1A	4.01305E-04	0.00000E+00	826697.5	833504.5	826837.4	833375.3	0.5	6
HR1B	4.01305E-04	0.00000E+00	826837.4	833375.3	827051.4	833061.4	0.5	6
HR1C	4.01305E-04	0.00000E+00	827051.4	833061.4	827175.9	832977.4	0.5	6
HR1D	4.01305E-04	0.00000E+00	827175.9	832977.4	827287.4	832815.3	0.5	6
HR2A	2.30257E-04	0.00000E+00	827287.4	832815.3	827541.2	832446.7	0.5	6
HR2B	2.30257E-04	0.00000E+00	827541.2	832446.7	827543.2	832389.6	0.5	6
HR2C	2.30257E-04	0.00000E+00	827543.2	832389.6	827606.6	832351.4	0.5	6
HR2D	2.30257E-04	0.00000E+00	827606.6	832351.4	827610.9	832319.6	0.5	6
HR4A	1.57891E-04	0.00000E+00	827958.6	832237.3	827923.5	832191.2	0.5	6
HR4B	1.57891E-04	0.00000E+00	827923.5	832191.2	827914.3	832113.9	0.5	6
HR4C	1.57891E-04	0.00000E+00	827914.3	832113.9	827869.6	832079.0	0.5	6
HR5A	3.15781E-04	0.00000E+00	828186.0	832270.7	828238.5	832230.6	0.5	6
HR5B	3.15781E-04	0.00000E+00	828238.5	832230.6	828259.7	832155.8	0.5	6
HR5C	3.15781E-04	0.00000E+00	828259.7	832155.8	828261.3	832062.8	0.5	6

Area Sources

Source ID	Day-time Emission Rates (g/m ² /s)	Night-time Emission Rates (g/m ² /s)	X co-ordinates (At centre)	Y co-ordinates (At centre)	X dimension (metres)	Y dimension (metres)	Emission Height (metres)	Rotation angle(°)
SK1	3.11343E-06	4.04300E-07	826811.7	833591.9	31.7	83.7	0	35.5
SK2	3.11343E-06	4.04300E-07	826787.8	833574.9	26.3	83.1	0	32.12
SK3	3.11343E-06	4.04300E-07	826850.0	833529.4	23.8	61.8	0	34.17
SK4	3.11343E-06	4.04300E-07	826829.4	833515.1	25.8	61.7	0	33.15
SK5	3.11343E-06	4.04300E-07	826886.5	833475.9	24.2	67.2	0	32.72
SK6	3.11343E-06	4.04300E-07	826865.7	833462.2	25.9	67.0	0	34.36
SK7	3.11343E-06	4.04300E-07	826925.8	833419.0	24.1	70.4	0	34.15
SK8	3.11343E-06	4.04300E-07	826905.1	833404.8	24.9	71.2	0	35.3
SK9	3.11343E-06	4.04300E-07	826967.5	833359.1	23.3	74.5	0	34.73
SK10	3.11343E-06	4.04300E-07	826946.0	833344.6	26.3	74.0	0	32.6
SK11	3.11343E-06	4.04300E-07	827009.1	833298.0	23.4	72.5	0	34.02
SK12	3.11343E-06	4.04300E-07	826988.3	833283.7	25.9	73.2	0	33.94
SK13	3.11343E-06	4.04300E-07	827050.4	833237.5	24.3	74.2	0	34.62
SK14	3.11343E-06	4.04300E-07	827029.8	833223.1	26.2	72.6	0	34.88
SK15	3.11343E-06	4.04300E-07	827095.2	833173.0	23.4	81.0	0	34.89
SK16	3.11343E-06	4.04300E-07	827074.2	833158.9	26.1	81.7	0	35.26
SK17	3.11343E-06	4.04300E-07	827143.8	833102.9	23.4	89.1	0	33.35
SK18	3.11343E-06	4.04300E-07	827122.9	833088.2	27.2	88.0	0	34.14
SK19	3.11343E-06	4.04300E-07	827193.9	833029.3	23.4	89.1	0	33.34
SK20	3.11343E-06	4.04300E-07	827173.0	833014.7	27.2	88.0	0	33.97
SK21	3.11343E-06	4.04300E-07	827244.0	832956.6	23.4	89.1	0	33.34
SK22	3.11343E-06	4.04300E-07	827223.1	832941.9	27.2	88.0	0	34.14
SK23	3.11343E-06	4.04300E-07	827293.7	832883.7	23.3	89.0	0	33.48
SK24	3.11343E-06	4.04300E-07	827272.8	832869.0	27.2	88.0	0	34.26
SK25	3.11343E-06	4.04300E-07	827343.3	832810.6	23.4	89.1	0	33.35
SK26	3.11343E-06	4.04300E-07	827322.4	832795.9	27.3	88.0	0	34.14
SK27	3.11343E-06	4.04300E-07	827394.1	832737.5	23.4	89.0	0	33.34
SK28	3.11343E-06	4.04300E-07	827373.2	832722.9	27.2	87.9	0	33.97
SK29	3.11343E-06	4.04300E-07	827444.8	832664.2	23.4	89.1	0	33.35
SK30	3.11343E-06	4.04300E-07	827423.9	832649.6	27.2	87.9	0	33.97
SK31	3.11343E-06	4.04300E-07	827494.6	832591.3	23.4	89.1	0	33.34
SK32	3.11343E-06	4.04300E-07	827473.7	832576.7	27.2	88.0	0	33.97
SK33	3.11343E-06	4.04300E-07	827545.0	832518.0	23.4	89.0	0	33.34
SK34	3.11343E-06	4.04300E-07	827524.1	832503.3	27.3	88.0	0	34.14
SK35	3.11343E-06	4.04300E-07	827598.5	832449.8	32.7	81.8	0	33.78
SK36	3.11343E-06	4.04300E-07	827572.9	832433.0	27.9	82.1	0	33.46
SK37	3.11343E-06	4.04300E-07	827661.6	832427.0	25.9	65.3	0	75.45
SK38	3.11343E-06	4.04300E-07	827705.7	832418.2	30.6	24.9	0	77.59
SK39	3.11343E-06	4.04300E-07	826868.0	833379.8	22.2	22.2	0	34.48
SK40	3.11343E-06	4.04300E-07	827852.8	832089.2	9.2	11.0	0	35.39
SK41	3.11343E-06	4.04300E-07	828262.4	832036.3	21.8	22.0	0	46.14
SK42	3.11343E-06	4.04300E-07	826746.4	833635.4	26.8	62.1	0	37.54
SK43	3.11343E-06	4.04300E-07	826769.8	833652.4	31.1	63.4	0	37.3
SK44	3.11343E-06	4.04300E-07	827838.0	832050.3	27.9	36.3	0	34.82
SK45	3.11343E-06	4.04300E-07	827861.1	832066.3	28.0	36.2	0	34.71

Nam Cheong Works Area Dust Emission Sources

Point Sources

Source ID	Day-time Emission Rates (g/s)	Night-time Emission Rates (g/s)	X co-ordinates (At centre)	Y co-ordinates (At centre)	Emission Height (metres)
BP1	1.67442E-02	0.00000E+00	833151.9	820954.1	0.5
BP2	1.67442E-02	0.00000E+00	833217.1	820913.0	0.5
BP3	4.26664E-03	0.00000E+00	833277.2	820875.2	0.5

Line Sources

Source ID	Day-time Emission Rates (g/m/s)	Night-time Emission Rates (g/m/s)	X co-ordinates (Starting)	Y co-ordinates (Starting)	X co-ordinates (Ending)	Y co-ordinates (Ending)	Emission Height (metres)	Source Width (metres)
HR6A	6.31563E-04	0.00000E+00	833562.9	821132.8	833430.2	821240.4	0.5	6
HR6B	6.31563E-04	0.00000E+00	833430.2	821240.4	833383.7	821249.0	0.5	6
HR13	3.94727E-04	0.00000E+00	833184.3	821073.2	833241.5	821033.1	0.5	6
HR14A	1.97363E-04	0.00000E+00	833241.5	821033.1	833226.2	820927.3	0.5	6
HR14B	1.97363E-04	0.00000E+00	833241.5	821033.1	833302.1	820988.8	0.5	6
HR14C	1.97363E-04	0.00000E+00	833302.1	820988.8	833285.8	820891.6	0.5	6

Area Sources

Source ID	Day-time Emission Rates (g/m ² /s)	Night-time Emission Rates (g/m ² /s)	X co-ordinates (At centre)	Y co-ordinates (At centre)	X dimension (metres)	Y dimension (metres)	Emission Height (metres)	Rotation angle(°)
NC1	1.55671E-05	8.08600E-07	833498.6	821280.0	31.3	46.1	0	49.14
NC2	1.55671E-05	8.08600E-07	833535.1	821251.3	31.3	46.1	0	49
NC3	1.55671E-05	8.08600E-07	833571.9	821222.9	31.3	46.1	0	49.01
NC4	1.55671E-05	8.08600E-07	833615.0	821188.4	30.5	65.4	0	52.72
NC5	1.55671E-05	8.08600E-07	833771.9	821064.4	37.2	49.5	0	50.29
NC6	1.55671E-05	8.08600E-07	833809.3	821034.3	35.9	45.4	0	52.04
NC7	1.55671E-05	8.08600E-07	833843.8	821006.7	36.5	41.6	0	53.25
NC8	1.55671E-05	8.08600E-07	833874.7	820981.6	37.3	39.3	0	49.19
NC9	1.55671E-05	8.08600E-07	833364.9	821249.5	22.0	22.0	0	20.49
NC10	1.55671E-05	8.08600E-07	833174.8	820997.3	22.0	22.0	0	57.61

West Kowloon Works Area Dust Emission Sources

Point Sources

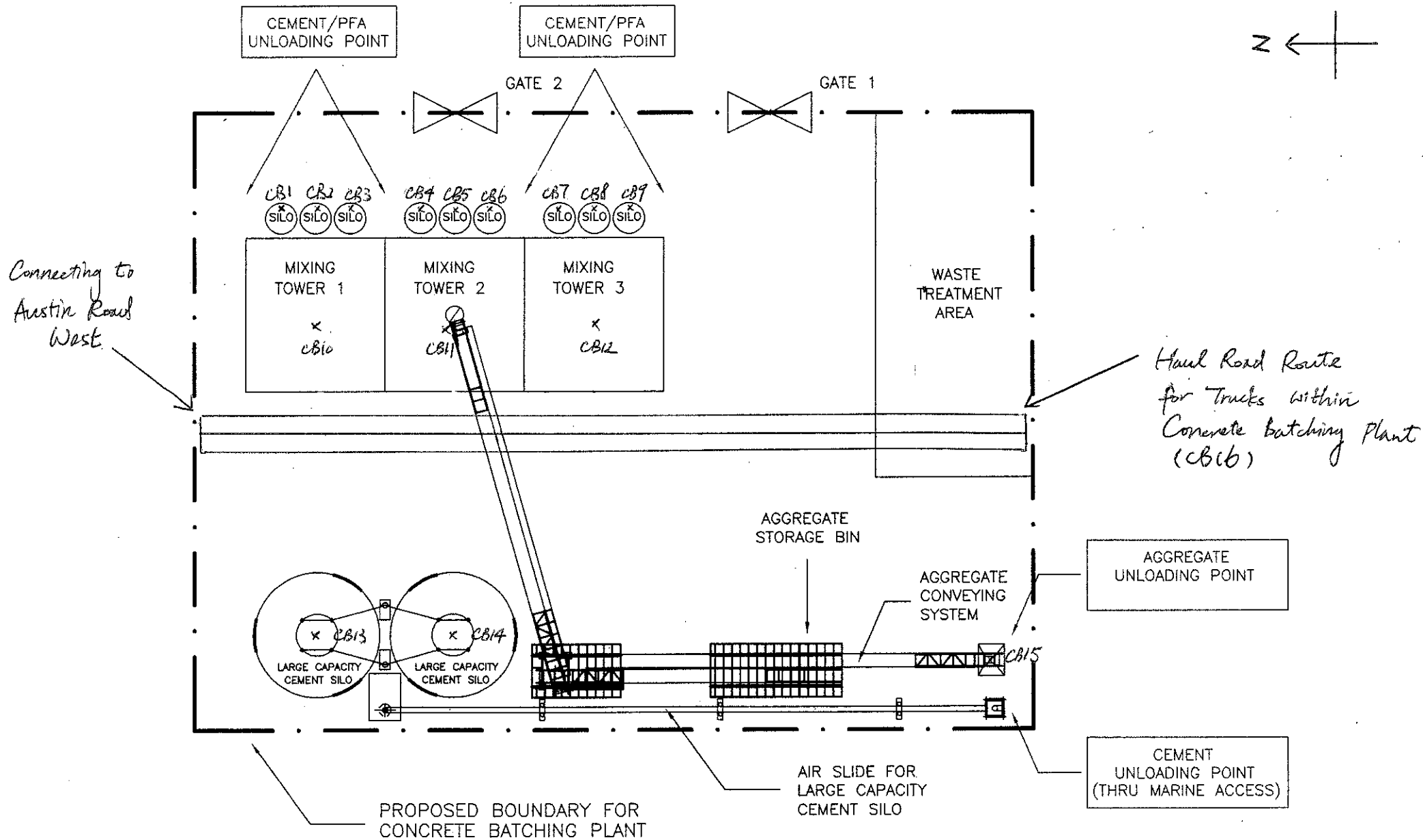
Source ID	Day-time Emission Rates (g/s)	Night-time Emission Rates (g/s)	X co-ordinates (At centre)	Y co-ordinates (At centre)	Emission Height (metres)	Remarks
BP8	4.26664E-03	0.00000E+00	834172.9	817748.2	0.5	-
BP7	4.26664E-03	0.00000E+00	834328.6	817755.8	0.5	-
BP6	4.26664E-03	0.00000E+00	834397.5	817847.6	0.5	-
BP5	4.26664E-03	0.00000E+00	834591.9	817925.1	0.5	-
BP4	4.26664E-03	0.00000E+00	834639.9	817929.6	0.5	-
CB1	1.48333E-02	0.00000E+00	835250.9	818163.9	20	20m is height set in the model run, actual height is 35m.
CB2	1.48333E-02	0.00000E+00	835250.2	818161.4	20	20m is height set in the model run, actual height is 35m.
CB3	1.48333E-02	0.00000E+00	835249.3	818159.0	20	20m is height set in the model run, actual height is 35m.
CB4	1.48333E-02	0.00000E+00	835245.7	818147.8	20	20m is height set in the model run, actual height is 35m.
CB5	1.48333E-02	0.00000E+00	835244.8	818145.4	20	20m is height set in the model run, actual height is 35m.
CB6	1.48333E-02	0.00000E+00	835244.1	818142.8	20	20m is height set in the model run, actual height is 35m.
CB7	1.48333E-02	0.00000E+00	835240.4	818131.8	20	20m is height set in the model run, actual height is 35m.
CB8	1.48333E-02	0.00000E+00	835239.6	818129.2	20	20m is height set in the model run, actual height is 35m.
CB9	1.48333E-02	0.00000E+00	835238.7	818126.7	20	20m is height set in the model run, actual height is 35m.
CB10	1.97778E-02	0.00000E+00	835242.8	818164.0	17	-
CB11	1.97778E-02	0.00000E+00	835237.4	818147.7	17	-
CB12	1.97778E-02	0.00000E+00	835232.5	818131.7	17	-
CB13	4.90000E-02	0.00000E+00	835212.3	818179.3	20	-
CB14	4.90000E-02	0.00000E+00	835209.5	818169.7	20	-
CB15	2.43056E-02	0.00000E+00	835193.0	818117.9	0.5	-

Line Sources

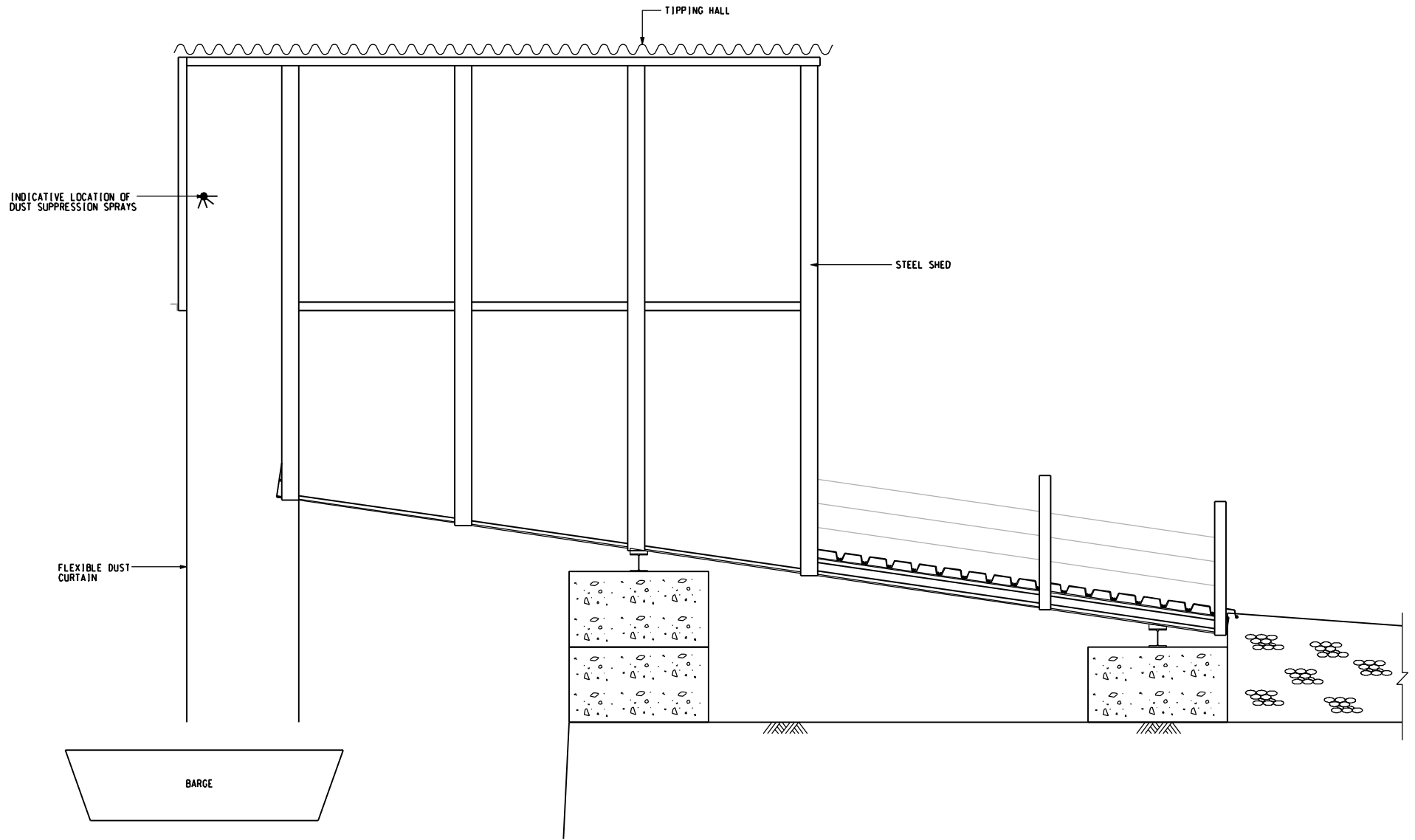
Source ID	Day-time Emission Rates (g/m/s)	Night-time Emission Rates (g/m/s)	X co-ordinates (Starting)	Y co-ordinates (Starting)	X co-ordinates (Ending)	Y co-ordinates (Ending)	Emission Height (metres)	Source Width (metres)
HR7A	4.93408E-04	0.00000E+00	834964.1	818123.2	834964.1	817983.2	0.5	6
HR7B	4.93408E-04	0.00000E+00	834964.1	817983.2	834895.8	817976.0	0.5	6
HR7C	4.93408E-04	0.00000E+00	834898.1	818144.6	834895.8	817976.0	0.5	6
HR8A	9.86817E-04	0.00000E+00	834895.8	817976.0	834764.7	817958.0	0.5	6
HR8B	9.86817E-04	0.00000E+00	834764.7	817958.0	834637.5	817945.4	0.5	6
HR9	7.89453E-04	0.00000E+00	834637.5	817945.4	834588.3	817940.5	0.5	6
HR10A	5.92090E-04	0.00000E+00	834588.3	817940.5	834519.6	817934.4	0.5	6
HR10B	5.92090E-04	0.00000E+00	834519.6	817934.4	834425.8	817897.2	0.5	6
HR10C	5.92090E-04	0.00000E+00	834425.8	817897.2	834389.4	817855.7	0.5	6
HR11	3.94727E-04	0.00000E+00	834389.4	817855.7	834313.9	817770.0	0.5	6
HR12A	1.97363E-04	0.00000E+00	834313.9	817770.0	834289.8	817763.6	0.5	6
HR12B	1.97363E-04	0.00000E+00	834289.8	817763.6	834163.3	817763.4	0.5	6
CB16	6.92456E-04	0.00000E+00	835210.5	818104.3	835245.3	818210.0	0.5	6

Area Sources

Source ID	Day-time Emission Rates (g/m ² /s)	Night-time Emission Rates (g/m ² /s)	X co-ordinates (At centre)	Y co-ordinates (At centre)	X dimension (metres)	Y dimension (metres)	Emission Height (metres)	Rotation angle(°)
WK1	3.89178E-06	4.04300E-07	834946.4	818542.1	48.4	91.8	0	7.48
WK2	3.89178E-06	4.04300E-07	835010.7	818545.0	76.3	78.3	0	9.87
WK3	3.89178E-06	4.04300E-07	835067.7	818551.7	36.8	71.3	0	8.73
WK4	3.89178E-06	4.04300E-07	834948.3	818468.4	68.8	54.1	0	10.22
WK5	3.89178E-06	4.04300E-07	835023.7	818482.4	79.7	49.4	0	9.47
WK6	3.89178E-06	4.04300E-07	835081.4	818495.1	37.3	46.0	0	9.11
WK7	3.89178E-06	4.04300E-07	834949.7	818409.4	86.4	62.4	0	11.21
WK8	3.89178E-06	4.04300E-07	835034.3	818426.6	83.8	62.8	0	10.97
WK9	3.89178E-06	4.04300E-07	835096.6	818440.8	43.0	66.4	0	12.19
WK10	3.89178E-06	4.04300E-07	834964.3	818329.8	95.3	102.2	0	10.96
WK11	3.89178E-06	4.04300E-07	835065.0	818348.8	103.9	102.3	0	11.11
WK12	3.89178E-06	4.04300E-07	835134.3	818360.5	32.8	104.6	0	11.24
WK13	3.89178E-06	4.04300E-07	834986.0	818244.7	99.4	73.0	0	10.3
WK14	3.89178E-06	4.04300E-07	835088.1	818261.7	104.5	77.1	0	8.79
WK15	3.89178E-06	4.04300E-07	835160.1	818272.5	38.2	77.6	0	9.09
WK16	3.89178E-06	4.04300E-07	835003.2	818170.9	98.6	78.3	0	11.21
WK17	3.89178E-06	4.04300E-07	835104.7	818186.9	105.7	74.9	0	10.22
WK18	3.89178E-06	4.04300E-07	835020.7	818093.8	99.3	80.2	0	12.18
WK19	3.89178E-06	4.04300E-07	835123.6	818104.7	108.2	94.2	0	13.26
WK20	3.89178E-06	4.04300E-07	834775.7	818095.9	69.3	82.4	0	5.59
WK21	3.89178E-06	4.04300E-07	834840.1	818101.2	62.1	78.3	0	4.9
WK22	3.89178E-06	4.04300E-07	834781.7	818016.6	65.2	75.8	0	8.38
WK23	3.89178E-06	4.04300E-07	834845.5	818024.3	63.4	74.7	0	7.57



PROPOSED LAYOUT FOR CONCRETE BATCHING PLANT



SCHMATIC DIAGRAM FOR BARGING POINTS

PLOT DATE: 11/11/2011
 PLOT TIME: 11:11:11 AM
 PLOT USER: MURPHY, OTTUMBER, WINDOM'S, J.S. CO. DRAUGHTSMAN
 PROJECT: 116004620 - BARGING POINTS, SECTION SKETCH, E-06P