

Appendix 3-11A

Sensitivity Test on Cumulative Construction Phase TSP, RSP and FSP Levels with the “Yau Mei Site” and “REC Site” Project

Appendix 3-11A Cumulative Impacts Due to Concurrent Construction with Approved “Yau Mei Site” and “REC Site” Project

1 Introduction

Cumulative impact due to potential concurrent works with the approved “Yau Mei Site” project is already presented in **Appendix 3-11**. According to the assessment results, the cumulative dust emissions due to the concurrent works would not adversely impact on ASRs as the contribution due to the “Yau Mei Site” Project is very small and insignificant given to the fact that project is far away from this Project.

On the other hand, the planned “REC Site” project’s EIA report was previously approved. Air quality impact due to site formation works of that project has been assessed in its EIA report. It was concluded in the approved EIA report that the construction works of that project will not have adverse impact upon nearby ASRs.

However, based on the current construction programme of the current EIA Project, the site formation works of the current Project may be potentially overlapped with that of the approved “REC Site” by half month (See Section 2). It is not expected that the concerned concurrent works will result in adverse air quality impact upon the nearby ASRs given such short duration of concurrent works.

Nevertheless, this sensitivity test has been undertaken in order to evaluate potential cumulative impacts due to concurrent construction with both the “Yau Mei Site” project as well as the “REC Site” project. Air quality impact due to construction works of the planned “REC Site” project has been extracted from the approved EIA report of that project. Cumulative air pollutants levels have also been calculated accordingly.

2 Construction Programme and Construction Sequence of Planned “REC Site” Project

Construction programme of the planned “REC Site” project is presented in **Appendix 3-1A** of this EIA report.

Based on the construction programme of the planned “REC Site” project, site formation of the Southern Portion of that project will last for about 7.5 months between November 2017 and first half of June 2018. While the site formation works of the current EIA Project will be undertaken between April 2017 and first half of November 2017. Thus, the site formation works of the current EIA Project has largely avoided concurrent works with the “REC Site” project. Having said that, there is a potential that a portion of the site formation of the current EIA Project may be carried out concurrently with that of the “REC Site” during the first half of November 2017 (i.e. for a duration of about half month).

The potential cumulative impact due to such overlapped construction activities are then assessed.

3 Assessment Methodology

3.1 Emission Sources

Based on information in the approved EIA Report for planned “REC Site” project, the site formation works of that project will be divided into the Southern Portion and Northern Portion, respectively. Only site formation of the Southern Portion is potentially overlapped with the site formation works of this Project.

According to its approved EIA report, within the Southern Portion, works area will be divided into different sub-zones, and there will be only one sub-zone under construction in any one time. Currently, the "REC Site" a green field site, as such, the construction works within the sub-zone will be only emission source as remaining area is covered by grass and will not be affected (i.e. no dust emission for the remaining areas). Once construction for a sub-zone is completed, the works area will be compacted, covered by tarpaulin sheet and hydroseeded before construction of another sub-zone. Watering will also be applied on regular basis. Thus, there will be no cumulative construction impacts.

Information such as emission factors, construction sequence and locations, etc. under its mitigated scenario were directly extracted from the approved EIA report of "REC Site" project which are also attached with this document (Please refer to **Annex 1A** for the extracted information).

3.2 Emission Strength

Emission factors due to construction of the "REC Site" project were directly extracted from its approved EIA report, which is also shown in **Annex 1A**.

3.3 Assessment Approach

In the approved "REC Site" project EIA report, the same set of ASRs that may be affected by both projects, were identified and assessed (the locations of ASRs assessed in the approved "REC Site" project are shown in **Annex 2**). The predicted TSP, RSP and FSP concentrations due to construction of the Southern Portion of the "REC Site" project were extracted from its EIA report, which are also presented in **Annex 2**.

The TSP, RSP and FSP concentrations at the same ASR locations due to this EIA Project was also predicted and presented in **Appendices 3-6** and **3-7** of this EIA report.

Then, cumulative TSP, RSP and FSP concentrations due to the current Project; the "Yau Mei Site" project, and the "REC Site" project are calculated, and the results are presented in **Annex 3**.

4 Assessment Results and Conclusion

According to the sensitivity test results results as shown in the summary table in **Annex 3**, the cumulative dust emissions due to concurrent construction of the said projects would not adversely impact on ASRs as the contribution due to the other two projects is very small and insignificant.

The calculated cumulative dust levels can also comply with the relevant air quality objectives/ criteria. As such, there will be no adverse cumulative impact during construction stage.

Annex 1
(in Appendix 3-11A)

*Information of Construction Sequence and Emission Factors of
Planned “REC Site” project
(Directly Extracted from the Approved “REC Site” EIA Report)*

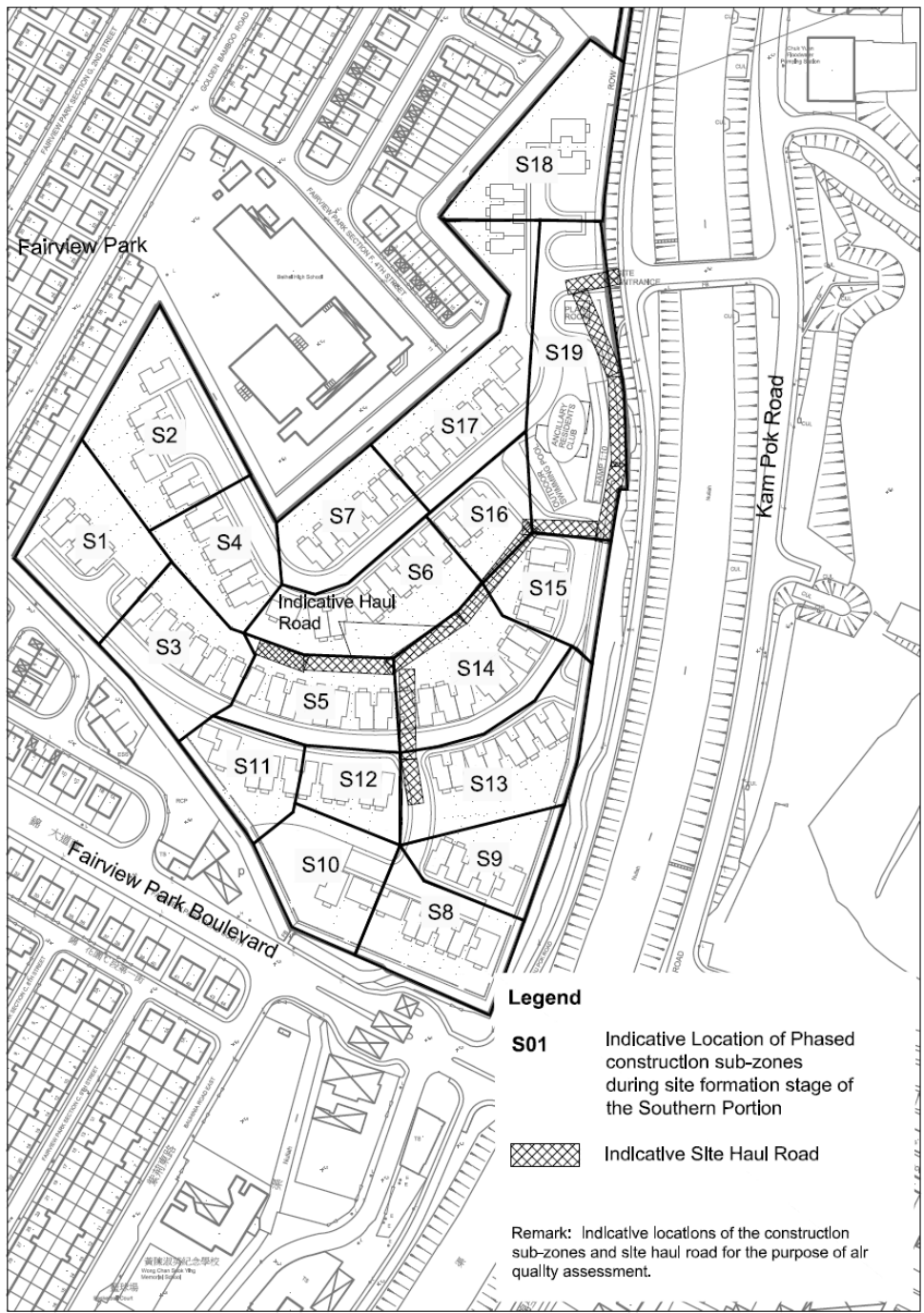
Annex 1 Details of Phasing Construction During Site Formation Stage of the Approved “REC Site” Project

Based on information in the approved EIA Report for planned “REC Site” project, the site formation works of that project will be divided into the Southern Portion and Northern Portion, respectively. Only site formation of the Southern Portion is potentially overlapped with the site formation works of this Project. Its construction programme was also shown in Appendix 3-1A of this report for reference.

According to its approved EIA report, within the Southern Portion, works area will be divided into different sub-zones, and there will be only one sub-zone under construction in any one time. Currently, the “REC Site” a green field site, as such, the construction works within the sub-zone will be only emission source as remaining area is covered by grass and will not be affected (i.e. no dust emission for the remaining areas). Once construction for a sub-zone is completed, the works area will be compacted, covered by tarpaulin sheet and hydroseeded before construction of another sub-zone. Watering will also be applied on regular basis. Thus, there will be no cumulative construction impacts.

Information such as emission factors, construction sequence and locations, etc. under its mitigated scenario were directly extracted from the approved EIA report of “REC Site” project which are also attached with this document.

The predicted TSP, RSP and FSP levels due to its construction works, were also extracted for the purpose of cumulative impact assessment of this EIA Project.



Indicative Phasing Plan During Site Formation Stage of the Southern Portion of "RECSite"

**Directly Extracted from Appendix 3-2 of the Approved EIA Report
of the "REC Site" Project (AEIAR-182/2014)**

Appendix 3-2D Summary Table of Calculated TSP Emissions Modeling Input Data for the Southern Portion (Unmitigated Scenario)

For both the unmitigated scenario and mitigated scenarios, since there will be no construction activities during restricted hours, and on Sundays and general holidays, the calculated emission rates have been applied to day-time hours during general weekdays only (i.e. 0800 to 1800 hours). While from 1800 to 0800 hours during general workdays, and on Sunday and general holidays (whole day) are adopted for impact assessment of wind erosion on the site.

Cut and Cover (day-time only)

Project Site	Ref. ID	X coordinate	Y coordinate	Elevation, m	Release Height, m	Unmitigated *	
						Emission rate, g/m ² /s	Int. Vert. Dim.
Southern Portion	H07	823269.3	837097.9	4	0	1.86E-04	0

Wind Erosion

Project Site	Ref. ID	X coordinate	Y coordinate	Elevation, m	Release Height, m	Unmitigated (night-time only) *		Unmitigated (day-time only) *
						Emission rate, g/m ² /s	Int. Vert. Dim.	Emission rate, g/m ² /s
Southern Portion	WR07	823269.3	837097.9	4	0	2.70E-06	0	2.70E-06

Travelling on Haul Road (unpaved) (day-time only)

Project Site	Road Segment ID	X coordinate	Y coordinate	Ground mPD level, m	X Length, m	Y Length, m	Emission Height, m	Angle, degree	Unmitigated *			Int. Vert. Dim.
									Calculated emission rate, g/m/s	Total emission, g/s	Emission rate, g/m ² /s	
					B	C			A	= (A*B)	= (A*B)/(B*C)	
Southern Portion	HR-RECs1	823300.4	837376.9	4	21	6	0.5	-12	1.68E-03	3.52E-02	2.79E-04	0
Southern Portion	HR-RECs2	823321.1	837347.0	4	35	6	0.5	-113	1.68E-03	5.86E-02	2.79E-04	0
Southern Portion	HR-RECs3	823323.2	837310.0	4	35	6	0.5	-90	1.68E-03	5.86E-02	2.79E-04	0
Southern Portion	HR-RECs4	823316.4	837279.6	4	32	6	0.5	-77	1.68E-03	5.36E-02	2.79E-04	0
Southern Portion	HR-RECs5	823281.5	837283.2	4	30	6	0.5	-4	1.68E-03	5.03E-02	2.79E-04	0
Southern Portion	HR-RECs6	823260.8	837248.3	4	46	6	0.5	-49	1.68E-03	7.71E-02	2.79E-04	0
Southern Portion	HR-RECs7	823231.8	837228.6	4	35	6	0.5	-35	1.68E-03	5.86E-02	2.79E-04	0
Southern Portion	HR-RECs8	823197.0	837230.4	4	35	6	0.5	3	1.68E-03	5.86E-02	2.79E-04	0
Southern Portion	HR-RECs9	823241.0	837195.7	4	35	6	0.5	-91	1.68E-03	5.86E-02	2.79E-04	0
Southern Portion	HR-RECs10	823244.0	837178.6	4	18	6	0.5	-99	1.68E-03	3.02E-02	2.79E-04	0

Remark: * Please refer to Appendix 3-2F for the calculation of emission factors.

**Directly Extracted from Appendix 3-2 of the Approved EIA Report
of the "REC Site" Project (AEIAR-182/2014)**

Appendix 3-2E Summary Table of Calculated TSP Emissions Modeling Input Data for the Southern Portion (Mitigated Scenario)

For both the unmitigated scenario and mitigated scenarios, since there will be no construction activities during restricted hours, and on Sundays and general holidays, the calculated emission rates have been applied to day-time hours during general weekdays only (i.e. 0800 to 1800 hours). While from 1800 to 0800 hours during general workdays, and on Sunday and general holidays (whole day) are adopted for impact assessment of wind erosion on the site.

Cut and Cover (day-time only)

Project Site	Ref. ID	X coordiante	Y coordinate	Elevation,m	Release Height, m	Mitigated *	
						Emission rate, g/m ² /s	Int. Vert. Dim.
Southern Portion	H-RECs1	823084.84	837274.36	4	0	1.86E-05	0
Southern Portion	H-RECs2	823110.84	837320.42	4	0	1.86E-05	0
Southern Portion	H-RECs3	823117.43	837240.41	4	0	1.86E-05	0
Southern Portion	H-RECs4	823137.05	837284.65	4	0	1.86E-05	0
Southern Portion	H-RECs5	823173.92	837244.83	4	0	1.86E-05	0
Southern Portion	H-RECs6	823188.77	837263.77	4	0	1.86E-05	0
Southern Portion	H-RECs7	823188.77	837263.77	4	0	1.86E-05	0
Southern Portion	H-RECs8	823217.48	837119.99	4	0	1.86E-05	0
Southern Portion	H-RECs9	823234.8	837161.99	4	0	1.86E-05	0
Southern Portion	H-RECs10	823177.64	837162.61	4	0	1.86E-05	0
Southern Portion	H-RECs11	823148.43	837202.38	4	0	1.86E-05	0
Southern Portion	H-RECs12	823234.8	837161.99	4	0	1.86E-05	0
Southern Portion	H-RECs13	823234.99	837196.46	4	0	1.86E-05	0
Southern Portion	H-RECs14	823232.2	837235.01	4	0	1.86E-05	0
Southern Portion	H-RECs15	823286.27	837284.1	4	0	1.86E-05	0
Southern Portion	H-RECs16	823244.83	837290.54	4	0	1.86E-05	0
Southern Portion	H-RECs17	823223.34	837318.37	4	0	1.86E-05	0
Southern Portion	H-RECs18	823250.91	837406.24	4	0	1.86E-05	0
Southern Portion	H-RECs19	823284.27	837284.1	4	0	1.86E-05	0

Wind Erosion

Project Site	Ref. ID	X coordiante	Y coordinate	Elevation,m	Release Height, m	Unmitigated (night-time only) *		Int. Vert. Dim.	Mitigated (day-time only) * Emission rate, g/m ² /s
						Emission rate, g/m ² /s	Emission rate, g/m ² /s		
Southern Portion	W-RECs1	823084.84	837274.36	4	0	2.70E-06	0	2.70E-07	
Southern Portion	W-RECs2	823110.84	837320.42	4	0	2.70E-06	0	2.70E-07	
Southern Portion	W-RECs3	823117.43	837240.41	4	0	2.70E-06	0	2.70E-07	
Southern Portion	W-RECs4	823137.05	837284.65	4	0	2.70E-06	0	2.70E-07	
Southern Portion	W-RECs5	823173.92	837244.83	4	0	2.70E-06	0	2.70E-07	
Southern Portion	W-RECs6	823188.77	837263.77	4	0	2.70E-06	0	2.70E-07	
Southern Portion	W-RECs7	823188.77	837263.77	4	0	2.70E-06	0	2.70E-07	
Southern Portion	W-RECs8	823217.48	837119.99	4	0	2.70E-06	0	2.70E-07	
Southern Portion	W-RECs9	823234.8	837161.99	4	0	2.70E-06	0	2.70E-07	
Southern Portion	W-RECs10	823177.64	837162.61	4	0	2.70E-06	0	2.70E-07	
Southern Portion	W-RECs11	823148.43	837202.38	4	0	2.70E-06	0	2.70E-07	
Southern Portion	W-RECs12	823234.8	837161.99	4	0	2.70E-06	0	2.70E-07	
Southern Portion	W-RECs13	823234.99	837196.46	4	0	2.70E-06	0	2.70E-07	
Southern Portion	W-RECs14	823232.2	837235.01	4	0	2.70E-06	0	2.70E-07	
Southern Portion	W-RECs15	823286.27	837284.1	4	0	2.70E-06	0	2.70E-07	
Southern Portion	W-RECs16	823244.83	837290.54	4	0	2.70E-06	0	2.70E-07	
Southern Portion	W-RECs17	823223.34	837318.37	4	0	2.70E-06	0	2.70E-07	
Southern Portion	W-RECs18	823250.91	837406.24	4	0	2.70E-06	0	2.70E-07	
Southern Portion	W-RECs19	823284.27	837284.1	4	0	2.70E-06	0	2.70E-07	

Inputs to the ISCST Model:

Workday	Calculated Emission Rate *		Emission Rate Factor **
	Day-time (A)	Night-time (B)	
	1.86E-05	2.70E-06	0.1452 =B/A
Sundays and Holidays	Day-time (C)	2.70E-07	0.1000 =C/D
	Night-time (D)	2.70E-06	

Remark: * Please refer to Appendices 3-2F for the calculation of emission factors.

** For general workdays, in order to simulate calculated emission rate due to wind erosion during nighttime period, the "Emission Rate Factor" is applied from 1800 to 0800 hours in the ISCST model. Similarly, for Sundays and Holidays, the calculated emission rate due to wind erosion during day-time period is simulated by adopting the "Emission Rate Factor" from 0800 to 1800 hours in the ISCST model.

**Directly Extracted from Appendix 3-2 of the Approved EIA Report
of the "REC Site" Project (AEIAR-182/2014)**

Travelling on Haul Road (paved) (day-time only)

Project Site	Road Segment ID	X coordiante	Y coordinate	Ground mPD level, m	X Length, m	Y Length, m	Emission Height, m	Angle, degree	Mitigated *			Int. Vert. Dim.	
									Calculated emission rate, g/m/s	Total emission, g/s	Emission rate, g/m ³ /s		
					B	C			D	= (D*B)	=(D*B)/(B*C)		
Southern Portion	HR-RECs1	823300.4	837376.9	4	21		6	0.5	-12	1.68E-04	3.52E-03	2.79E-05	0
Southern Portion	HR-RECs2	823321.1	837347.0	4	35		6	0.5	-113	1.68E-04	5.86E-03	2.79E-05	0
Southern Portion	HR-RECs3	823323.2	837310.0	4	35		6	0.5	-90	1.68E-04	5.86E-03	2.79E-05	0
Southern Portion	HR-RECs4	823316.4	837279.6	4	32		6	0.5	-77	1.68E-04	5.36E-03	2.79E-05	0
Southern Portion	HR-RECs5	823281.5	837283.2	4	30		6	0.5	-4	1.68E-04	5.03E-03	2.79E-05	0
Southern Portion	HR-RECs6	823260.8	837248.3	4	46		6	0.5	-49	1.68E-04	7.71E-03	2.79E-05	0
Southern Portion	HR-RECs7	823231.8	837228.6	4	35		6	0.5	-35	1.68E-04	5.86E-03	2.79E-05	0
Southern Portion	HR-RECs8	823197.0	837230.4	4	35		6	0.5	3	1.68E-04	5.86E-03	2.79E-05	0
Southern Portion	HR-RECs9	823241.0	837195.7	4	35		6	0.5	-91	1.68E-04	5.86E-03	2.79E-05	0
Southern Portion	HR-RECs10	823244.0	837178.6	4	18		6	0.5	-99	1.68E-04	3.02E-03	2.79E-05	0

Remark: * Please refer to Appendices 3-2F for the calculation of emission factors.

**Directly Extracted from Appendix 3-2 of the Approved EIA Report
of the "REC Site" Project (AEIAR-182/2014)**

Appendix 3-2F Calculation of TSP Emission Rates of the Project Site for the Southern Portion (Both Unmitigated and Mitigated Scenarios)

Type of Work	Type of Emission Source	Parameter	Value	Remark
Wind Erosion on Exposed Ground	(1) Wind Erosion (day-time)	TSP emission factor (Mg/hectare/year)	0.85	USEPA AP-42, S11.9, Table 11.9-4, 7/98 ed.
		Emission rate, g/m ² /s (unmitigated)	2.70E-06	=((0.85*1000000)/10000m ² /(365*24*60*60))
		% of dust suppression [#]	90.0%	for watering eight times per day [#]
		Emission rate, g/m ² /s (mitigated)	2.70E-07	
	(1) Wind Erosion (night-time)	TSP emission factor (Mg/hectare/year)	0.85	USEPA AP-42, S11.9, Table 11.9-4, 7/98 ed.
		Emission rate, g/m ² /s (unmitigated)	2.70E-06	=((0.85*1000000)/10000m ² /(365*24*60*60))
Cut and Cover Activities	(2) Bulldozing & Surface Compacting (day-time only)	Eqn.: $E = 2.6 (s)^{1.2} (M)^{1.3}$		USEPA AP-42, S11.9, Table 11.9-2, 7/98 ed. *
		Material moisture content (%), M	2.2	To represent the worst case scenario, the lowest moisture content within the range specified for overburden in the USEPA AP-42, S11.9, Table 11.9-3, 7/98 ed., is adopted
		Material silt content (%), s	15.1	To represent the worst case scenario, the highest silt content within the range specified for overburden in the USEPA AP-42, S11.9, Table 11.9-3, 7/98 ed., is adopted
		Calculated Emission Factor (kg/hr), E	2.42E+01	
		Site Area (m ²), A	43000	Site area for the southern portion of Project Site
		Calculated emission rate (unmitigated) (g/m ² /s)	1.57E-04	= (E*1000)/A/(60*60)
		% of dust suppression [#]	90.0%	for watering eight times per day [#]
		Calculated emission rate, g/m ² /s (mitigated)	1.57E-05	
	(3) Removal/ unloading soil materials by excavators (day-time only)	Emission Factor of excavator unloading topsoil (kg/Mg), E1	0.02	USEPA AP-42, S11.9, Table 11.9-4, 7/98 ed. (scraper unloading topsoil is adopted). *
		Emission Factor of Topsoil removal by excavator (kg/Mg), E2	0.029	USEPA AP-42, S11.9, Table 11.9-4, 7/98 ed. (Topsoil removal by scraper is adopted). *
		Total Emission by excavator (kg/Mg), E= E1+E2	4.90E-02	
		Total quantity of materials involved (m ³), Q	67460	The total amount of excavated materials and imported fill materials for the Southern Portion from the Engineer
		No. of months for site formation (Phase B to D), m	7.5	Duration of site formation works for the Project Site
		No. of working days per month, d	25	From Project Engineer
		No. of working hours per day, h	10	From Project Engineer (working hours = 0800 hr to 1800 hr)
Average hourly output (m ³ /hr), O1		35.98	= Q/(m*d*h)	
Average hourly output (Mg/hr), O2		89.95	= O1 x 2.5Mg/m ³ . Assuming the truck capacity of 6m ³ and 15 tons (i.e. soil density of 2.5 Mg/m ³).	
Site Area (m ²), A		43000	Site area for the southern portion of Project Site	
Calculated emission rate (unmitigated) (g/m ² /s)		2.85E-05	= (O2 x (E x 1000) / A) / (60*60)	
% of dust suppression [#]		90.0%	for watering eight times per day [#]	
Calculated emission rate (mitigated) (g/m ² /s)	2.85E-06			

**Directly Extracted from Appendix 3-2 of the Approved EIA Report
of the "REC Site" Project (AEIAR-182/2014)**

Type of Work	Type of Emission Source	Parameter		Remark	
	(4) Earth Handling/ Loading, Unloading, and stockpiling (day-time only)	Eqn.: $E = k \times (0.0016) \times ((U/2.2)^{1.3} / (M/2)^{1.4})$		USEPA AP-42, S13.2.4, 11/06 ed. *	
		Particle size multiplier, k	0.74	USEPA AP-42, S13.2.4, 11/06 ed.	
		Mean wind speed (m/s), U	1.85	Based on average wind speed recorded in year 2010 at Wetland Park Station of Hong Kong Observatory.	
		Material moisture content (%), M	2.2	Pls. refer to Emission Source no. (2) above	
		Calculated Emission Factor (kg/Mg), E	0.00083	$E = k \times (0.0016) \times ((U/2.2)^{1.3} / (M/2)^{1.4})$	
		Total quantity of materials involved (m ³), Q	67460	The total amount of excavated materials and imported fill materials for the Southern Portion from the Engineer	
		No. of months for site formation, m	7.5	Duration of site formation works for the Project Site	
		No. of working days per month, d	25	From Project Engineer	
		No. of working hours per day, h	10	From Project Engineer (working hours = 0800 hr to 1800 hr)	
		Average hourly output (m ³ /hr), O1	35.98	= Q/(m*d*h)	
		Average hourly output (Mg/hr), O2	89.95	= O1 x 2.5Mg/m ³ . Assuming the truck capacity of 6m ³ and 15 tons (i.e. soil density of 2.5 Mg/m ³).	
		Site Area (m ²), A	43000	Site area for the southern portion of Project Site	
		Calculated emission rate (unmitigated) (g/m ² /s)	4.81E-07	= (O2 x (E x 1000)/ A)/(60*60)	
		% of dust suppression [#]	90.0%	for watering eight times per day [#]	
		Calculated emission rate (mitigated) (g/m ² /s)	4.81E-08		
	Total Emission for "Cut and Cover" (= (2) + (3) + (4))	Unmitigated Total Emission rate, g/m ² /s, (day-time only)	1.86E-04	Calculated total unmitigated emission factor for "Cut and Cover".	
		Mitigated Total Emission rate, g/m ² /s (day-time only)	1.86E-05	Calculated total mitigated emission factor for "Cut and Cover" ^{##} .	
	Vehicle movement on Haul Road	(5) Paved Haul Road (day-time only)	Eqn.: $E = k \times (sL)^{0.91} \times (W)^{1.02}$		USEPA AP-42, S13.2.1, 11/06 ed.
			Particle size multiplier (g/VKT), k	3.23	USEPA AP-42, S13.2.1, 11/06 ed., Table 13.2.1-1 for PM-30.
			Road surface silt loading (g/m ²), sL	14	To represent the worst case scenario, the highest silt loading within the range of typical values specified for quarry operation in the USEPA AP-42, S13.2.1, 1/11 ed., Table 13.2.1-3, is adopted. ^{**}
Mean vehicle weight (tons), W			16	The average weight of the empty truck and full load truck.	
Calculated Emission Factor (g/VKT), E1			603.09	$E = k \times (sL)^{0.91} \times (W)^{1.02}$	
Calculated emission factor (g/v-m), E2			0.603	= E1/1000	
Average no. of trucks (veh./hr), T			10	Estimated maximum no. of trucks per hour from Engineer	
Calculated emission rate (unmitigated), g/m/s			1.68E-03	= E2*(T/60*60)	
% of dust suppression [#]			90.0%	for watering eight times per day [#]	
Calculated emission rate (mitigated), g/m/s			1.68E-04		

Remark:

Please refer to Appendix 3-9 for calculation of dust suppression efficiency. 90% dust suppression efficiency is adopted.

Due to the phased construction area, only limited space and construction plants will be available for construction in any one time. Thus, the construction activities under the "Cut and Cover" category that would contribute to dust emissions will unlikely to operate at the same time. In fact, only one of the above activities will operate in any one time. However, to be conservative, air quality impacts due to simultaneous construction of these activities has been taken into account in the assessment.

* The equation recommended for concerned particular construction activity as per Section 13.2.3 of USEPA AP-42 regarding heavy construction operation.

** The concerned construction activity of this Project during site formation stage will involve earth movement activities and transportation of excavated/ fill materials, etc. The nature of these activities is similar to that of quarry operation. Thus, the typical silt loading within the range of typical values from quarry site, as stipulated in USEPA AP-42, Table 13.2.1-3, S13.2.1, 11/06 ed., is adopted in the above equation. The reported highest silt loading value has been used in this exercise for worst case scenario. It is noted that similar assumption has also been adopted for paved construction haul road in the approved EIA report, Appendix F of the "EIA-032/1999 - East Rail Extension Hung Hom to Tsim Sha Tsui - Environmental Impact Assessment".

**Directly Extracted from Appendix 3-3 of the Approved EIA Report
of the "REC Site" Project (AEIAR-182/2014)**

Appendix 3-3D Summary Table of Calculated RSP Emissions Modeling Input Data of the Southern Portion of Project Site (Unmitigated Scenario)

For both the unmitigated scenario and mitigated scenarios, since there will be no construction activities during restricted hours, and on Sundays and general holidays, the calculated emission rates have been applied to day-time hours during general weekdays only (i.e. 0800 to 1800 hours). While from 1800 to 0800 hours during general workdays, and on Sunday and general holidays (whole day) are adopted for impact assessment of wind erosion on the site.

Cut and Cover (day-time only)

Project Site	Ref. ID	X coordiante	Y coordinate	Elevation, m	Release Height, m	Unmitigated *	
						Emission rate, g/m ² /s	Int. Vert. Dim.
Southern Portion	H07	823269.3	837097.9	4	0	5.72E-05	0

Wind Erosion

Project Site	Ref. ID	X coordiante	Y coordinate	Elevation, m	Release Height, m	Unmitigated (night-time only) *		Unmitigated (day-time only) *	
						Emission rate, g/m ² /s	Int. Vert. Dim.	Emission rate, g/m ² /s	
Southern Portion	WR07	823269.3	837097.9	4	0	1.37E-06	0	1.37E-06	

Travelling on Haul Road (unpaved) (day-time only)

Project Site	Road Segment ID	X coordiante	Y coordinate	Ground mPD level, m	X Length, m	Y Length, m	Emission Height, m	Angle, degree	Unmitigated *			Int. Vert. Dim.
									Calculated emission rate, g/m/s	Total emission, g/s	Emission rate, g/m ² /s	
					B	C						
							A	= (A*B)	= (A*B)/(B*C)			
Southern Portion	HR-RECs1	823300.4	837376.9	4	21	6	0.5	-12	3.22E-04	6.75E-03	5.36E-05	0
Southern Portion	HR-RECs2	823321.1	837347.0	4	35	6	0.5	-113	3.22E-04	1.13E-02	5.36E-05	0
Southern Portion	HR-RECs3	823323.2	837310.0	4	35	6	0.5	-90	3.22E-04	1.13E-02	5.36E-05	0
Southern Portion	HR-RECs4	823316.4	837279.6	4	32	6	0.5	-77	3.22E-04	1.03E-02	5.36E-05	0
Southern Portion	HR-RECs5	823281.5	837283.2	4	30	6	0.5	-4	3.22E-04	9.65E-03	5.36E-05	0
Southern Portion	HR-RECs6	823260.8	837248.3	4	46	6	0.5	-49	3.22E-04	1.48E-02	5.36E-05	0
Southern Portion	HR-RECs7	823231.8	837228.6	4	35	6	0.5	-35	3.22E-04	1.13E-02	5.36E-05	0
Southern Portion	HR-RECs8	823197.0	837230.4	4	35	6	0.5	3	3.22E-04	1.13E-02	5.36E-05	0
Southern Portion	HR-RECs9	823241.0	837195.7	4	35	6	0.5	-91	3.22E-04	1.13E-02	5.36E-05	0
Southern Portion	HR-RECs10	823244.0	837178.6	4	18	6	0.5	-99	3.22E-04	5.79E-03	5.36E-05	0

Remark: * Please refer to Appendix 3-F for the calculation of emission factors.

**Directly Extracted from Appendix 3-3 of the Approved EIA Report
of the "REC Site" Project (AEIAR-182/2014)**

Appendix 3-3E Summary Table of Calculated RSP Emissions Modeling Input Data of the Southern Portion of Project Site (Mitigated Scenario)

For both the unmitigated scenario and mitigated scenarios, since there will be no construction activities during restricted hours, and on Sundays and general holidays, the calculated emission rates have been applied to day-time hours during general weekdays only (i.e. 0800 to 1800 hours). While from 1800 to 0800 hours during general workdays, and on Sunday and general holidays (whole day) are adopted for impact assessment of wind erosion on the site.

Cut and Cover (day-time only)

Project Site	Ref. ID	X coordiante	Y coordinate	Elevation,m	Release Height, m	Mitigated *	
						Emission rate, g/m ² /s	Int. Vert. Dim.
Southern Portion	H-RECs1	823084.84	837274.36	4	0	5.72E-06	0
Southern Portion	H-RECs2	823110.84	837320.42	4	0	5.72E-06	0
Southern Portion	H-RECs3	823117.43	837240.41	4	0	5.72E-06	0
Southern Portion	H-RECs4	823137.05	837284.65	4	0	5.72E-06	0
Southern Portion	H-RECs5	823173.92	837244.83	4	0	5.72E-06	0
Southern Portion	H-RECs6	823188.77	837263.77	4	0	5.72E-06	0
Southern Portion	H-RECs7	823188.77	837263.77	4	0	5.72E-06	0
Southern Portion	H-RECs8	823217.48	837119.99	4	0	5.72E-06	0
Southern Portion	H-RECs9	823234.8	837161.99	4	0	5.72E-06	0
Southern Portion	H-RECs10	823177.64	837162.61	4	0	5.72E-06	0
Southern Portion	H-RECs11	823148.43	837202.38	4	0	5.72E-06	0
Southern Portion	H-RECs12	823234.8	837161.99	4	0	5.72E-06	0
Southern Portion	H-RECs13	823234.99	837196.46	4	0	5.72E-06	0
Southern Portion	H-RECs14	823232.2	837235.01	4	0	5.72E-06	0
Southern Portion	H-RECs15	823286.27	837284.1	4	0	5.72E-06	0
Southern Portion	H-RECs16	823244.83	837290.54	4	0	5.72E-06	0
Southern Portion	H-RECs17	823223.34	837318.37	4	0	5.72E-06	0
Southern Portion	H-RECs18	823250.91	837406.24	4	0	5.72E-06	0
Southern Portion	H-RECs19	823284.27	837284.1	4	0	5.72E-06	0

Wind Erosion

Project Site	Ref. ID	X coordiante	Y coordinate	Elevation,m	Release Height, m	Unmitigated (night-time only) *		Mitigated (day-time only) *
						Emission rate, g/m ² /s	Int. Vert. Dim.	
Southern Portion	W-RECs1	823084.84	837274.36	4	0	1.37E-06	0	1.37E-07
Southern Portion	W-RECs2	823110.84	837320.42	4	0	1.37E-06	0	1.37E-07
Southern Portion	W-RECs3	823117.43	837240.41	4	0	1.37E-06	0	1.37E-07
Southern Portion	W-RECs4	823137.05	837284.65	4	0	1.37E-06	0	1.37E-07
Southern Portion	W-RECs5	823173.92	837244.83	4	0	1.37E-06	0	1.37E-07
Southern Portion	W-RECs6	823188.77	837263.77	4	0	1.37E-06	0	1.37E-07
Southern Portion	W-RECs7	823188.77	837263.77	4	0	1.37E-06	0	1.37E-07
Southern Portion	W-RECs8	823217.48	837119.99	4	0	1.37E-06	0	1.37E-07
Southern Portion	W-RECs9	823234.8	837161.99	4	0	1.37E-06	0	1.37E-07
Southern Portion	W-RECs10	823177.64	837162.61	4	0	1.37E-06	0	1.37E-07
Southern Portion	W-RECs11	823148.43	837202.38	4	0	1.37E-06	0	1.37E-07
Southern Portion	W-RECs12	823234.8	837161.99	4	0	1.37E-06	0	1.37E-07
Southern Portion	W-RECs13	823234.99	837196.46	4	0	1.37E-06	0	1.37E-07
Southern Portion	W-RECs14	823232.2	837235.01	4	0	1.37E-06	0	1.37E-07
Southern Portion	W-RECs15	823286.27	837284.1	4	0	1.37E-06	0	1.37E-07
Southern Portion	W-RECs16	823244.83	837290.54	4	0	1.37E-06	0	1.37E-07
Southern Portion	W-RECs17	823223.34	837318.37	4	0	1.37E-06	0	1.37E-07
Southern Portion	W-RECs18	823250.91	837406.24	4	0	1.37E-06	0	1.37E-07
Southern Portion	W-RECs19	823284.27	837284.1	4	0	1.37E-06	0	1.37E-07

Inputs to the ISCST Model:

	Calculated Emission Rate *		Emission Rate Factor **
	Day-time (A)	Night-time (B)	
Workday	5.72E-06	1.37E-06	=A/B
Sundays and Holidays	1.37E-07	1.37E-06	

Remark: * Please refer to Appendix 3-F for the calculation of emission factors.

** For general workdays, in order to simulate calculated emission rate due to wind erosion during nighttime period, the "Emission Rate Factor" is applied from 1800 to 0800 hours in the ISCST model. Similarly, for Sundays and Holidays, the calculated emission rate due to wind erosion during day-time period is simulated by adopting the "Emission Rate Factor" from 0800 to 1800 hours in the ISCST model.

**Directly Extracted from Appendix 3-3 of the Approved EIA Report
of the "REC Site" Project (AEIAR-182/2014)**

Travelling on Haul Road (paved) (day-time only)

Project Site	Road Segment ID	X coordiante	Y coordinate	Ground mPD level, m	X Length, m	Y Length, m	Emission Height, m	Angle, degree	Mitigated *			Int. Vert. Dim.
									Calculated emission rate, g/m/s	Total emission, g/s	Emission rate, g/m ² /s	
					B	C			D	= (D*B)	=(D*B)/ (B*C)	
Southern Portion	HR-RECs1	823300.4	837376.9	4	21	6	0.5	-12	3.22E-05	6.75E-04	5.36E-06	0
Southern Portion	HR-RECs2	823321.1	837347.0	4	35	6	0.5	-113	3.22E-05	1.13E-03	5.36E-06	0
Southern Portion	HR-RECs3	823323.2	837310.0	4	35	6	0.5	-90	3.22E-05	1.13E-03	5.36E-06	0
Southern Portion	HR-RECs4	823316.4	837279.6	4	32	6	0.5	-77	3.22E-05	1.03E-03	5.36E-06	0
Southern Portion	HR-RECs5	823281.5	837283.2	4	30	6	0.5	-4	3.22E-05	9.65E-04	5.36E-06	0
Southern Portion	HR-RECs6	823260.8	837248.3	4	46	6	0.5	-49	3.22E-05	1.48E-03	5.36E-06	0
Southern Portion	HR-RECs7	823231.8	837228.6	4	35	6	0.5	-35	3.22E-05	1.13E-03	5.36E-06	0
Southern Portion	HR-RECs8	823197.0	837230.4	4	35	6	0.5	3	3.22E-05	1.13E-03	5.36E-06	0
Southern Portion	HR-RECs9	823241.0	837195.7	4	35	6	0.5	-91	3.22E-05	1.13E-03	5.36E-06	0
Southern Portion	HR-RECs10	823244.0	837178.6	4	18	6	0.5	-99	3.22E-05	5.79E-04	5.36E-06	0

Remark: * Please refer to Appendix 3-F for the calculation of emission factors.

**Directly Extracted from Appendix 3-3 of the Approved EIA Report
of the "REC Site" Project (AEIAR-182/2014)**

Appendix 3-3F Calculation of RSP Emission Rates of the Southern Portion of Project Site (Both Unmitigated and Mitigated Scenarios)

Type of Work	Type of Emission Source	Parameter	Value	Remark	
Wind Erosion on Exposed Ground	(1) Wind Erosion (day-time)	TSP emission factor (Mg/hectare/year)	0.85	USEPA AP-42, S11.9, Table 11.9-4, 7/98 ed.	
		Calculated RSP emission factor (Mg/hectare/year)	0.43	Converted from the above TSP emission factor based on a ratio of 0.51 for RSP/TSP. ®	
		RSP Emission rate, g/m²/s (unmitigated)	1.37E-06	=((0.43*1000000)/10000m ² /(365*24*60*60))	
		% of dust suppression [#]	90.0%	for watering 8 times per day [#]	
		RSP Emission rate, g/m²/s (mitigated)	1.37E-07		
	(1) Wind Erosion (night-time)	TSP emission factor (Mg/hectare/year)	0.85	USEPA AP-42, S11.9, Table 11.9-4, 7/98 ed.	
		Calculated RSP emission factor (Mg/hectare/year)	0.43	Converted from the above TSP emission factor based on a ratio of 0.51 for RSP/TSP. ®	
		RSP Emission rate, g/m²/s (unmitigated)	1.37E-06	=((0.43*1000000)/10000m ² /(365*24*60*60))	
Cut and Cover Activities	(2) Bulldozing & Surface Compacting (day-time only)	Eqn.: $E = (0.45 (s)^{1.5} / (M)^{1.4}) \times 0.75$		USEPA AP-42, S11.9, Table 11.9-2, 7/98 ed. (Based on the eqn. of particle size <= 15 µm. According to Table 11.9-2, a scaling factor of 0.75 has been applied to the above eqn. in order to represent RSP emission factor) *	
		Material moisture content (%), M	2.2	To represent the worst case scenario, the lowest moisture content within the range specified for overburden in the USEPA AP-42, S11.9, Table 11.9-3, 7/98 ed., is adopted	
		Material silt content (%), s	15.1	To represent the worst case scenario, the highest silt content within the range specified for overburden in the USEPA AP-42, S11.9, Table 11.9-3, 7/98 ed., is adopted	
		Calculated RSP Emission Factor (kg/hr), E	6.57E+00		
		Site Area (m ²), A	43000	Site area for the southern portion of Project Site	
		Calculated RSP emission rate (unmitigated) (g/m²/s)	4.24E-05	= (E*1000)/A/(60*60)	
		% of dust suppression [#]	90.0%	for watering 8 times per day [#]	
		Calculated RSP emission rate, g/m²/s (mitigated)	4.24E-06		
		(3) Removal/ unloading soil materials by excavators (day-time only)	TSP Emission Factor of excavator unloading topsoil (kg/Mg), E1	0.02	USEPA AP-42, S11.9, Table 11.9-4, 7/98 ed. (scraper unloading topsoil is adopted). *
			TSP Emission Factor of Topsoil removal by excavator (kg/Mg), E2	0.029	USEPA AP-42, S11.9, Table 11.9-4, 7/98 ed. (Topsoil removal by scraper is adopted). *
	Total TSP Emission by excavator (kg/Mg), E1+E2		4.90E-02		
	Calculated RSP Emission by excavator (kg/Mg), E = (E1+E2) x0.51		2.50E-02	Converted from the above TSP emission factor based on a ratio of 0.51 for RSP/TSP. ®	
	Total quantity of materials involved (m ³), Q		67460	The total amount of excavated materials and imported fill materials for the Southern Portion from the Engineer	
	No. of months for site formation (Phase B to D), m		7.5	Duration of site formation works for the Project Site	
	No. of working days per month, d		25	From Project Engineer	
	No. of working hours per day, h		10	From Project Engineer (working hours = 0800 hr to 1800 hr)	
	Average hourly output (m ³ /hr), O1		35.98	= Q/(m*d*h)	
	Average hourly output (Mg/hr), O2		89.95	= O1 x 2.5Mg/m ³ . Assuming the truck capacity of 6m3 and 15 tons (i.e. soil density of 2.5 Mg/m3).	
	Site Area (m ²), A		43000	Site area for the southern portion of Project Site	
	Calculated emission rate (unmitigated) (g/m²/s)		1.45E-05	= (O2 x (E x 1000) / A)/(60*60)	
	% of dust suppression [#]		90.0%	for watering 8 times per day [#]	
	Calculated emission rate (mitigated) (g/m²/s)		1.45E-06		

Directly Extracted from Appendix 3-3 of the Approved EIA Report of the "REC Site" Project (AEIAR-182/2014)

Type of Work	Type of Emission Source	Parameter		Remark	
	(4) Earth Handling/ Loading, Unloading, and stockpiling (day-time only)	Eqn.: $E = k \times (0.0016) \times ((U/2.2)^{1.3} / (M/2)^{1.4})$		USEPA AP-42, S13.2.4, 11/06 ed. *	
		Particle size multiplier, k	0.35	particle size multiplier for particle size of 10 µm	
		Mean wind speed (m/s), U	1.85	Based on year 2010 average wind speed recorded at Wetland Park Station of Hong Kong Observatory.	
		Material moisture content (%), M	2.2	Pls. refer to Emission Source no. (2) above	
		Calculated Emission Factor (kg/Mg), E	0.00039	$E = k \times (0.0016) \times ((U/2.2)^{1.3} / (M/2)^{1.4})$	
		Total quantity of materials involved (m ³), Q	67460	The total amount of excavated materials and imported fill materials for the Southern Portion from the Engineer	
		No. of months for site formation, m	7.5	Duration of site formation works for the Project Site	
		No. of working days per month, d	25	From Project Engineer	
		No. of working hours per day, h	10	From Project Engineer (working hours = 0800 hr to 1800 hr)	
		Average hourly output (m ³ /hr), O1	35.98	= Q/(m*d*h)	
		Average hourly output (Mg/hr), O2	89.95	= O1 x 2.5Mg/m ³ . Assuming the truck capacity of 6m ³ and 15 tons (i.e. soil density of 2.5 Mg/m ³).	
		Site Area (m ²), A	43000	Site area for the southern portion of Project Site	
		Calculated emission rate (unmitigated) (g/m ² /s)	2.27E-07	= (O2 x (E x 1000) / A) / (60*60)	
		% of dust suppression [#]	90.0%	for watering 8 times per day [#]	
	Calculated emission rate (mitigated) (g/m ² /s)	2.27E-08			
	Total Emission for "Cut and Cover" (= (2) + (3) + (4))	Unmitigated Total Emission rate, g/m ² /s, (day-time only)	5.72E-05	Calculated total unmitigated emission factor for "Cut and Cover".	
		Mitigated Total Emission rate, g/m ² /s (day-time only)	5.72E-06	Calculated total mitigated emission factor for "Cut and Cover" ^{##} .	
	Vehicle movement on Haul Road	(5) Paved Haul Road (day-time only)	Eqn.: $E = k \times (sL)^{0.91} \times (W)^{1.02}$		USEPA AP-42, S13.2.1, 11/06 ed.
			Particle size multiplier (g/VKT), k	0.62	USEPA AP-42, S13.2.1, 11/06 ed., Table 13.2.1-1 for PM-10.
			Road surface silt loading (g/m ²), sL	14	To represent the worst case scenario, the highest silt loading within the range of typical values specified for quarry operation in the USEPA AP-42, S13.2.1, 1/11 ed., Table 13.2.1-3, is adopted. **
Mean vehicle weight (tons), W			16	The average weight of the empty truck and full load truck.	
Calculated Emission Factor (g/VKT), E1			115.76	$E = k \times (sL)^{0.91} \times (W)^{1.02}$	
Calculated emission factor (g/v-m), E2			0.116	= E1/1000	
Average no. of trucks (veh./hr), T			10	Estimated maximum no. of trucks per hour from Engineer	
Calculated emission rate (unmitigated), g/m/s			3.22E-04	= E2*(T/60*60)	
% of dust suppression [#]			90.0%	for watering 8 times per day [#]	
Calculated emission rate (mitigated), g/m/s			3.22E-05		

Remark:

Please refer to Appendix 3-9 for calculation of dust suppression efficiency. 90% dust suppression efficiency is adopted.

Due to the phased construction area, only limited space and construction plants will be available for construction in any one time. Thus, the construction activities under the "Cut and Cover" category that would contribute to dust emissions will unlikely to operate at the same time. In fact, only one of the above activities will operate in any one time. However, to be conservative, air quality impacts due to simultaneous construction of these activities has been taken into account in the assessment.

* The equation recommended for concerned particular construction activity as per Section 13.2.3 of USEPA AP-42 regarding heavy construction operation.

** The concerned construction activity of this Project during site formation stage will involve earth movement activities and transportation of excavated/ fill materials, etc. The nature of these activities is similar to that of quarry operation. Thus, the typical silt loading within the range of typical values from quarry site, as stipulated in USEPA AP-42, Table 13.2.1-3, S13.2.1, 11/06 ed., is adopted in the above equation. The reported highest silt loading value has been used in this exercise for worst case scenario. It is noted that similar assumption has also been adopted for paved construction haul road in the approved EIA report, Appendix F of the "EIA-032/1999 - East Rail Extension Hung Hom to Tsim Sha Tsui - Environmental Impact Assessment".

@ Please refer to Appendix 3-10 for the ratio of RSP/ TSP adopted.

*Annex 2
(in Appendix 3-11A)*

*Information of Predicted TSP, RSP and FSP Concentrations Due
to Planned “REC Site” project
(Directly Extracted from the Approved “REC Site “ EIA Report)*

Annex 2 Calculated Pollutants Levels for Planned “REC Site” project
(Directly Extracted from Section 3.10 of the Approved EIA Report of “REC Site” project)

The predicted mitigated hourly average TSP concentrations, as well as daily average and annual average RSP and FSP concentrations due to construction of the planned “REC Site” project are reproduced and presented in Tables 1 to 5 below. Please refer to the attached location map for the locations of ASRs.

Table 1 Predicted Maximum Hourly TSP Concentrations Due to Southern Portion (Mitigated Scenario)

ASR No.	Description	Ground Level, mPD	Height Above Ground, m	TSP Concentration ($\mu\text{g}/\text{m}^3$)	
				Without Background *	With Background **
A01	Fairview Park	4.4	1.5 / 4.5 / 7.5	165 / 69 / 45	229 / 164 / 164
A01A	Fairview Park	4.4	1.5 / 4.5 / 7.5	195 / 98 / 57	326 / 203 / 166
A02	Fairview Park	4.4	1.5 / 4.5 / 7.5	126 / 70 / 46	173 / 164 / 164
A02A	Fairview Park	4.4	1.5 / 4.5 / 7.5	335 / 81 / 46	405 / 164 / 164
A03	Fairview Park	4.4	1.5 / 4.5 / 7.5	143 / 102 / 62	179 / 164 / 164
A04	Fairview Park	4.3	1.5 / 4.5 / 7.5	178 / 122 / 84	225 / 166 / 164
A05	Fairview Park	4.2	1.5 / 4.5 / 7.5	34 / 32 / 29	164 / 164 / 164
A05A	Fairview Park	4.2	1.5 / 4.5 / 7.5	35 / 34 / 33	164 / 164 / 164
A05B	Fairview Park	4.2	1.5 / 4.5 / 7.5	30 / 28 / 26	164 / 164 / 164
A06	Fairview Park	4.2	1.5 / 4.5 / 7.5	16 / 16 / 15	164 / 164 / 164
A06A	Fairview Park	4.2	1.5 / 4.5 / 7.5	20 / 20 / 19	164 / 164 / 164
A07	Yau Mei San Tsuen village house	3.1	1.5 / 4.5 / 7.5	9 / 9 / 8	164 / 164 / 164
A08	Chuk Yuen Tsuen village house	2.3	1.5 / 4.5 / 7.5	23 / 21 / 19	164 / 164 / 164
A09	Chuk Yuen Tsuen village house	3.5	1.5 / 4.5 / 7.5	25 / 24 / 22	164 / 164 / 164
A10	Bethel High School	4.4	1.5 / 4.5 / 7.5	104 / 70 / 44	164 / 164 / 164
A10A	Bethel High School	4.4	1.5 / 4.5 / 7.5	138 / 64 / 50	217 / 164 / 164
A11	Helene Terrace	4.5	1.5 / 4.5 / 7.5	31 / 28 / 24	164 / 164 / 164
A12	Villa Camilla	6.5	1.5 / 4.5 / 7.5	22 / 21 / 19	165 / 165 / 165
A13	Fairview Park	4.6	1.5 / 4.5 / 7.5	121 / 81 / 54	215 / 182 / 167
A14	Wong Chan Sook Ying Memorial School	4.4	1.5 / 4.5 / 7.5	108 / 80 / 49	164 / 164 / 164
A15	Man Yuen Tsuen village house	4.1	1.5 / 4.5 / 7.5	36 / 35 / 33	164 / 164 / 164
A16	Fairview Park	4.2	1.5 / 4.5 / 7.5	14 / 14 / 13	164 / 164 / 164
A16A	Fairview Park	4.2	1.5 / 4.5 / 7.5	16 / 15 / 15	164 / 164 / 164
A17	Palm Springs	5.7	1.5 / 4.5 / 7.5	7 / 7 / 7	164 / 164 / 164
A18	Yau Mei San Tsuen village house	3.5	1.5 / 4.5 / 7.5	8 / 8 / 8	164 / 164 / 164

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ASR No.	Description	Ground Level, mPD	Height Above Ground, m	TSP Concentration ($\mu\text{g}/\text{m}^3$)	
				Without Background *	With Background **
A19	Chuk Yuen Tsuen village house	3.3	1.5 / 4.5 / 7.5	19 / 18 / 17	164 / 164 / 164
A20	Hang Fook Garden	4.2	1.5 / 4.5 / 7.5	49 / 47 / 42	164 / 164 / 164
A21	Ha San Wai village house	4.2	1.5 / 4.5 / 7.5	17 / 16 / 15	164 / 164 / 164
A22	Ha San Wai village house	3.5	1.5 / 4.5 / 7.5	22 / 21 / 20	165 / 165 / 165
A23	Yau Mei San Tsuen village house	3.6	1.5 / 4.5 / 7.5	7 / 7 / 7	164 / 164 / 164
A24	Christian Ministry Institute	3.5	1.5 / 4.5 / 7.5	6 / 6 / 6	164 / 164 / 164
A25	Royal Palms	4.9	1.5 / 4.5 / 7.5	7 / 7 / 7	164 / 164 / 164
A26	Hong Chi Morninglight School Yuen Long	4.4	1.5 / 4.5 / 7.5	7 / 7 / 7	164 / 164 / 164
A27	Existing building	4.5	1.5 / 4.5 / 7.5	61 / 57 / 49	167 / 167 / 166
A28	Fairview Park	4.3	1.5 / 4.5 / 7.5	18 / 17 / 16	164 / 164 / 164
A29	Fairview Park	4.3	1.5 / 4.5 / 7.5	19 / 19 / 18	164 / 164 / 164
A30	Fairview Park	4.5	1.5 / 4.5 / 7.5	78 / 73 / 65	164 / 164 / 164
A31	Fairview Park	3.9	1.5 / 4.5 / 7.5	13 / 13 / 12	164 / 164 / 164
A32	A Restaurant near Helene Terrace	4.5	1.5 / 4.5 / 7.5	60 / 52 / 40	164 / 164 / 164
A33	Fairview Park	3.9	1.5 / 4.5 / 7.5	12 / 12 / 12	164 / 164 / 164
A34	Palm Springs	5.2	1.5 / 4.5 / 7.5	9 / 8 / 8	164 / 164 / 164
A35	Palm Springs	5	1.5 / 4.5 / 7.5	8 / 7 / 7	164 / 164 / 164
A36	Yau Mei San Tsuen village house	3.5	1.5 / 4.5 / 7.5	9 / 9 / 9	164 / 164 / 164
A1P	Planned "Yau Mei Site"	2	1.5 / 4.5 / 7.5	N/A	N/A
A2P	Planned "Kam Pok Road Site"	5	1.5 / 4.5 / 7.5	N/A	N/A
A3P	Planned "Kam Pok Road Site"	7	1.5 / 4.5 / 7.5	N/A	N/A
A4P #	Planned "RD Site"	3	1.5 / 4.5 / 7.5	47 / 43 / 37	164 / 164 / 164
A5P #	Planned "RD Site"	3	1.5 / 4.5 / 7.5	10 / 10 / 10	164 / 164 / 164
V01	Planned NT exempted houses	3	1.5 / 4.5 / 7.5	40 / 36 / 28	164 / 164 / 164
V02	Planned "V" zone	2.4	1.5 / 4.5 / 7.5	12 / 12 / 12	164 / 164 / 164
V03	Planned "V" zone	3	1.5 / 4.5 / 7.5	41 / 37 / 31	178 / 175 / 169
V04	Planned "RD" zone	4.8	1.5 / 4.5 / 7.5	94 / 82 / 63	164 / 164 / 164
Max. Conc.			-	335	405
Criteria			-	500	500

Remark: * Concentration due to contribution of Project Site

** The above results have included the background level extracted from the PATH Output (year 2015). The hour-by-hour background contribution is estimated using output of PATH model, and added hour-by-hour to the Project contribution.

It is considered that A4P and A5P adopted in the approved "REC Site" EIA report are representative to present the construction dust impact at A2Pa and A1Pa adopted in this EIA Report, respectively.

N/A - Not applicable in this cumulative impact assessment.

Table 2 Predicted Daily Average RSP Concentrations Due to Southern Portion (Mitigated Scenario)

ASR No.	Description	Ground Level, mPD	Height Above Ground, m	RSP Concentration ($\mu\text{g}/\text{m}^3$)	
				Without Background *	With Background **
A01	Fairview Park	4.4	1.5 / 4.5 / 7.5	13 / 5 / 2	117 / 112 / 111
A01A	Fairview Park	4.4	1.5 / 4.5 / 7.5	8 / 5 / 2	114 / 113 / 112
A02	Fairview Park	4.4	1.5 / 4.5 / 7.5	11 / 5 / 2	111 / 111 / 111
A02A	Fairview Park	4.4	1.5 / 4.5 / 7.5	7 / 2 / 1	111 / 111 / 111
A03	Fairview Park	4.4	1.5 / 4.5 / 7.5	11 / 5 / 2	111 / 111 / 111
A04	Fairview Park	4.3	1.5 / 4.5 / 7.5	14 / 4 / 2	111 / 111 / 111
A05	Fairview Park	4.2	1.5 / 4.5 / 7.5	1 / 1 / 1	111 / 111 / 111
A05A	Fairview Park	4.2	1.5 / 4.5 / 7.5	2 / 1 / 1	111 / 111 / 111
A05B	Fairview Park	4.2	1.5 / 4.5 / 7.5	1 / 1 / 1	111 / 111 / 111
A06	Fairview Park	4.2	1.5 / 4.5 / 7.5	1 / 1 / 1	111 / 111 / 111
A06A	Fairview Park	4.2	1.5 / 4.5 / 7.5	1 / 1 / 1	111 / 111 / 111
A07	Yau Mei San Tsuen village house	3.1	1.5 / 4.5 / 7.5	0 / 0 / 0	111 / 111 / 111
A08	Chuk Yuen Tsuen village house	2.3	1.5 / 4.5 / 7.5	1 / 1 / 1	111 / 111 / 111
A09	Chuk Yuen Tsuen village house	3.5	1.5 / 4.5 / 7.5	1 / 1 / 0	111 / 111 / 111
A10	Bethel High School	4.4	1.5 / 4.5 / 7.5	5 / 3 / 2	112 / 111 / 111
A10A	Bethel High School	4.4	1.5 / 4.5 / 7.5	4 / 3 / 2	113 / 112 / 111
A11	Helene Terrace	4.5	1.5 / 4.5 / 7.5	1 / 1 / 0	111 / 111 / 111
A12	Villa Camilla	6.5	1.5 / 4.5 / 7.5	0 / 0 / 0	111 / 111 / 111
A13	Fairview Park	4.6	1.5 / 4.5 / 7.5	11 / 4 / 3	111 / 111 / 111
A14	Wong Chan Sook Ying Memorial School	4.4	1.5 / 4.5 / 7.5	5 / 4 / 2	111 / 111 / 111
A15	Man Yuen Tsuen village house	4.1	1.5 / 4.5 / 7.5	1 / 1 / 1	111 / 111 / 111
A16	Fairview Park	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	111 / 111 / 111
A16A	Fairview Park	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	111 / 111 / 111
A17	Palm Springs	5.7	1.5 / 4.5 / 7.5	0 / 0 / 0	111 / 111 / 111
A18	Yau Mei San Tsuen village house	3.5	1.5 / 4.5 / 7.5	0 / 0 / 0	111 / 111 / 111
A19	Chuk Yuen Tsuen village house	3.3	1.5 / 4.5 / 7.5	0 / 0 / 0	111 / 111 / 111
A20	Hang Fook Garden	4.2	1.5 / 4.5 / 7.5	1 / 0 / 0	111 / 111 / 111
A21	Ha San Wai village house	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	111 / 111 / 111
A22	Ha San Wai village house	3.5	1.5 / 4.5 / 7.5	0 / 0 / 0	111 / 111 / 111
A23	Yau Mei San Tsuen village house	3.6	1.5 / 4.5 / 7.5	0 / 0 / 0	111 / 111 / 111
A24	Christian Ministry Institute	3.5	1.5 / 4.5 / 7.5	0 / 0 / 0	111 / 111 / 111
A25	Royal Palms	4.9	1.5 / 4.5 / 7.5	0 / 0 / 0	111 / 111 / 111

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ASR No.	Description	Ground Level, mPD	Height Above Ground, m	RSP Concentration ($\mu\text{g}/\text{m}^3$)	
				Without Background *	With Background **
A26	Hong Chi Morninglight School Yuen Long	4.4	1.5 / 4.5 / 7.5	0 / 0 / 0	111 / 111 / 111
A27	Existing building	4.5	1.5 / 4.5 / 7.5	1 / 1 / 1	111 / 111 / 111
A28	Fairview Park	4.3	1.5 / 4.5 / 7.5	1 / 0 / 0	111 / 111 / 111
A29	Fairview Park	4.3	1.5 / 4.5 / 7.5	1 / 1 / 0	111 / 111 / 111
A30	Fairview Park	4.5	1.5 / 4.5 / 7.5	4 / 2 / 2	111 / 111 / 111
A31	Fairview Park	3.9	1.5 / 4.5 / 7.5	1 / 1 / 1	111 / 111 / 111
A32	A Restaurant near Helene Terrace	4.5	1.5 / 4.5 / 7.5	1 / 1 / 1	111 / 111 / 111
A33	Fairview Park	3.9	1.5 / 4.5 / 7.5	1 / 1 / 1	111 / 111 / 111
A34	Palm Springs	5.2	1.5 / 4.5 / 7.5	0 / 0 / 0	111 / 111 / 111
A35	Palm Springs	5	1.5 / 4.5 / 7.5	0 / 0 / 0	111 / 111 / 111
A36	Yau Mei San Tsuen village house	3.5	1.5 / 4.5 / 7.5	0 / 0 / 0	111 / 111 / 111
A1P	Planned "Yau Mei Site"	2	1.5 / 4.5 / 7.5	N/A	N/A
A2P	Planned "Kam Pok Road Site"	5	1.5 / 4.5 / 7.5	N/A	N/A
A3P	Planned "Kam Pok Road Site"	7	1.5 / 4.5 / 7.5	N/A	N/A
A4P #	Planned RD Site	3	1.5 / 4.5 / 7.5	2 / 2 / 2	111 / 111 / 111
A5P #	Planned RD Site	3	1.5 / 4.5 / 7.5	0 / 0 / 0	111 / 111 / 111
V01	Planned NT exempted houses	3	1.5 / 4.5 / 7.5	1 / 1 / 1	111 / 111 / 111
V02	Planned "V" zone	2.4	1.5 / 4.5 / 7.5	0 / 0 / 0	111 / 111 / 111
V03	Planned "V" zone	3	1.5 / 4.5 / 7.5	1 / 1 / 1	111 / 111 / 111
V04	Planned "RD" zone	4.8	1.5 / 4.5 / 7.5	2 / 1 / 1	112 / 112 / 111
Max. Conc.			-	14	117
No. of Exceedance @				-	2
Criteria			-	100 (no. of exceedance allowed <= 9)	

Remark: The above results are based on the 1st highest daily average concentrations.

* Concentration due to contribution of Project Site

** The above results have included the background level extracted from the PATH Output (year 2015). The hour-by-hour background contribution is estimated using output of PATH model, and added hour-by-hour to the Project contribution.

@ Total no. of exceedance based on the calculated cumulative concentration.

It is considered that A4P and A5P adopted in the approved "REC Site" EIA report are representative to present the construction dust impact at A2Pa and A1Pa adopted in this EIA Report, respectively.

N/A - Not applicable in this cumulative impact assessment.

Table 3 Predicted Daily Average FSP Concentrations Due to Southern Portion (Mitigated Scenario)

ASR No.	Description	Ground Level, mPD	Height Above Ground, m	FSP Concentration ($\mu\text{g}/\text{m}^3$)	
				Without Background *	With Background **
A01	Fairview Park	4.4	1.5 / 4.5 / 7.5	4 / 1 / 1	85 / 83 / 83
A01A	Fairview Park	4.4	1.5 / 4.5 / 7.5	3 / 1 / 1	84 / 84 / 83
A02	Fairview Park	4.4	1.5 / 4.5 / 7.5	3 / 1 / 1	83 / 83 / 83
A02A	Fairview Park	4.4	1.5 / 4.5 / 7.5	2 / 0 / 0	83 / 83 / 83
A03	Fairview Park	4.4	1.5 / 4.5 / 7.5	3 / 2 / 1	83 / 83 / 83
A04	Fairview Park	4.3	1.5 / 4.5 / 7.5	4 / 1 / 1	83 / 83 / 83
A05	Fairview Park	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A05A	Fairview Park	4.2	1.5 / 4.5 / 7.5	1 / 0 / 0	83 / 83 / 83
A05B	Fairview Park	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A06	Fairview Park	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A06A	Fairview Park	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A07	Yau Mei San Tsuen village house	3.1	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A08	Chuk Yuen Tsuen village house	2.3	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A09	Chuk Yuen Tsuen village house	3.5	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A10	Bethel High School	4.4	1.5 / 4.5 / 7.5	1 / 1 / 1	83 / 83 / 83
A10A	Bethel High School	4.4	1.5 / 4.5 / 7.5	1 / 1 / 1	84 / 83 / 83
A11	Helene Terrace	4.5	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A12	Villa Camilla	6.5	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A13	Fairview Park	4.6	1.5 / 4.5 / 7.5	3 / 1 / 1	83 / 83 / 83
A14	Wong Chan Sook Ying Memorial School	4.4	1.5 / 4.5 / 7.5	2 / 1 / 1	83 / 83 / 83
A15	Man Yuen Tsuen village house	4.1	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A16	Fairview Park	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A16A	Fairview Park	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A17	Palm Springs	5.7	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A18	Yau Mei San Tsuen village house	3.5	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A19	Chuk Yuen Tsuen village house	3.3	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A20	Hang Fook Garden	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A21	Ha San Wai village house	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A22	Ha San Wai village house	3.5	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A23	Yau Mei San Tsuen village house	3.6	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A24	Christian Ministry Institute	3.5	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A25	Royal Palms	4.9	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A26	Hong Chi Morninglight School Yuen Long	4.4	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83

ASR No.	Description	Ground Level, mPD	Height Above Ground, m	FSP Concentration ($\mu\text{g}/\text{m}^3$)	
				Without Background *	With Background **
A27	Existing building	4.5	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A28	Fairview Park	4.3	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A29	Fairview Park	4.3	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A30	Fairview Park	4.5	1.5 / 4.5 / 7.5	1 / 1 / 1	83 / 83 / 83
A31	Fairview Park	3.9	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A32	A Restaurant near Helene Terrace	4.5	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A33	Fairview Park	3.9	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A34	Palm Springs	5.2	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A35	Palm Springs	5	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A36	Yau Mei San Tsuen village house	3.5	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
A1P	Planned "Yau Mei Site"	2	1.5 / 4.5 / 7.5	N/A	N/A
A2P	Planned "Kam Pok Road Site"	5	1.5 / 4.5 / 7.5	N/A	N/A
A3P	Planned "Kam Pok Road Site"	7	1.5 / 4.5 / 7.5	N/A	N/A
A4P #	Planned RD Site	3	1.5 / 4.5 / 7.5	1 / 1 / 0	83 / 83 / 83
A5P #	Planned RD Site	3	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
V01	Planned NT exempted houses	3	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
V02	Planned "V" zone	2.4	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
V03	Planned "V" zone	3	1.5 / 4.5 / 7.5	0 / 0 / 0	83 / 83 / 83
V04	Planned "RD" zone	4.8	1.5 / 4.5 / 7.5	1 / 0 / 0	83 / 83 / 83
Max. Conc.			-	4	85
No. of Exceedance @				-	2
Criteria			-	75 (no. of exceedance allowed <= 9)	

Remark: The above results are based on the 1st highest daily average concentrations

* Concentration due to contribution of Project Site.

** The above results have included the background level extracted from the PATH Output (year 2015). The hour-by-hour background contribution is estimated using output of PATH model, and added hour-by-hour to the Project contribution.

@ Total no. of exceedance based on the calculated cumulative concentration.

It is considered that A4P and A5P adopted in the approved "REC Site" EIA report are representative to present the construction dust impact at A2Pa and A1Pa adopted in this EIA Report, respectively.

N/A - Not applicable in this cumulative impact assessment.

Table 4 Predicted Annual Average RSP Concentrations Due to Southern Portion (Mitigated Scenario)

ASR No.	Description	Ground Level, mPD	Height Above Ground, m	RSP Concentration ($\mu\text{g}/\text{m}^3$)	
				Without Background *	With Background **
A01	Fairview Park	4.4	1.5 / 4.5 / 7.5	1 / 0.4 / 0.2	44.2 / 43.6 / 43.5
A01A	Fairview Park	4.4	1.5 / 4.5 / 7.5	0.7 / 0.4 / 0.2	43.9 / 43.6 / 43.5
A02	Fairview Park	4.4	1.5 / 4.5 / 7.5	0.4 / 0.2 / 0.1	43.7 / 43.4 / 43.4
A02A	Fairview Park	4.4	1.5 / 4.5 / 7.5	0.2 / 0.1 / 0.1	43.4 / 43.4 / 43.3
A03	Fairview Park	4.4	1.5 / 4.5 / 7.5	0.7 / 0.3 / 0.2	43.9 / 43.6 / 43.4
A04	Fairview Park	4.3	1.5 / 4.5 / 7.5	0.5 / 0.2 / 0.1	43.7 / 43.5 / 43.4
A05	Fairview Park	4.2	1.5 / 4.5 / 7.5	0.1 / 0.1 / 0.1	43.3 / 43.3 / 43.3
A05A	Fairview Park	4.2	1.5 / 4.5 / 7.5	0.1 / 0.1 / 0.1	43.3 / 43.3 / 43.3
A05B	Fairview Park	4.2	1.5 / 4.5 / 7.5	0.1 / 0.1 / 0.1	43.3 / 43.3 / 43.3
A06	Fairview Park	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A06A	Fairview Park	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A07	Yau Mei San Tsuen village house	3.1	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A08	Chuk Yuen Tsuen village house	2.3	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A09	Chuk Yuen Tsuen village house	3.5	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A10	Bethel High School	4.4	1.5 / 4.5 / 7.5	0.4 / 0.2 / 0.1	43.7 / 43.5 / 43.4
A10A	Bethel High School	4.4	1.5 / 4.5 / 7.5	0.3 / 0.2 / 0.1	43.6 / 43.5 / 43.4
A11	Helene Terrace	4.5	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A12	Villa Camilla	6.5	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A13	Fairview Park	4.6	1.5 / 4.5 / 7.5	0.4 / 0.3 / 0.2	43.7 / 43.5 / 43.4
A14	Wong Chan Sook Ying Memorial School	4.4	1.5 / 4.5 / 7.5	0.2 / 0.1 / 0.1	43.4 / 43.4 / 43.3
A15	Man Yuen Tsuen village house	4.1	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A16	Fairview Park	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A16A	Fairview Park	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A17	Palm Springs	5.7	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A18	Yau Mei San Tsuen village house	3.5	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A19	Chuk Yuen Tsuen village house	3.3	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A20	Hang Fook Garden	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A21	Ha San Wai village house	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A22	Ha San Wai village house	3.5	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A23	Yau Mei San Tsuen village house	3.6	1.5 / 4.5 / 7.5	0 / 0 / 0	43.2 / 43.2 / 43.2
A24	Christian Ministry Institute	3.5	1.5 / 4.5 / 7.5	0 / 0 / 0	43.2 / 43.2 / 43.2

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ASR No.	Description	Ground Level, mPD	Height Above Ground, m	RSP Concentration ($\mu\text{g}/\text{m}^3$)	
				Without Background *	With Background **
A25	Royal Palms	4.9	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A26	Hong Chi Morninglight School Yuen Long	4.4	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A27	Existing building	4.5	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A28	Fairview Park	4.3	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A29	Fairview Park	4.3	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A30	Fairview Park	4.5	1.5 / 4.5 / 7.5	0.2 / 0.2 / 0.1	43.4 / 43.4 / 43.4
A31	Fairview Park	3.9	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A32	A Restaurant near Helene Terrace	4.5	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A33	Fairview Park	3.9	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A34	Palm Springs	5.2	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A35	Palm Springs	5	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A36	Yau Mei San Tsuen village house	3.5	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
A1P	Planned "Yau Mei Site"	2	1.5 / 4.5 / 7.5	N/A	N/A
A2P	Planned "Kam Pok Road Site"	5	1.5 / 4.5 / 7.5	N/A	N/A
A3P	Planned "Kam Pok Road Site"	7	1.5 / 4.5 / 7.5	N/A	N/A
A4P #	Planned RD Site	3	1.5 / 4.5 / 7.5	0.1 / 0.1 / 0	43.3 / 43.3 / 43.3
A5P #	Planned RD Site	3	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
V01	Planned NT exempted houses	3	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
V02	Planned "V" zone	2.4	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
V03	Planned "V" zone	3	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
V04	Planned "RD" zone	4.8	1.5 / 4.5 / 7.5	0 / 0 / 0	43.3 / 43.3 / 43.3
Max. Conc.			-	1.0	44.2
Criteria			-	50	50

Remark: * Concentration due to contribution of Project Site.

** The above results have included the background level extracted from the PATH Output (year 2015). The hour-by-hour background contribution is estimated using output of PATH model, and added hour-by-hour to the Project contribution.

It is considered that A4P and A5P adopted in the approved "REC Site" EIA report are representative to present the construction dust impact at A2Pa and A1Pa adopted in this EIA Report, respectively.

N/A - Not applicable in this cumulative impact assessment.

Table 5 Predicted Annual Average FSP Concentrations Due to Southern Portion (Mitigated Scenario)

ASR No.	Description	Ground Level, mPD	Height Above Ground, m	FSP Concentration ($\mu\text{g}/\text{m}^3$)	
				Without Background *	With Background **
A01	Fairview Park	4.4	1.5 / 4.5 / 7.5	0.3 / 0.1 / 0.1	31 / 30.8 / 30.8
A01A	Fairview Park	4.4	1.5 / 4.5 / 7.5	0.2 / 0.1 / 0.1	30.9 / 30.8 / 30.8
A02	Fairview Park	4.4	1.5 / 4.5 / 7.5	0.1 / 0.1 / 0	30.8 / 30.8 / 30.7
A02A	Fairview Park	4.4	1.5 / 4.5 / 7.5	0.1 / 0 / 0	30.8 / 30.7 / 30.7
A03	Fairview Park	4.4	1.5 / 4.5 / 7.5	0.2 / 0.1 / 0	30.9 / 30.8 / 30.8
A04	Fairview Park	4.3	1.5 / 4.5 / 7.5	0.1 / 0.1 / 0	30.8 / 30.8 / 30.7
A05	Fairview Park	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A05A	Fairview Park	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A05B	Fairview Park	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A06	Fairview Park	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A06A	Fairview Park	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A07	Yau Mei San Tsuen village house	3.1	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A08	Chuk Yuen Tsuen village house	2.3	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A09	Chuk Yuen Tsuen village house	3.5	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A10	Bethel High School	4.4	1.5 / 4.5 / 7.5	0.1 / 0.1 / 0	30.8 / 30.8 / 30.7
A10A	Bethel High School	4.4	1.5 / 4.5 / 7.5	0.1 / 0.1 / 0	30.8 / 30.8 / 30.7
A11	Helene Terrace	4.5	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A12	Villa Camilla	6.5	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A13	Fairview Park	4.6	1.5 / 4.5 / 7.5	0.1 / 0.1 / 0	30.8 / 30.8 / 30.8
A14	Wong Chan Sook Ying Memorial School	4.4	1.5 / 4.5 / 7.5	0 / 0 / 0	30.8 / 30.7 / 30.7
A15	Man Yuen Tsuen village house	4.1	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A16	Fairview Park	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A16A	Fairview Park	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A17	Palm Springs	5.7	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A18	Yau Mei San Tsuen village house	3.5	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A19	Chuk Yuen Tsuen village house	3.3	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A20	Hang Fook Garden	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A21	Ha San Wai village house	4.2	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A22	Ha San Wai village house	3.5	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A23	Yau Mei San Tsuen village house	3.6	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A24	Christian Ministry Institute	3.5	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A25	Royal Palms	4.9	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A26	Hong Chi Morninglight School Yuen Long	4.4	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7

ASR No.	Description	Ground Level, mPD	Height Above Ground, m	FSP Concentration ($\mu\text{g}/\text{m}^3$)	
				Without Background *	With Background **
A27	Existing building	4.5	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A28	Fairview Park	4.3	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A29	Fairview Park	4.3	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A30	Fairview Park	4.5	1.5 / 4.5 / 7.5	0.1 / 0 / 0	30.8 / 30.7 / 30.7
A31	Fairview Park	3.9	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A32	A Restaurant near Helene Terrace	4.5	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A33	Fairview Park	3.9	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A34	Palm Springs	5.2	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A35	Palm Springs	5	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A36	Yau Mei San Tsuen village house	3.5	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A1P	Planned "Yau Mei Site"	2	1.5 / 4.5 / 7.5	N/A	N/A
A2P	Planned "Kam Pok Road Site"	5	1.5 / 4.5 / 7.5	N/A	N/A
A3P	Planned "Kam Pok Road Site"	7	1.5 / 4.5 / 7.5	N/A	N/A
A4P #	Planned RD Site	3	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
A5P #	Planned RD Site	3	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
V01	Planned NT exempted houses	3	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
V02	Planned "V" zone	2.4	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
V03	Planned "V" zone	3	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
V04	Planned "RD" zone	4.8	1.5 / 4.5 / 7.5	0 / 0 / 0	30.7 / 30.7 / 30.7
Max. Conc.			-	0.3	31
Criteria			-	35	35

Remark: * Concentration due to contribution of Project Site.

** The above results have included the background level extracted from the PATH Output (year 2015). The hour-by-hour background contribution is estimated using output of PATH model, and added hour-by-hour to the Project contribution.

It is considered that A4P and A5P adopted in the approved "REC Site" EIA report are representative to present the construction dust impact at A2Pa and A1Pa adopted in this EIA Report, respectively.

N/A - Not applicable in this cumulative impact assessment.

Locations of ASRS Assessed in the Approved "REC Site" EIA Report

(Directly Extracted from Figure 3-2 of the Approved EIA Report of the "REC Site" Project (AEIAR-182-2014))

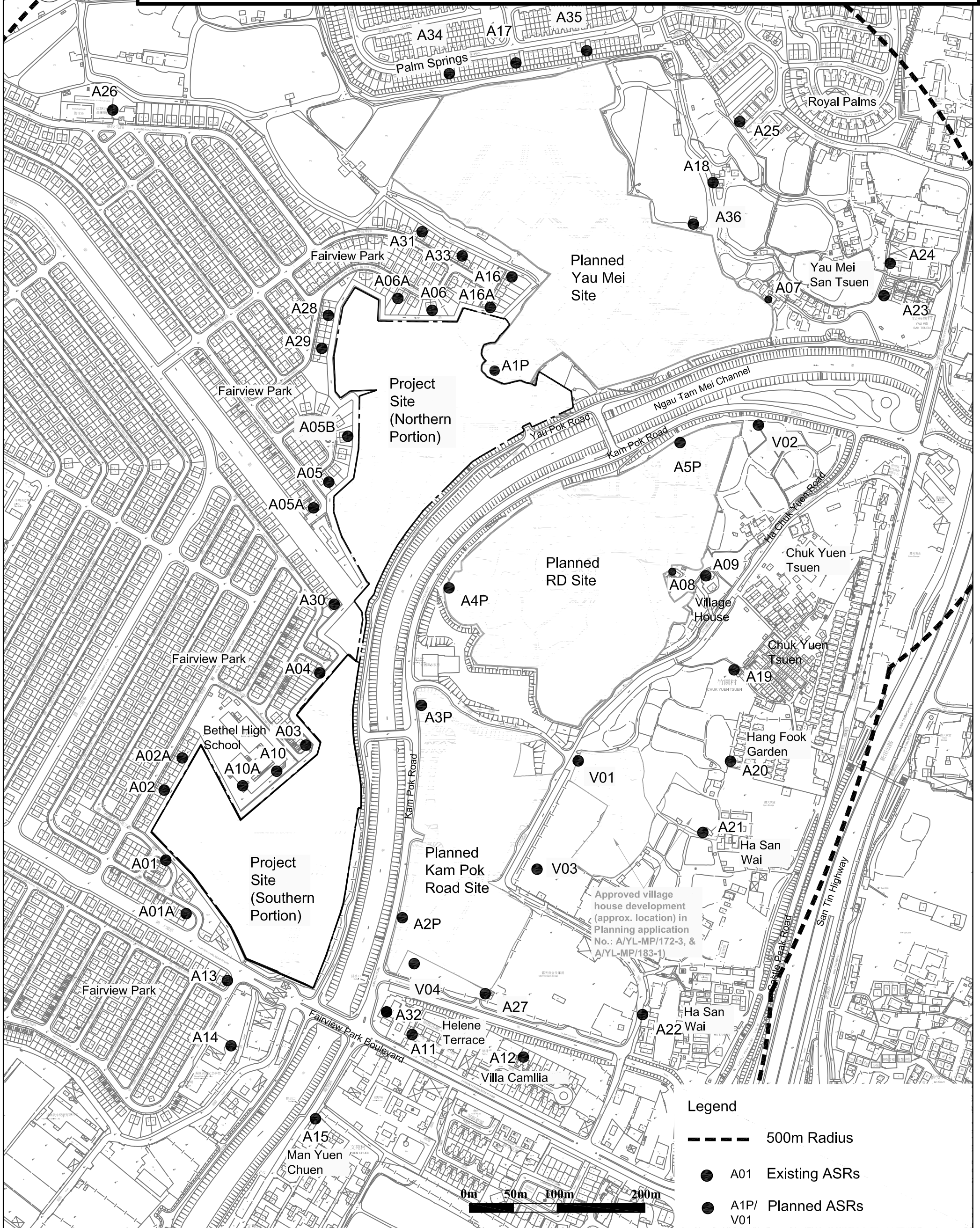


Figure: 3-2

Title: Representative ASRs Selected for Construction Phase Air Quality Assessment

Project: EIA for Proposed Residential and Passive Recreation Development within "Recreation" (REC) Zone and "Residential (Group C)" Zone at Various Lots in DD 104, Yuen Long, N.T.

ENVIRON

Drawn by: HN

Checked by: TC

Rev.: 1.4

Date: Dec, 2013

*Annex 3
(in Appendix 3-11A)*

*Calculated Cumulative TSP, RSP and FSP Concentrations Due to
Concurrent Construction with “Yau Mei Site”
Project and “REC Site” project*

Annex 3-1A Summary Table of Cumulative Highest Hourly TSP Level (Mitigated Scenario)

ASR	X	Y	Z	Height above ground	Due to this Project Only (extracted from Appendix 3-6)		Due to Cumulative Construction with planned "Yau Mei Site" and "REC Site" Projects	
					Max. Hourly TSP (With Bkg. Level) *	Max. Hourly TSP (W/o Bkg.)	Max. Hourly TSP (With Bkg. Level) *	Max. Hourly TSP (W/o Bkg.)
					With Bkg. Level	Without Bkg. level	With Bkg. Level	Without Bkg. level
A01	823101.12	837242.4	4.4	1.5	164	35	176	117
A01A	823124.28	837181.3	4.4	1.5	164	32	164	46
A02	823092.84	837314	4.4	1.5	164	28	164	57
A02A	823119.86	837359.1	4.4	1.5	164	35	164	43
A03	823260.81	837373.7	4.4	1.5	164	61	164	74
A04	823276.81	837456.1	4.3	1.5	164	53	164	53
A05	823287.12	837673.9	4.2	1.5	164	17	164	29
A05A	823269.63	837644.5	4.2	1.5	164	24	164	31
A05B	823308.73	837726.2	4.2	1.5	164	15	164	39
A06	823405	837870	4.2	1.5	164	21	164	66
A06A	823365.92	837883.6	4.2	1.5	164	15	164	56
A07	823788.62	837882.5	3.1	1.5	164	8	295	212
A08	823679.12	837571.7	2.3	1.5	164	16	164	47
A09	823717.31	837567	3.5	1.5	164	19	165	42
A10	823227.62	837343.9	4.4	1.5	164	54	164	68
A10A	823188.8	837327.3	4.4	1.5	164	46	164	58
A11	823382.12	837043.2	4.5	1.5	171	88	171	88
A12	823509.19	837017.6	6.5	1.5	166	56	166	58
A13	823171.38	837105	4.6	1.5	164	38	164	38
A14	823175.5	837030.5	4.4	1.5	164	45	164	45
A15	823271.81	836947.2	4.1	1.5	164	36	164	36
A16	823496	837908.2	4.2	1.5	164	10	218	184
A16A	823470.21	837871.6	4.2	1.5	164	11	185	134
A17	823500.62	838152.4	5.7	1.5	164	6	164	56
A18	823725.62	838015.9	3.5	1.5	164	10	219	114
A19	823749.5	837459.6	3.3	1.5	164	26	164	31
A20	823745.38	837355.3	4.2	1.5	164	33	164	33
A21	823713.88	837274	4.2	1.5	164	36	164	36
A22	823645.12	837066.1	3.5	1.5	165	49	165	49
A23	823920.62	837886.7	3.6	1.5	164	9	164	48
A24	823927.69	837923.6	3.5	1.5	164	9	164	44
A25	823756	838085.2	4.9	1.5	164	10	200	69
A26	823040.62	838098.6	4.4	1.5	164	9	164	55
A27	823465.59	837089.9	4.5	1.5	316	226	316	227
A28	823286.57	837864.2	4.3	1.5	164	10	164	33
A29	823279.17	837826.6	4.3	1.5	164	11	164	37
A30	823293.2	837534.5	4.5	1.5	164	44	164	44
A31	823393.53	837959.7	3.9	1.5	164	14	181	123
A32	823353.02	837069.1	4.5	1.5	166	89	166	89
A33	823439.27	837932.1	3.9	1.5	164	19	177	132
A34	823424.53	838140.2	5.2	1.5	164	13	164	43
A35	823581.4	838166.3	5	1.5	164	6	177	94
A36	823703.1	837968.5	3.5	1.5	164	11	208	153
A1Pa	823687.9	837719	3	1.5	166	19	179	80
A2Pa	823545.2	837421.1	3	1.5	176	109	176	109
A3Pa	823454.7	837785.1	4	1.5	164	17	N/A	N/A
A4Pa	823304.9	837427.1	4	1.5	213	179	N/A	N/A
A5Pa	823602.1	837795.8	4	1.5	164	13	N/A	N/A
V01	823571.7	837355.7	3	1.5	168	152	168	152
V02	823780.1	837738.5	2.4	1.5	167	15	169	90
V03	823524.7	837232	3	1.5	227	164	227	164
V04	823384.5	837124.2	4.8	1.5	224	143	224	143
A01	823101.12	837242.4	4.4	4.5	164	31	164	46
A01A	823124.28	837181.3	4.4	4.5	164	30	164	40
A02	823092.84	837314	4.4	4.5	164	26	164	33
A02A	823119.86	837359.1	4.4	4.5	164	31	164	38
A03	823260.81	837373.7	4.4	4.5	164	45	164	45
A04	823276.81	837456.1	4.3	4.5	164	42	164	42
A05	823287.12	837673.9	4.2	4.5	164	16	164	28
A05A	823269.63	837644.5	4.2	4.5	164	23	164	28
A05B	823308.73	837726.2	4.2	4.5	164	14	164	36
A06	823405	837870	4.2	4.5	164	19	164	55
A06A	823365.92	837883.6	4.2	4.5	164	15	164	49
A07	823788.62	837882.5	3.1	4.5	164	8	215	132
A08	823679.12	837571.7	2.3	4.5	164	15	164	44
A09	823717.31	837567	3.5	4.5	164	15	165	40
A10	823227.62	837343.9	4.4	4.5	164	43	164	48
A10A	823188.8	837327.3	4.4	4.5	164	40	164	46
A11	823382.12	837043.2	4.5	4.5	164	72	164	72
A12	823509.19	837017.6	6.5	4.5	166	52	166	54
A13	823171.38	837105	4.6	4.5	164	36	164	36
A14	823175.5	837030.5	4.4	4.5	164	42	164	42
A15	823271.81	836947.2	4.1	4.5	164	34	164	34
A16	823496	837908.2	4.2	4.5	164	10	164	107
A16A	823470.21	837871.6	4.2	4.5	164	11	175	100
A17	823500.62	838152.4	5.7	4.5	164	6	164	49
A18	823725.62	838015.9	3.5	4.5	164	10	208	90
A19	823749.5	837459.6	3.3	4.5	164	24	164	30
A20	823745.38	837355.3	4.2	4.5	164	31	164	31
A21	823713.88	837274	4.2	4.5	164	33	164	33
A22	823645.12	837066.1	3.5	4.5	164	47	164	47
A23	823920.62	837886.7	3.6	4.5	164	9	164	43

ASR	X	Y	Z	Height above ground	Max. Hourly TSP (With Bkg. Level) *		Max. Hourly TSP (W/o Bkg.)	
					With Bkg. Level	Without Bkg. level	With Bkg. Level	Without Bkg. level
A24	823927.69	837923.6	3.5	4.5	164	9	164	43
A25	823756	838085.2	4.9	4.5	164	9	196	61
A26	823040.62	838098.6	4.4	4.5	164	9	164	53
A27	823465.59	837089.9	4.5	4.5	252	163	253	163
A28	823286.57	837864.2	4.3	4.5	164	10	164	31
A29	823279.17	837826.6	4.3	4.5	164	11	164	35
A30	823293.2	837534.5	4.5	4.5	164	42	164	42
A31	823393.53	837959.7	3.9	4.5	164	13	164	103
A32	823353.02	837069.1	4.5	4.5	164	82	164	82
A33	823439.27	837932.1	3.9	4.5	164	18	164	101
A34	823424.53	838140.2	5.2	4.5	164	13	164	42
A35	823581.4	838166.3	5	4.5	164	6	173	83
A36	823703.1	837968.5	3.5	4.5	164	11	190	94
A1Pa	823687.9	837719	3	4.5	166	18	169	67
A2Pa	823545.2	837421.1	3	4.5	167	94	167	94
A3Pa	823454.7	837785.1	4	4.5	164	16	N/A	N/A
A4Pa	823304.9	837427.1	4	4.5	164	110	N/A	N/A
A5Pa	823602.1	837795.8	4	4.5	164	13	N/A	N/A
V01	823571.7	837355.7	3	4.5	164	67	164	67
V02	823780.1	837738.5	2.4	4.5	167	14	168	77
V03	823524.7	837232	3	4.5	175	96	175	96
V04	823384.5	837124.2	4.8	4.5	164	77	164	85
A01	823101.12	837242.4	4.4	7.5	164	25	164	33
A01A	823124.28	837181.3	4.4	7.5	164	27	164	30
A02	823092.84	837314	4.4	7.5	164	24	164	29
A02A	823119.86	837359.1	4.4	7.5	164	24	164	28
A03	823260.81	837373.7	4.4	7.5	164	32	164	32
A04	823276.81	837456.1	4.3	7.5	164	29	164	29
A05	823287.12	837673.9	4.2	7.5	164	15	164	26
A05A	823269.63	837644.5	4.2	7.5	164	22	164	25
A05B	823308.73	837726.2	4.2	7.5	164	14	164	32
A06	823405	837870	4.2	7.5	164	18	164	45
A06A	823365.92	837883.6	4.2	7.5	164	14	164	37
A07	823788.62	837882.5	3.1	7.5	164	7	164	84
A08	823679.12	837571.7	2.3	7.5	164	14	164	38
A09	823717.31	837567	3.5	7.5	164	13	165	35
A10	823227.62	837343.9	4.4	7.5	164	38	164	38
A10A	823188.8	837327.3	4.4	7.5	164	33	164	33
A11	823382.12	837043.2	4.5	7.5	164	48	164	48
A12	823509.19	837017.6	6.5	7.5	165	45	165	46
A13	823171.38	837105	4.6	7.5	164	31	164	31
A14	823175.5	837030.5	4.4	7.5	164	37	164	37
A15	823271.81	836947.2	4.1	7.5	164	30	164	30
A16	823496	837908.2	4.2	7.5	164	10	164	55
A16A	823470.21	837871.6	4.2	7.5	164	10	164	58
A17	823500.62	838152.4	5.7	7.5	164	6	164	40
A18	823725.62	838015.9	3.5	7.5	164	10	192	58
A19	823749.5	837459.6	3.3	7.5	164	21	164	28
A20	823745.38	837355.3	4.2	7.5	164	26	164	26
A21	823713.88	837274	4.2	7.5	164	28	164	28
A22	823645.12	837066.1	3.5	7.5	164	43	164	43
A23	823920.62	837886.7	3.6	7.5	164	9	164	37
A24	823927.69	837923.6	3.5	7.5	164	8	164	39
A25	823756	838085.2	4.9	7.5	164	9	188	49
A26	823040.62	838098.6	4.4	7.5	164	9	164	49
A27	823465.59	837089.9	4.5	7.5	182	92	183	93
A28	823286.57	837864.2	4.3	7.5	164	10	164	28
A29	823279.17	837826.6	4.3	7.5	164	10	164	30
A30	823293.2	837534.5	4.5	7.5	164	38	164	38
A31	823393.53	837959.7	3.9	7.5	164	12	164	73
A32	823353.02	837069.1	4.5	7.5	164	70	164	70
A33	823439.27	837932.1	3.9	7.5	164	16	164	61
A34	823424.53	838140.2	5.2	7.5	164	12	164	40
A35	823581.4	838166.3	5	7.5	164	6	167	66
A36	823703.1	837968.5	3.5	7.5	164	10	178	69
A1Pa	823687.9	837719	3	7.5	165	18	165	56
A2Pa	823545.2	837421.1	3	7.5	165	71	165	71
A3Pa	823454.7	837785.1	4	7.5	164	14	N/A	N/A
A4Pa	823304.9	837427.1	4	7.5	164	43	N/A	N/A
A5Pa	823602.1	837795.8	4	7.5	164	13	N/A	N/A
V01	823571.7	837355.7	3	7.5	164	51	164	51
V02	823780.1	837738.5	2.4	7.5	166	14	168	58
V03	823524.7	837232	3	7.5	164	65	164	65
V04	823384.5	837124.2	4.8	7.5	164	65	164	72
Max. TSP Level, ug/m³					316	226	316	227
Relevant AQO Criteria, ug/m³					500	500	500	500

Remark: * The above results have included the background level extracted from the PATH Output (year 2015). The hour-by-hour background contribution is estimated using output file of PATH model, and added hour-by-hour to the Project contribution in order to calculate the total TSP level.

** The concerned ASR represents planned future ASR within the planned "Yau Mei Site" Project, which is not considered when calculating the cumulative impact.

N/A The concerned planned ASRs are not relevant in this cumulative impact assessment.

Annex 3-2A Summary Table of Cumulative Daily Average RSP Level (Mitigated Scenario)

ASR	X	Y	Z	Height above ground	Due to this Project Only (extracted from Appendix 3-7 of this EIA report)				Due to Cumulative Construction with planned "Yau Mei Site" and "REC Site" Projects			
					1st Highest Daily RSP (With Bkg. Level) *		10th Highest Daily RSP (With Bkg. Level) *		1st Highest Daily RSP (With Bkg. Level) *		10th Highest Daily RSP (With Bkg. Level) *	
					With Bkg. Level	Without Bkg. Level	With Bkg. Level	Without Bkg. Level	With Bkg. Level	Without Bkg. Level	With Bkg. Level	Without Bkg. Level
A01	823101.12	837242.4	4.4	1.5	122	1	78	1	122	14	85	3
A01A	823124.28	837181.3	4.4	1.5	122	2	78	1	122	2	85	1
A02	823092.84	837314	4.4	1.5	122	1	78	1	122	2	85	1
A02A	823119.86	837359.1	4.4	1.5	122	1	78	1	122	1	85	1
A03	823260.81	837373.7	4.4	1.5	122	2	79	1	122	2	85	1
A04	823276.81	837456.1	4.3	1.5	122	2	78	1	122	2	85	1
A05	823287.12	837673.9	4.2	1.5	122	0	78	0	122	2	85	1
A05A	823269.63	837644.5	4.2	1.5	122	1	78	0	122	2	85	1
A05B	823308.73	837726.2	4.2	1.5	122	0	78	0	122	2	85	1
A06	823405	837870	4.2	1.5	122	0	78	0	122	4	85	3
A06A	823365.92	837883.6	4.2	1.5	122	0	78	0	122	4	85	2
A07	823788.62	837882.5	3.1	1.5	122	0	78	0	125	6	85	3
A08	823679.12	837571.7	2.3	1.5	122	1	78	0	122	1	85	1
A09	823717.31	837567	3.5	1.5	122	1	78	0	122	1	85	1
A10	823227.62	837343.9	4.4	1.5	122	2	78	1	122	2	85	1
A10A	823188.8	837327.3	4.4	1.5	122	1	78	1	122	2	85	1
A11	823382.12	837043.2	4.5	1.5	122	9	79	1	122	9	85	1
A12	823509.19	837017.6	6.5	1.5	122	2	78	0	122	2	85	0
A13	823171.38	837105	4.6	1.5	122	2	78	1	122	3	85	1
A14	823175.5	837030.5	4.4	1.5	122	1	78	1	122	2	85	1
A15	823271.81	836947.2	4.1	1.5	122	3	79	1	122	3	85	1
A16	823496	837908.2	4.2	1.5	122	0	78	0	122	9	85	6
A16A	823470.21	837871.6	4.2	1.5	122	1	78	0	122	10	85	6
A17	823500.62	838152.4	5.7	1.5	122	0	78	0	122	3	85	2
A18	823725.62	838015.9	3.5	1.5	122	0	78	0	124	4	85	2
A19	823749.5	837459.6	3.3	1.5	122	1	78	0	122	1	85	0
A20	823745.38	837355.3	4.2	1.5	122	1	78	0	122	1	85	0
A21	823713.88	837274	4.2	1.5	122	1	78	1	122	1	85	1
A22	823645.12	837066.1	3.5	1.5	122	1	78	0	122	1	85	0
A23	823920.62	837886.7	3.6	1.5	122	0	78	0	123	2	85	1
A24	823927.69	837923.6	3.5	1.5	122	0	78	0	123	1	85	1
A25	823756	838085.2	4.9	1.5	122	0	78	0	123	2	85	1
A26	823040.62	838098.6	4.4	1.5	122	0	78	0	122	1	85	0
A27	823465.59	837089.9	4.5	1.5	122	11	80	2	122	11	85	2
A28	823286.57	837864.2	4.3	1.5	122	0	78	0	122	2	85	1
A29	823279.17	837826.6	4.3	1.5	122	0	78	0	122	3	85	1
A30	823293.2	837534.5	4.5	1.5	122	1	78	0	122	1	85	1
A31	823393.53	837959.7	3.9	1.5	122	0	78	0	122	7	85	3
A32	823353.02	837069.1	4.5	1.5	122	6	79	2	122	6	85	2
A33	823439.27	837932.1	3.9	1.5	122	0	78	0	122	9	85	4
A34	823424.53	838140.2	5.2	1.5	122	0	78	0	122	2	85	1
A35	823581.4	838166.3	5	1.5	122	0	78	0	122	4	85	2
A36	823703.1	837968.5	3.5	1.5	122	0	78	0	125	6	85	4
A1Pa	823687.9	837719	3	1.5	122	0	78	0	122	4	86	2
A2Pa	823545.2	837421.1	3	1.5	124	4	78	2	124	4	85	2
A3Pa	823454.7	837785.1	4	1.5	122	1	78	0	N/A	N/A	N/A	N/A
A4Pa	823304.9	837427.1	4	1.5	122	5	78	1	N/A	N/A	N/A	N/A
A5Pa	823602.1	837795.8	4	1.5	122	1	78	0	N/A	N/A	N/A	N/A
V01	823571.7	837355.7	3	1.5	124	4	79	2	124	4	85	2
V02	823780.1	837738.5	2.4	1.5	122	0	78	0	122	2	85	1
V03	823524.7	837232	3	1.5	122	6	78	3	122	6	85	3
V04	823384.5	837124.2	4.8	1.5	122	10	79	4	122	10	85	4
A01	823101.12	837242.4	4.4	4.5	122	1	78	1	122	3	85	1
A01A	823124.28	837181.3	4.4	4.5	122	2	78	1	122	2	85	1
A02	823092.84	837314	4.4	4.5	122	1	78	0	122	1	85	1
A02A	823119.86	837359.1	4.4	4.5	122	1	78	0	122	1	85	1
A03	823260.81	837373.7	4.4	4.5	122	1	78	1	122	2	85	1
A04	823276.81	837456.1	4.3	4.5	122	2	78	1	122	2	85	1
A05	823287.12	837673.9	4.2	4.5	122	0	78	0	122	2	85	1
A05A	823269.63	837644.5	4.2	4.5	122	1	78	0	122	1	85	1
A05B	823308.73	837726.2	4.2	4.5	122	0	78	0	122	2	85	1
A06	823405	837870	4.2	4.5	122	0	78	0	122	3	85	2
A06A	823365.92	837883.6	4.2	4.5	122	0	78	0	122	3	85	2
A07	823788.62	837882.5	3.1	4.5	122	0	78	0	124	5	85	2
A08	823679.12	837571.7	2.3	4.5	122	1	78	0	122	1	85	1
A09	823717.31	837567	3.5	4.5	122	1	78	0	122	1	85	0
A10	823227.62	837343.9	4.4	4.5	122	2	78	1	122	2	85	1
A10A	823188.8	837327.3	4.4	4.5	122	1	78	1	122	1	85	1
A11	823382.12	837043.2	4.5	4.5	122	7	79	1	122	7	85	1
A12	823509.19	837017.6	6.5	4.5	122	2	78	0	122	2	85	0
A13	823171.38	837105	4.6	4.5	122	1	78	1	122	2	85	1
A14	823175.5	837030.5	4.4	4.5	122	1	78	1	122	1	85	1
A15	823271.81	836947.2	4.1	4.5	122	2	79	1	122	2	85	1
A16	823496	837908.2	4.2	4.5	122	0	78	0	122	6	85	3
A16A	823470.21	837871.6	4.2	4.5	122	1	78	0	122	5	85	3
A17	823500.62	838152.4	5.7	4.5	122	0	78	0	122	3	85	1
A18	823725.62	838015.9	3.5	4.5	122	0	78	0	123	3	85	2
A19	823749.5	837459.6	3.3	4.5	122	1	78	0	122	1	85	0
A20	823745.38	837355.3	4.2	4.5	122	1	78	0	122	1	85	0
A21	823713.88	837274	4.2	4.5	122	1	78	1	122	1	85	1
A22	823645.12	837066.1	3.5	4.5	122	1	78	0	122	1	85	0
A23	823920.62	837886.7	3.6	4.5	122	0	78	0	123	2	85	1
A24	823927.69	837923.6	3.5	4.5	122	0	78	0	123	1	85	1
A25	823756	838085.2	4.9	4.5	122	0	78	0	123	2	85	1
A26	823040.62	838098.6	4.4	4.5	122	0	78	0	122	1	85	0
A27	823465.59	837089.9	4.5	4.5	122	5	79	1	122	5	85	1
A28	823286.57	837864.2	4.3	4.5	122	0	78	0	122	2	85	1
A29	823279.17	837826.6	4.3	4.5	122	0	78	0	122	2	85	1
A30	823293.2	837534.5	4.5	4.5	122	1	78	0	122	1	85	1
A31	823393.53	837959.7	3.9	4.5	122	0	78	0	122	4	85	2
A32	823353.02	837069.1	4.5	4.5	122	5	79	1	122	5	85	1
A33	823439.27	837932.1	3.9	4.5	122	0	78	0	122	5	85	3
A34	823424.53	838140.2	5.2	4.5	122	0	78	0	122	2	85	1
A35	823581.4	838166.3	5	4.5	122	0	78	0	122	3	85	2
A36	823703.1	837968.5	3.5	4.5	122	0	78	0	124	4	85	3
A1Pa	823687.9	837719	3	4.5	122	0	78	0	122	3	85	1
A2Pa	823545.2	837421.1	3	4.5	123	3	78	1	123	3	85	1
A3Pa	823454.7	837785.1	4	4.5	122	1	78	0	N/A	N/A	N/A	N/A
A4Pa	823304.9	837427.1	4	4.5	122	3	78	1	N/A	N/A	N/A	N/A
A5Pa	823602.1	837795.8	4	4.5	122	1	78	0	N/A	N/A	N/A	N/A
V01	823571.7	837355.7	3	4.5	123	2	78	1	123	2	85	1
V02	823780.1	837738.5	2.4	4.5	122	0	78	0	122	2	85	1
V03	823524.7	837232	3	4.5	122	3	78	2	122	3	85	2
V04	823384.5	837124.2	4.8	4.5	122	5	79	2	122	5	85	2
A01	823101.12	837242.4	4.4	7.5	122	1	78	0	122	1	85	1
A01A	823124.28	837181.3	4.4	7.5	122	1	78	1	122	2	85	1
A02	823092.84	837314	4.4	7.5	122	1	78	0	122	1	85	1
A02A	823119.86	837359.1	4.4	7.5	122	1	78	0	122	1	85	1

ASR	X	Y	Z	Height above ground	1st Highest Daily RSP (With Bkg. Level) *		10th Highest Daily RSP (With Bkg. Level) *		1st Highest Daily RSP (With Bkg. Level) *		10th Highest Daily RSP (With Bkg. Level) *	
					With Bkg. Level	Without Bkg. Level	With Bkg. Level	Without Bkg. Level	With Bkg. Level	Without Bkg. Level	With Bkg. Level	Without Bkg. Level
A04	823276.81	837456.1	4.3	7.5	122	1	78	0	122	1	85	1
A05	823287.12	837673.9	4.2	7.5	122	0	78	0	122	1	85	1
A05A	823269.63	837644.5	4.2	7.5	122	0	78	0	122	1	85	1
A05B	823308.73	837726.2	4.2	7.5	122	0	78	0	122	1	85	1
A06	823405	837870	4.2	7.5	122	0	78	0	122	3	85	2
A06A	823365.92	837883.6	4.2	7.5	122	0	78	0	122	2	85	1
A07	823788.62	837882.5	3.1	7.5	122	0	78	0	124	3	85	2
A08	823679.12	837571.7	2.3	7.5	122	1	78	0	122	1	85	1
A09	823717.31	837567	3.5	7.5	122	1	78	0	122	1	85	0
A10	823227.62	837343.9	4.4	7.5	122	1	78	1	122	1	85	1
A10A	823188.8	837327.3	4.4	7.5	122	1	78	1	122	1	85	1
A11	823382.12	837043.2	4.5	7.5	122	4	79	1	122	4	85	1
A12	823509.19	837017.6	6.5	7.5	122	1	78	0	122	1	85	0
A13	823171.38	837105	4.6	7.5	122	1	78	1	122	2	85	1
A14	823175.5	837030.5	4.4	7.5	122	1	78	1	122	1	85	1
A15	823271.81	836947.2	4.1	7.5	122	2	79	1	122	2	85	1
A16	823496	837908.2	4.2	7.5	122	0	78	0	122	3	85	2
A16A	823470.21	837871.6	4.2	7.5	122	0	78	0	122	3	85	2
A17	823500.62	838152.4	5.7	7.5	122	0	78	0	122	2	85	1
A18	823725.62	838015.9	3.5	7.5	122	0	78	0	123	2	85	2
A19	823749.5	837459.6	3.3	7.5	122	1	78	0	122	1	85	0
A20	823745.38	837355.3	4.2	7.5	122	1	78	0	122	1	85	0
A21	823713.88	837274	4.2	7.5	122	1	78	0	122	1	85	1
A22	823645.12	837066.1	3.5	7.5	122	1	78	0	122	1	85	0
A23	823920.62	837886.7	3.6	7.5	122	0	78	0	123	2	85	1
A24	823927.69	837923.6	3.5	7.5	122	0	78	0	123	1	85	1
A25	823756	838085.2	4.9	7.5	122	0	78	0	123	2	85	1
A26	823040.62	838098.6	4.4	7.5	122	0	78	0	122	1	85	0
A27	823465.59	837089.9	4.5	7.5	122	3	78	0	122	3	85	1
A28	823286.57	837864.2	4.3	7.5	122	0	78	0	122	2	85	1
A29	823279.17	837826.6	4.3	7.5	122	0	78	0	122	2	85	1
A30	823293.2	837534.5	4.5	7.5	122	1	78	0	122	1	85	1
A31	823393.53	837959.7	3.9	7.5	122	0	78	0	122	3	85	2
A32	823353.02	837069.1	4.5	7.5	122	3	79	1	122	3	85	1
A33	823439.27	837932.1	3.9	7.5	122	0	78	0	122	4	85	2
A34	823424.53	838140.2	5.2	7.5	122	0	78	0	122	1	85	1
A35	823581.4	838166.3	5	7.5	122	0	78	0	122	3	85	2
A36	823703.1	837968.5	3.5	7.5	122	0	78	0	123	3	85	2
A1Pa	823687.9	837719	3	7.5	122	0	78	0	122	2	85	1
A2Pa	823545.2	837421.1	3	7.5	123	2	78	1	123	2	85	1
A3Pa	823454.7	837785.1	4	7.5	122	0	78	0	N/A	N/A	N/A	N/A
A4Pa	823304.9	837427.1	4	7.5	122	2	78	1	N/A	N/A	N/A	N/A
A5Pa	823602.1	837795.8	4	7.5	122	1	78	0	N/A	N/A	N/A	N/A
V01	823571.7	837355.7	3	7.5	123	1	78	1	123	1	85	1
V02	823780.1	837738.5	2.4	7.5	122	0	78	0	122	1	85	1
V03	823524.7	837232	3	7.5	122	2	78	1	122	2	85	1
V04	823384.5	837124.2	4.8	7.5	122	2	79	1	122	2	85	1
Max. RSP Level, ug/m³					124	11	80	4	125	14	86	6
Relevant AQO Criteria, ug/m³					100	100	100	100	100	100	100	100
Compliance with AQO?					-	-	Yes	Yes	-	-	Yes	Yes

Remark: * The above results have included the background level extracted from the PATH Output (year 2015). The hour-by-hour background contribution is estimated using output of PATH model, and added hour-by-hour to the Project contribution in order to calculate the daily average total RSP levels.

N/A The concerned ASRs are not relevant in this cumulative impact assessment.

Annex 3-3A Summary Table of Cumulative Daily Average FSP Level (Mitigated Scenario)

ASR	X	Y	Z	Height above ground	Due to <u>this Project Only</u> (extracted from Appendix 3-7 of this EIA report)				Due to <u>Cumulative Construction</u> with planned "Yau Mei Site" and "REC Site" Projects			
					1st Highest Daily FSP (With Bkg. Level) * & **		10th Highest Daily FSP (With Bkg. Level) * & **		1st Highest Daily FSP (With Bkg. Level) * & **		10th Highest Daily FSP (With Bkg. Level) * & **	
					With Bkg. Level	Without Bkg. Level	With Bkg. Level	Without Bkg. Level	With Bkg. Level	Without Bkg. Level	With Bkg. Level	Without Bkg. Level
A01	823101.12	837242.4	4.4	1.5	91	0	59	0	91	4	64	1
A01A	823124.28	837181.3	4.4	1.5	91	1	59	0	91	1	64	0
A02	823092.84	837314	4.4	1.5	91	0	59	0	91	1	64	0
A02A	823119.86	837359.1	4.4	1.5	91	0	59	0	91	0	64	0
A03	823260.81	837373.7	4.4	1.5	91	1	59	0	91	1	64	0
A04	823276.81	837456.1	4.3	1.5	91	1	59	0	91	1	64	0
A05	823287.12	837673.9	4.2	1.5	91	0	59	0	91	1	64	0
A05A	823269.63	837644.5	4.2	1.5	91	0	59	0	91	0	64	0
A05B	823308.73	837726.2	4.2	1.5	91	0	59	0	91	1	64	0
A06	823405	837870	4.2	1.5	91	0	59	0	91	1	64	1
A06A	823365.92	837883.6	4.2	1.5	91	0	59	0	91	1	64	1
A07	823788.62	837882.5	3.1	1.5	91	0	59	0	92	2	64	1
A08	823679.12	837571.7	2.3	1.5	91	0	59	0	91	0	64	0
A09	823717.31	837567	3.5	1.5	91	0	59	0	91	0	64	0
A10	823227.62	837343.9	4.4	1.5	91	1	59	0	91	1	64	0
A10A	823188.8	837327.3	4.4	1.5	91	0	59	0	91	1	64	0
A11	823382.12	837043.2	4.5	1.5	91	3	59	0	91	3	64	0
A12	823509.19	837017.6	6.5	1.5	91	1	59	0	91	1	64	0
A13	823171.38	837105	4.6	1.5	91	0	59	0	91	1	64	0
A14	823175.5	837030.5	4.4	1.5	91	0	59	0	91	0	64	0
A15	823271.81	836947.2	4.1	1.5	91	1	59	0	91	1	64	0
A16	823496	837908.2	4.2	1.5	91	0	59	0	92	3	64	2
A16A	823470.21	837871.6	4.2	1.5	91	0	59	0	91	3	64	2
A17	823500.62	838152.4	5.7	1.5	91	0	59	0	91	1	64	1
A18	823725.62	838015.9	3.5	1.5	91	0	59	0	92	1	64	1
A19	823749.5	837459.6	3.3	1.5	91	0	59	0	91	0	64	0
A20	823745.38	837355.3	4.2	1.5	92	0	59	0	92	0	64	0
A21	823713.88	837274	4.2	1.5	91	0	59	0	91	0	64	0
A22	823645.12	837066.1	3.5	1.5	91	0	59	0	91	0	64	0
A23	823920.62	837886.7	3.6	1.5	91	0	59	0	92	1	64	0
A24	823927.69	837923.6	3.5	1.5	91	0	59	0	92	0	64	0
A25	823756	838085.2	4.9	1.5	91	0	59	0	92	1	64	0
A26	823040.62	838098.6	4.4	1.5	91	0	59	0	91	0	64	0
A27	823465.59	837089.9	4.5	1.5	91	3	59	0	91	3	64	0
A28	823286.57	837864.2	4.3	1.5	91	0	59	0	91	1	64	0
A29	823279.17	837826.6	4.3	1.5	91	0	59	0	91	1	64	0
A30	823293.2	837534.5	4.5	1.5	91	0	59	0	91	0	64	0
A31	823393.53	837959.7	3.9	1.5	91	0	59	0	91	2	64	1
A32	823353.02	837069.1	4.5	1.5	91	2	59	0	91	2	64	0
A33	823439.27	837932.1	3.9	1.5	91	0	59	0	91	3	64	1
A34	823424.53	838140.2	5.2	1.5	91	0	59	0	91	1	64	0
A35	823581.4	838166.3	5	1.5	91	0	59	0	91	1	64	1
A36	823703.1	837968.5	3.5	1.5	91	0	59	0	92	2	64	1
A1Pa	823687.9	837719	3	1.5	91	0	59	0	91	1	64	0
A2Pa	823545.2	837421.1	3	1.5	92	1	59	1	92	1	64	1
A3Pa	823454.7	837785.1	4	1.5	91	0	59	0	N/A	N/A	N/A	N/A
A4Pa	823304.9	837427.1	4	1.5	91	1	59	0	N/A	N/A	N/A	N/A
A5Pa	823602.1	837795.8	4	1.5	91	0	59	0	N/A	N/A	N/A	N/A
V01	823571.7	837355.7	3	1.5	92	1	59	1	92	1	64	1
V02	823780.1	837738.5	2.4	1.5	91	0	59	0	91	1	64	0
V03	823524.7	837232	3	1.5	91	2	59	1	91	2	64	1
V04	823384.5	837124.2	4.8	1.5	91	3	59	1	91	3	64	1
A01	823101.12	837242.4	4.4	4.5	91	0	59	0	91	1	64	0
A01A	823124.28	837181.3	4.4	4.5	91	0	59	0	91	1	64	0
A02	823092.84	837314	4.4	4.5	91	0	59	0	91	0	64	0
A02A	823119.86	837359.1	4.4	4.5	91	0	59	0	91	0	64	0
A03	823260.81	837373.7	4.4	4.5	91	0	59	0	91	0	64	0
A04	823276.81	837456.1	4.3	4.5	91	1	59	0	91	1	64	0
A05	823287.12	837673.9	4.2	4.5	91	0	59	0	91	0	64	0
A05A	823269.63	837644.5	4.2	4.5	91	0	59	0	91	0	64	0
A05B	823308.73	837726.2	4.2	4.5	91	0	59	0	91	1	64	0
A06	823405	837870	4.2	4.5	91	0	59	0	91	1	64	1
A06A	823365.92	837883.6	4.2	4.5	91	0	59	0	91	1	64	1
A07	823788.62	837882.5	3.1	4.5	91	0	59	0	92	1	64	1
A08	823679.12	837571.7	2.3	4.5	91	0	59	0	91	0	64	0
A09	823717.31	837567	3.5	4.5	91	0	59	0	91	0	64	0
A10	823227.62	837343.9	4.4	4.5	91	1	59	0	91	1	64	0
A10A	823188.8	837327.3	4.4	4.5	91	0	59	0	91	0	64	0
A11	823382.12	837043.2	4.5	4.5	91	2	59	0	91	2	64	0
A12	823509.19	837017.6	6.5	4.5	91	0	59	0	91	1	64	0
A13	823171.38	837105	4.6	4.5	91	0	59	0	91	1	64	0
A14	823175.5	837030.5	4.4	4.5	91	0	59	0	91	0	64	0
A15	823271.81	836947.2	4.1	4.5	91	1	59	0	91	1	64	0
A16	823496	837908.2	4.2	4.5	91	0	59	0	91	2	64	1
A16A	823470.21	837871.6	4.2	4.5	91	0	59	0	91	2	64	1
A17	823500.62	838152.4	5.7	4.5	91	0	59	0	91	1	64	0
A18	823725.62	838015.9	3.5	4.5	91	0	59	0	92	1	64	1
A19	823749.5	837459.6	3.3	4.5	91	0	59	0	91	0	64	0
A20	823745.38	837355.3	4.2	4.5	92	0	59	0	92	0	64	0
A21	823713.88	837274	4.2	4.5	91	0	59	0	91	0	64	0
A22	823645.12	837066.1	3.5	4.5	91	0	59	0	91	0	64	0
A23	823920.62	837886.7	3.6	4.5	91	0	59	0	92	1	64	0
A24	823927.69	837923.6	3.5	4.5	91	0	59	0	92	0	64	0
A25	823756	838085.2	4.9	4.5	91	0	59	0	92	1	64	0
A26	823040.62	838098.6	4.4	4.5	91	0	59	0	91	0	64	0
A27	823465.59	837089.9	4.5	4.5	91	2	59	0	91	2	64	0
A28	823286.57	837864.2	4.3	4.5	91	0	59	0	91	0	64	0
A29	823279.17	837826.6	4.3	4.5	91	0	59	0	91	1	64	0
A30	823293.2	837534.5	4.5	4.5	91	0	59	0	91	0	64	0
A31	823393.53	837959.7	3.9	4.5	91	0	59	0	91	1	64	1
A32	823353.02	837069.1	4.5	4.5	91	1	59	0	91	1	64	0
A33	823439.27	837932.1	3.9	4.5	91	0	59	0	91	1	64	1
A34	823424.53	838140.2	5.2	4.5	91	0	59	0	91	1	64	0
A35	823581.4	838166.3	5	4.5	91	0	59	0	91	1	64	1
A36	823703.1	837968.5	3.5	4.5	91	0	59	0	92	1	64	1
A1Pa	823687.9	837719	3	4.5	91	0	59	0	91	1	64	0
A2Pa	823545.2	837421.1	3	4.5	92	1	59	0	92	1	64	0
A3Pa	823454.7	837785.1	4	4.5	91	0	59	0	N/A	N/A	N/A	N/A
A4Pa	823304.9	837427.1	4	4.5	91	1	59	0	N/A	N/A	N/A	N/A
A5Pa	823602.1	837795.8	4	4.5	91	0	59	0	N/A	N/A	N/A	N/A
V01	823571.7	837355.7	3	4.5	92	1	59	0	92	1	64	0
V02	823780.1	837738.5	2.4	4.5	91	0	59	0	91	1	64	0
V03	823524.7	837232	3	4.5	91	1	59	0	91	1	64	1
V04	823384.5	837124.2	4.8	4.5	91	1	59	1	91	1	64	1
A01	823101.12	837242.4	4.4	7.5	91	0	59	0	91	0	64	0
A01A	823124.28	837181.3	4.4	7.5	91	0	59	0	91	0	64	0
A02	823092.84	837314	4.4	7.5	91	0	59	0	91	0	64	0
A02A	823119.86	837359.1	4.4	7.5	91	0	59	0	91	0	64	0
A03	823260.81	837373.7	4.4	7.5	91	0	59	0	91	0	64	0
A04	823276.81	837456.1	4.3	7.5	91	0	59	0	91	0	64	0
A05	823287.12	837673.9	4.2	7.5	91	0	59	0	91	0	64	0

ASR	X	Y	Z	Height above ground	1st Highest Daily FSP (With Bkg. Level) * & **		10th Highest Daily FSP (With Bkg. Level) * & **		1st Highest Daily FSP (With Bkg. Level) * & **		10th Highest Daily FSP (With Bkg. Level) * & **	
					With Bkg. Level	Without Bkg. Level	With Bkg. Level	Without Bkg. Level	With Bkg. Level	Without Bkg. Level	With Bkg. Level	Without Bkg. Level
A05A	823269.63	837644.5	4.2	7.5	91	0	59	0	91	0	64	0
A05B	823308.73	837726.2	4.2	7.5	91	0	59	0	91	0	64	0
A06	823405	837870	4.2	7.5	91	0	59	0	91	1	64	1
A06A	823365.92	837883.6	4.2	7.5	91	0	59	0	91	1	64	0
A07	823788.62	837882.5	3.1	7.5	91	0	59	0	92	1	64	1
A08	823679.12	837571.7	2.3	7.5	91	0	59	0	91	0	64	0
A09	823717.31	837567	3.5	7.5	91	0	59	0	91	0	64	0
A10	823227.62	837343.9	4.4	7.5	91	0	59	0	91	0	64	0
A10A	823188.8	837327.3	4.4	7.5	91	0	59	0	91	0	64	0
A11	823382.12	837043.2	4.5	7.5	91	1	59	0	91	1	64	0
A12	823509.19	837017.6	6.5	7.5	91	0	59	0	91	0	64	0
A13	823171.38	837105	4.6	7.5	91	0	59	0	91	1	64	0
A14	823175.5	837030.5	4.4	7.5	91	0	59	0	91	0	64	0
A15	823271.81	836947.2	4.1	7.5	91	1	59	0	91	1	64	0
A16	823496	837908.2	4.2	7.5	91	0	59	0	91	1	64	1
A16A	823470.21	837871.6	4.2	7.5	91	0	59	0	91	1	64	1
A17	823500.62	838152.4	5.7	7.5	91	0	59	0	91	1	64	0
A18	823725.62	838015.9	3.5	7.5	91	0	59	0	92	1	64	1
A19	823749.5	837459.6	3.3	7.5	91	0	59	0	91	0	64	0
A20	823745.38	837355.3	4.2	7.5	91	0	59	0	91	0	64	0
A21	823713.88	837274	4.2	7.5	91	0	59	0	91	0	64	0
A22	823645.12	837066.1	3.5	7.5	91	0	59	0	91	0	64	0
A23	823920.62	837886.7	3.6	7.5	91	0	59	0	92	0	64	0
A24	823927.69	837923.6	3.5	7.5	91	0	59	0	92	0	64	0
A25	823756	838085.2	4.9	7.5	91	0	59	0	92	0	64	0
A26	823040.62	838098.6	4.4	7.5	91	0	59	0	91	0	64	0
A27	823465.59	837089.9	4.5	7.5	91	1	59	0	91	1	64	0
A28	823286.57	837864.2	4.3	7.5	91	0	59	0	91	0	64	0
A29	823279.17	837826.6	4.3	7.5	91	0	59	0	91	1	64	0
A30	823293.2	837534.5	4.5	7.5	91	0	59	0	91	0	64	0
A31	823393.53	837959.7	3.9	7.5	91	0	59	0	91	1	64	0
A32	823353.02	837069.1	4.5	7.5	91	1	59	0	91	1	64	0
A33	823439.27	837932.1	3.9	7.5	91	0	59	0	91	1	64	0
A34	823424.53	838140.2	5.2	7.5	91	0	59	0	91	0	64	0
A35	823581.4	838166.3	5	7.5	91	0	59	0	91	1	64	0
A36	823703.1	837968.5	3.5	7.5	91	0	59	0	92	1	64	1
A1Pa	823687.9	837719	3	7.5	91	0	59	0	91	1	64	0
A2Pa	823545.2	837421.1	3	7.5	92	1	59	0	92	1	64	0
A3Pa	823454.7	837785.1	4	7.5	91	0	59	0	N/A	N/A	N/A	N/A
A4Pa	823304.9	837427.1	4	7.5	91	1	59	0	N/A	N/A	N/A	N/A
A5Pa	823602.1	837795.8	4	7.5	91	0	59	0	N/A	N/A	N/A	N/A
V01	823571.7	837355.7	3	7.5	92	0	59	0	92	0	64	0
V02	823780.1	837738.5	2.4	7.5	91	0	59	0	91	0	64	0
V03	823524.7	837232	3	7.5	91	1	59	0	91	1	64	0
V04	823384.5	837124.2	4.8	7.5	91	1	59	0	91	1	64	0
Max. FSP Level, ug/m3					92	3	59	1	92	4	64	2
Relevant AQO Criteria, ug/m3					75	75	75	75	75	75	75	75
Compliance with AQO?					-	-	Yes	Yes	-	-	Yes	Yes

Remark: * The above results have included the background level extracted from the PATH Output (year 2015). The hour-by-hour background contribution is estimated using output of PATH model, and added hour-by-hour to the Project contribution in order to calculate the daily average total RSP levels.

** The FSP concentrations are calculated based on the predicted RSP concentrations by applying a FSP/RSP ratio of 0.3 according to the USEPA AP-42 reference document. Please refer to Appendix 3-10 for the justification of FSP/RSP ratio.

N/A The concerned ASRs are not relevant in this cumulative impact assessment.

Annex 3-4A Summary Table of Cumulative Maximum Annual Average RSP Level (Mitigated Scenario)

ASR	X	Y	Z	Height above ground	Due to this Project Only (extracted from Appendix 3-7 of this EIA report)		Due to Cumulative Construction with planned "Yau Mei Site" and "REC Site" Projects	
					Annual Average RSP (With Bkg. Level) *		Annual Average RSP (With Bkg. Level) *	
					With Bkg. Level	Without Bkg. Level	With Bkg. Level	Without Bkg. Level
A01	823101	837242	4.4	1.5	43.3	0.1	43.6	0.4
A01A	823124	837181	4.4	1.5	43.4	0.1	43.4	0.2
A02	823093	837314	4.4	1.5	43.3	0.1	43.4	0.1
A02A	823120	837359	4.4	1.5	43.3	0.1	43.4	0.1
A03	823261	837374	4.4	1.5	43.4	0.1	43.5	0.2
A04	823277	837456	4.3	1.5	43.3	0.1	43.4	0.2
A05	823287	837674	4.2	1.5	43.3	0.0	43.4	0.2
A05A	823270	837645	4.2	1.5	43.3	0.0	43.4	0.2
A05B	823309	837726	4.2	1.5	43.3	0.0	43.5	0.2
A06	823405	837870	4.2	1.5	43.3	0.0	43.8	0.5
A06A	823366	837884	4.2	1.5	43.3	0.0	43.6	0.4
A07	823789	837883	3.1	1.5	43.3	0.0	43.7	0.4
A08	823679	837572	2.3	1.5	43.3	0.0	43.3	0.1
A09	823717	837567	3.5	1.5	43.3	0.0	43.3	0.1
A10	823228	837344	4.4	1.5	43.4	0.1	43.4	0.2
A10A	823189	837327	4.4	1.5	43.3	0.1	43.4	0.2
A11	823382	837043	4.5	1.5	43.4	0.2	43.4	0.2
A12	823509	837018	6.5	1.5	43.3	0.0	43.3	0.0
A13	823171	837105	4.6	1.5	43.4	0.1	43.4	0.2
A14	823176	837031	4.4	1.5	43.3	0.1	43.4	0.1
A15	823272	836947	4.1	1.5	43.3	0.1	43.3	0.1
A16	823496	837908	4.2	1.5	43.3	0.0	44.4	1.1
A16A	823470	837872	4.2	1.5	43.3	0.0	44.3	1.0
A17	823501	838152	5.7	1.5	43.3	0.0	43.5	0.2
A18	823726	838016	3.5	1.5	43.3	0.0	43.7	0.5
A19	823750	837460	3.3	1.5	43.3	0.0	43.3	0.1
A20	823745	837355	4.2	1.5	43.3	0.0	43.3	0.1
A21	823714	837274	4.2	1.5	43.3	0.1	43.3	0.1
A22	823645	837066	3.5	1.5	43.3	0.0	43.3	0.0
A23	823921	837887	3.6	1.5	43.3	0.0	43.4	0.1
A24	823928	837924	3.5	1.5	43.3	0.0	43.4	0.1
A25	823756	838085	4.9	1.5	43.3	0.0	43.5	0.3
A26	823041	838099	4.4	1.5	43.3	0.0	43.3	0.1
A27	823466	837090	4.5	1.5	43.4	0.2	43.4	0.2
A28	823287	837864	4.3	1.5	43.3	0.0	43.5	0.2
A29	823279	837827	4.3	1.5	43.3	0.0	43.5	0.2
A30	823293	837535	4.5	1.5	43.3	0.1	43.4	0.2
A31	823394	837960	3.9	1.5	43.3	0.0	43.7	0.4
A32	823353	837069	4.5	1.5	43.4	0.2	43.5	0.2
A33	823439	837932	3.9	1.5	43.3	0.0	43.9	0.7
A34	823425	838140	5.2	1.5	43.3	0.0	43.4	0.1
A35	823581	838166	5	1.5	43.3	0.0	43.6	0.3
A36	823703	837968	3.5	1.5	43.3	0.0	44.1	0.8
A1Pa	823688	837719	3	1.5	43.3	0.0	43.5	0.3
A2Pa	823545	837421	3	1.5	43.5	0.3	43.6	0.3
A3Pa	823455	837785	4	1.5	43.3	0.0	N/A	N/A
A4Pa	823305	837427	4	1.5	43.4	0.1	N/A	N/A
A5Pa	823602	837796	4	1.5	43.3	0.0	N/A	N/A
V01	823572	837356	3	1.5	43.5	0.3	43.5	0.3
V02	823780	837738	2.4	1.5	43.3	0.0	43.4	0.1
V03	823525	837232	3	1.5	43.5	0.3	43.6	0.3
V04	823385	837124	4.8	1.5	43.7	0.4	43.7	0.4
A01	823101	837242	4.4	4.5	43.3	0.1	43.4	0.2
A01A	823124	837181	4.4	4.5	43.3	0.1	43.4	0.2
A02	823093	837314	4.4	4.5	43.3	0.1	43.4	0.1
A02A	823120	837359	4.4	4.5	43.3	0.1	43.4	0.1
A03	823261	837374	4.4	4.5	43.4	0.1	43.4	0.2
A04	823277	837456	4.3	4.5	43.3	0.1	43.4	0.2
A05	823287	837674	4.2	4.5	43.3	0.0	43.4	0.2
A05A	823270	837645	4.2	4.5	43.3	0.0	43.4	0.2
A05B	823309	837726	4.2	4.5	43.3	0.0	43.5	0.2
A06	823405	837870	4.2	4.5	43.3	0.0	43.7	0.4
A06A	823366	837884	4.2	4.5	43.3	0.0	43.6	0.3
A07	823789	837883	3.1	4.5	43.3	0.0	43.6	0.3
A08	823679	837572	2.3	4.5	43.3	0.0	43.3	0.1
A09	823717	837567	3.5	4.5	43.3	0.0	43.3	0.1
A10	823228	837344	4.4	4.5	43.3	0.1	43.4	0.2
A10A	823189	837327	4.4	4.5	43.3	0.1	43.4	0.2
A11	823382	837043	4.5	4.5	43.4	0.1	43.4	0.1
A12	823509	837018	6.5	4.5	43.3	0.0	43.3	0.0
A13	823171	837105	4.6	4.5	43.4	0.1	43.4	0.2
A14	823176	837031	4.4	4.5	43.3	0.1	43.4	0.1
A15	823272	836947	4.1	4.5	43.3	0.1	43.3	0.1
A16	823496	837908	4.2	4.5	43.3	0.0	43.9	0.7
A16A	823470	837872	4.2	4.5	43.3	0.0	43.9	0.6
A17	823501	838152	5.7	4.5	43.3	0.0	43.4	0.2
A18	823726	838016	3.5	4.5	43.3	0.0	43.7	0.4
A19	823750	837460	3.3	4.5	43.3	0.0	43.3	0.1
A20	823745	837355	4.2	4.5	43.3	0.0	43.3	0.1
A21	823714	837274	4.2	4.5	43.3	0.1	43.3	0.1
A22	823645	837066	3.5	4.5	43.3	0.0	43.3	0.0
A23	823921	837887	3.6	4.5	43.3	0.0	43.4	0.1
A24	823928	837924	3.5	4.5	43.3	0.0	43.3	0.1
A25	823756	838085	4.9	4.5	43.3	0.0	43.5	0.3
A26	823041	838099	4.4	4.5	43.3	0.0	43.3	0.1
A27	823466	837090	4.5	4.5	43.3	0.1	43.3	0.1
A28	823287	837864	4.3	4.5	43.3	0.0	43.5	0.2
A29	823279	837827	4.3	4.5	43.3	0.0	43.5	0.2
A30	823293	837535	4.5	4.5	43.3	0.0	43.4	0.2
A31	823394	837960	3.9	4.5	43.3	0.0	43.6	0.3
A32	823353	837069	4.5	4.5	43.4	0.1	43.4	0.2
A33	823439	837932	3.9	4.5	43.3	0.0	43.7	0.5
A34	823425	838140	5.2	4.5	43.3	0.0	43.4	0.1
A35	823581	838166	5	4.5	43.3	0.0	43.5	0.3
A36	823703	837968	3.5	4.5	43.3	0.0	43.8	0.6
A1Pa	823688	837719	3	4.5	43.3	0.0	43.5	0.2
A2Pa	823545	837421	3	4.5	43.5	0.2	43.5	0.3
A3Pa	823455	837785	4	4.5	43.3	0.0	N/A	N/A
A4Pa	823305	837427	4	4.5	43.3	0.1	N/A	N/A
A5Pa	823602	837796	4	4.5	43.3	0.0	N/A	N/A
V01	823572	837356	3	4.5	43.4	0.2	43.5	0.2

ASR	X	Y	Z	Height above ground	Annual Average RSP (With Bkg. Level) *		Annual Average RSP (W/o Bkg.)	
					With Bkg. Level	Without Bkg. Level	With Bkg. Level	Without Bkg. Level
V02	823780	837738	2.4	4.5	43.3	0.0	43.4	0.1
V03	823525	837232	3	4.5	43.4	0.2	43.5	0.2
V04	823385	837124	4.8	4.5	43.4	0.2	43.5	0.2
A01	823101	837242	4.4	7.5	43.3	0.1	43.4	0.1
A01A	823124	837181	4.4	7.5	43.3	0.1	43.4	0.1
A02	823093	837314	4.4	7.5	43.3	0.1	43.4	0.1
A02A	823120	837359	4.4	7.5	43.3	0.0	43.4	0.1
A03	823261	837374	4.4	7.5	43.3	0.1	43.4	0.2
A04	823277	837456	4.3	7.5	43.3	0.0	43.4	0.1
A05	823287	837674	4.2	7.5	43.3	0.0	43.4	0.2
A05A	823270	837645	4.2	7.5	43.3	0.0	43.4	0.2
A05B	823309	837726	4.2	7.5	43.3	0.0	43.4	0.2
A06	823405	837870	4.2	7.5	43.3	0.0	43.5	0.3
A06A	823366	837884	4.2	7.5	43.3	0.0	43.5	0.2
A07	823789	837883	3.1	7.5	43.3	0.0	43.5	0.2
A08	823679	837572	2.3	7.5	43.3	0.0	43.3	0.1
A09	823717	837567	3.5	7.5	43.3	0.0	43.3	0.1
A10	823228	837344	4.4	7.5	43.3	0.1	43.4	0.1
A10A	823189	837327	4.4	7.5	43.3	0.1	43.4	0.1
A11	823382	837043	4.5	7.5	43.3	0.1	43.3	0.1
A12	823509	837018	6.5	7.5	43.3	0.0	43.3	0.0
A13	823171	837105	4.6	7.5	43.3	0.1	43.4	0.1
A14	823176	837031	4.4	7.5	43.3	0.1	43.4	0.1
A15	823272	836947	4.1	7.5	43.3	0.1	43.3	0.1
A16	823496	837908	4.2	7.5	43.3	0.0	43.6	0.4
A16A	823470	837872	4.2	7.5	43.3	0.0	43.6	0.4
A17	823501	838152	5.7	7.5	43.3	0.0	43.4	0.2
A18	823726	838016	3.5	7.5	43.3	0.0	43.6	0.3
A19	823750	837460	3.3	7.5	43.3	0.0	43.3	0.0
A20	823745	837355	4.2	7.5	43.3	0.0	43.3	0.0
A21	823714	837274	4.2	7.5	43.3	0.0	43.3	0.1
A22	823645	837066	3.5	7.5	43.3	0.0	43.3	0.0
A23	823921	837887	3.6	7.5	43.3	0.0	43.4	0.1
A24	823928	837924	3.5	7.5	43.3	0.0	43.3	0.1
A25	823756	838085	4.9	7.5	43.3	0.0	43.5	0.2
A26	823041	838099	4.4	7.5	43.3	0.0	43.3	0.1
A27	823466	837090	4.5	7.5	43.3	0.0	43.3	0.1
A28	823287	837864	4.3	7.5	43.3	0.0	43.4	0.2
A29	823279	837827	4.3	7.5	43.3	0.0	43.4	0.2
A30	823293	837535	4.5	7.5	43.3	0.0	43.4	0.2
A31	823394	837960	3.9	7.5	43.3	0.0	43.5	0.2
A32	823353	837069	4.5	7.5	43.3	0.1	43.4	0.1
A33	823439	837932	3.9	7.5	43.3	0.0	43.5	0.3
A34	823425	838140	5.2	7.5	43.3	0.0	43.3	0.1
A35	823581	838166	5	7.5	43.3	0.0	43.5	0.2
A36	823703	837968	3.5	7.5	43.3	0.0	43.6	0.4
A1Pa	823688	837719	3	7.5	43.3	0.0	43.4	0.2
A2Pa	823545	837421	3	7.5	43.4	0.2	43.5	0.2
A3Pa	823455	837785	4	7.5	43.3	0.0	N/A	N/A
A4Pa	823305	837427	4	7.5	43.3	0.1	N/A	N/A
A5Pa	823602	837796	4	7.5	43.3	0.0	N/A	N/A
V01	823572	837356	3	7.5	43.4	0.1	43.4	0.2
V02	823780	837738	2.4	7.5	43.3	0.0	43.3	0.1
V03	823525	837232	3	7.5	43.4	0.1	43.4	0.1
V04	823385	837124	4.8	7.5	43.4	0.1	43.4	0.1
Max. RSP Level, ug/m3					43.7	0.4	44.4	1.1
Relevant AQO Criteria, ug/m3					50	50	50	50
Compliance with AQO?					Yes	Yes	Yes	Yes

Remark: * The above results have included the background level extracted from the PATH Output (year 2015). The hour-by-hour background contribution is estimated using output of PATH model, and added hour-by-hour to the Project contribution in order to calculate the annual average total RSP levels.

N/A The concerned ASRs are not relevant in this cumulative impact assessment.

Annex 3-5A Summary Table of Cumulative Maximum Annual Average FSP Level (Mitigated Scenario)

ASR	X	Y	Z	Height above ground	Due to this Project Only (extracted from Appendix 3-7 of this EIA report)		Due to Cumulative Construction with planned "Yau Mei Site" and "REC Site" Projects	
					Annual Average FSP (With Bkg. Level) * & **	Annual Average FSP (W/o Bkg.) **	Annual Average FSP (With Bkg. Level) * & **	Annual Average FSP (W/o Bkg.) **
					With Bkg. Level	Without Bkg. Level	With Bkg. Level	Without Bkg. Level
A01	823101	837242	4.4	1.5	30.7	0.0	30.8	0.1
A01A	823124	837181	4.4	1.5	30.7	0.0	30.8	0.1
A02	823093	837314	4.4	1.5	30.7	0.0	30.7	0.0
A02A	823120	837359	4.4	1.5	30.7	0.0	30.7	0.0
A03	823261	837374	4.4	1.5	30.7	0.0	30.8	0.1
A04	823277	837456	4.3	1.5	30.7	0.0	30.8	0.1
A05	823287	837674	4.2	1.5	30.7	0.0	30.8	0.1
A05A	823270	837645	4.2	1.5	30.7	0.0	30.8	0.1
A05B	823309	837726	4.2	1.5	30.7	0.0	30.8	0.1
A06	823405	837870	4.2	1.5	30.7	0.0	30.9	0.2
A06A	823366	837884	4.2	1.5	30.7	0.0	30.8	0.1
A07	823789	837883	3.1	1.5	30.7	0.0	30.8	0.1
A08	823679	837572	2.3	1.5	30.7	0.0	30.7	0.0
A09	823717	837567	3.5	1.5	30.7	0.0	30.7	0.0
A10	823228	837344	4.4	1.5	30.7	0.0	30.8	0.1
A10A	823189	837327	4.4	1.5	30.7	0.0	30.8	0.1
A11	823382	837043	4.5	1.5	30.8	0.0	30.8	0.1
A12	823509	837018	6.5	1.5	30.7	0.0	30.7	0.0
A13	823171	837105	4.6	1.5	30.7	0.0	30.8	0.1
A14	823176	837031	4.4	1.5	30.7	0.0	30.7	0.0
A15	823272	836947	4.1	1.5	30.7	0.0	30.7	0.0
A16	823496	837908	4.2	1.5	30.7	0.0	31.0	0.3
A16A	823470	837872	4.2	1.5	30.7	0.0	31.0	0.3
A17	823501	838152	5.7	1.5	30.7	0.0	30.8	0.1
A18	823726	838016	3.5	1.5	30.7	0.0	30.9	0.1
A19	823750	837460	3.3	1.5	30.7	0.0	30.7	0.0
A20	823745	837355	4.2	1.5	30.7	0.0	30.7	0.0
A21	823714	837274	4.2	1.5	30.7	0.0	30.7	0.0
A22	823645	837066	3.5	1.5	30.7	0.0	30.7	0.0
A23	823921	837887	3.6	1.5	30.7	0.0	30.7	0.0
A24	823928	837924	3.5	1.5	30.7	0.0	30.7	0.0
A25	823756	838085	4.9	1.5	30.7	0.0	30.8	0.1
A26	823041	838099	4.4	1.5	30.7	0.0	30.7	0.0
A27	823466	837090	4.5	1.5	30.8	0.1	30.8	0.1
A28	823287	837864	4.3	1.5	30.7	0.0	30.8	0.1
A29	823279	837827	4.3	1.5	30.7	0.0	30.8	0.1
A30	823293	837535	4.5	1.5	30.7	0.0	30.8	0.1
A31	823394	837960	3.9	1.5	30.7	0.0	30.8	0.1
A32	823353	837069	4.5	1.5	30.8	0.1	30.8	0.1
A33	823439	837932	3.9	1.5	30.7	0.0	30.9	0.2
A34	823425	838140	5.2	1.5	30.7	0.0	30.7	0.0
A35	823581	838166	5	1.5	30.7	0.0	30.8	0.1
A36	823703	837968	3.5	1.5	30.7	0.0	30.9	0.2
A1Pa	823688	837719	3	1.5	30.7	0.0	30.8	0.1
A2Pa	823545	837421	3	1.5	30.8	0.1	30.8	0.1
A3Pa	823455	837785	4	1.5	30.7	0.0	N/A	N/A
A4Pa	823305	837427	4	1.5	30.7	0.0	N/A	N/A
A5Pa	823602	837796	4	1.5	30.7	0.0	N/A	N/A
V01	823572	837356	3	1.5	30.8	0.1	30.8	0.1
V02	823780	837738	2.4	1.5	30.7	0.0	30.7	0.0
V03	823525	837232	3	1.5	30.8	0.1	30.8	0.1
V04	823385	837124	4.8	1.5	30.8	0.1	30.8	0.1
A01	823101	837242	4.4	4.5	30.7	0.0	30.8	0.0
A01A	823124	837181	4.4	4.5	30.7	0.0	30.7	0.0
A02	823093	837314	4.4	4.5	30.7	0.0	30.7	0.0
A02A	823120	837359	4.4	4.5	30.7	0.0	30.7	0.0
A03	823261	837374	4.4	4.5	30.7	0.0	30.8	0.1
A04	823277	837456	4.3	4.5	30.7	0.0	30.8	0.1
A05	823287	837674	4.2	4.5	30.7	0.0	30.8	0.1
A05A	823270	837645	4.2	4.5	30.7	0.0	30.8	0.1
A05B	823309	837726	4.2	4.5	30.7	0.0	30.8	0.1
A06	823405	837870	4.2	4.5	30.7	0.0	30.8	0.1
A06A	823366	837884	4.2	4.5	30.7	0.0	30.8	0.1
A07	823789	837883	3.1	4.5	30.7	0.0	30.8	0.1
A08	823679	837572	2.3	4.5	30.7	0.0	30.7	0.0
A09	823717	837567	3.5	4.5	30.7	0.0	30.7	0.0
A10	823228	837344	4.4	4.5	30.7	0.0	30.8	0.1
A10A	823189	837327	4.4	4.5	30.7	0.0	30.8	0.0
A11	823382	837043	4.5	4.5	30.7	0.0	30.7	0.0
A12	823509	837018	6.5	4.5	30.7	0.0	30.7	0.0
A13	823171	837105	4.6	4.5	30.7	0.0	30.8	0.0
A14	823176	837031	4.4	4.5	30.7	0.0	30.7	0.0
A15	823272	836947	4.1	4.5	30.7	0.0	30.7	0.0
A16	823496	837908	4.2	4.5	30.7	0.0	30.9	0.2
A16A	823470	837872	4.2	4.5	30.7	0.0	30.9	0.2
A17	823501	838152	5.7	4.5	30.7	0.0	30.8	0.1
A18	823726	838016	3.5	4.5	30.7	0.0	30.8	0.1
A19	823750	837460	3.3	4.5	30.7	0.0	30.7	0.0
A20	823745	837355	4.2	4.5	30.7	0.0	30.7	0.0
A21	823714	837274	4.2	4.5	30.7	0.0	30.7	0.0
A22	823645	837066	3.5	4.5	30.7	0.0	30.7	0.0
A23	823921	837887	3.6	4.5	30.7	0.0	30.7	0.0
A24	823928	837924	3.5	4.5	30.7	0.0	30.7	0.0
A25	823756	838085	4.9	4.5	30.7	0.0	30.8	0.1
A26	823041	838099	4.4	4.5	30.7	0.0	30.7	0.0
A27	823466	837090	4.5	4.5	30.7	0.0	30.7	0.0
A28	823287	837864	4.3	4.5	30.7	0.0	30.8	0.1
A29	823279	837827	4.3	4.5	30.7	0.0	30.8	0.1
A30	823293	837535	4.5	4.5	30.7	0.0	30.8	0.1
A31	823394	837960	3.9	4.5	30.7	0.0	30.8	0.1
A32	823353	837069	4.5	4.5	30.7	0.0	30.8	0.0
A33	823439	837932	3.9	4.5	30.7	0.0	30.8	0.1
A34	823425	838140	5.2	4.5	30.7	0.0	30.7	0.0
A35	823581	838166	5	4.5	30.7	0.0	30.8	0.1
A36	823703	837968	3.5	4.5	30.7	0.0	30.9	0.2
A1Pa	823688	837719	3	4.5	30.7	0.0	30.8	0.1
A2Pa	823545	837421	3	4.5	30.8	0.1	30.8	0.1
A3Pa	823455	837785	4	4.5	30.7	0.0	N/A	N/A
A4Pa	823305	837427	4	4.5	30.7	0.0	N/A	N/A
A5Pa	823602	837796	4	4.5	30.7	0.0	N/A	N/A

ASR	X	Y	Z	Height above ground	Annual Average FSP (With Bkg. Level) * & **		Annual Average FSP (W/o Bkg.) **	
					With Bkg. Level	Without Bkg. Level	With Bkg. Level	Without Bkg. Level
V01	823572	837356	3	4.5	30.8	0.1	30.8	0.1
V02	823780	837738	2.4	4.5	30.7	0.0	30.7	0.0
V03	823525	837232	3	4.5	30.8	0.1	30.8	0.1
V04	823385	837124	4.8	4.5	30.8	0.1	30.8	0.1
A01	823101	837242	4.4	7.5	30.7	0.0	30.7	0.0
A01A	823124	837181	4.4	7.5	30.7	0.0	30.7	0.0
A02	823093	837314	4.4	7.5	30.7	0.0	30.7	0.0
A02A	823120	837359	4.4	7.5	30.7	0.0	30.7	0.0
A03	823261	837374	4.4	7.5	30.7	0.0	30.8	0.0
A04	823277	837456	4.3	7.5	30.7	0.0	30.7	0.0
A05	823287	837674	4.2	7.5	30.7	0.0	30.8	0.0
A05A	823270	837645	4.2	7.5	30.7	0.0	30.7	0.0
A05B	823309	837726	4.2	7.5	30.7	0.0	30.8	0.1
A06	823405	837870	4.2	7.5	30.7	0.0	30.8	0.1
A06A	823366	837884	4.2	7.5	30.7	0.0	30.8	0.1
A07	823789	837883	3.1	7.5	30.7	0.0	30.8	0.1
A08	823679	837572	2.3	7.5	30.7	0.0	30.7	0.0
A09	823717	837567	3.5	7.5	30.7	0.0	30.7	0.0
A10	823228	837344	4.4	7.5	30.7	0.0	30.7	0.0
A10A	823189	837327	4.4	7.5	30.7	0.0	30.7	0.0
A11	823382	837043	4.5	7.5	30.7	0.0	30.7	0.0
A12	823509	837018	6.5	7.5	30.7	0.0	30.7	0.0
A13	823171	837105	4.6	7.5	30.7	0.0	30.7	0.0
A14	823176	837031	4.4	7.5	30.7	0.0	30.7	0.0
A15	823272	836947	4.1	7.5	30.7	0.0	30.7	0.0
A16	823496	837908	4.2	7.5	30.7	0.0	30.8	0.1
A16A	823470	837872	4.2	7.5	30.7	0.0	30.8	0.1
A17	823501	838152	5.7	7.5	30.7	0.0	30.8	0.0
A18	823726	838016	3.5	7.5	30.7	0.0	30.8	0.1
A19	823750	837460	3.3	7.5	30.7	0.0	30.7	0.0
A20	823745	837355	4.2	7.5	30.7	0.0	30.7	0.0
A21	823714	837274	4.2	7.5	30.7	0.0	30.7	0.0
A22	823645	837066	3.5	7.5	30.7	0.0	30.7	0.0
A23	823921	837887	3.6	7.5	30.7	0.0	30.7	0.0
A24	823928	837924	3.5	7.5	30.7	0.0	30.7	0.0
A25	823756	838085	4.9	7.5	30.7	0.0	30.8	0.1
A26	823041	838099	4.4	7.5	30.7	0.0	30.7	0.0
A27	823466	837090	4.5	7.5	30.7	0.0	30.7	0.0
A28	823287	837864	4.3	7.5	30.7	0.0	30.8	0.1
A29	823279	837827	4.3	7.5	30.7	0.0	30.8	0.1
A30	823293	837535	4.5	7.5	30.7	0.0	30.8	0.0
A31	823394	837960	3.9	7.5	30.7	0.0	30.8	0.1
A32	823353	837069	4.5	7.5	30.7	0.0	30.7	0.0
A33	823439	837932	3.9	7.5	30.7	0.0	30.8	0.1
A34	823425	838140	5.2	7.5	30.7	0.0	30.7	0.0
A35	823581	838166	5	7.5	30.7	0.0	30.8	0.1
A36	823703	837968	3.5	7.5	30.7	0.0	30.8	0.1
A1Pa	823688	837719	3	7.5	30.7	0.0	30.8	0.0
A2Pa	823545	837421	3	7.5	30.8	0.0	30.8	0.1
A3Pa	823455	837785	4	7.5	30.7	0.0	N/A	N/A
A4Pa	823305	837427	4	7.5	30.7	0.0	N/A	N/A
A5Pa	823602	837796	4	7.5	30.7	0.0	N/A	N/A
V01	823572	837356	3	7.5	30.7	0.0	30.8	0.1
V02	823780	837738	2.4	7.5	30.7	0.0	30.7	0.0
V03	823525	837232	3	7.5	30.7	0.0	30.7	0.0
V04	823385	837124	4.8	7.5	30.7	0.0	30.7	0.0
Max. FSP Level, ug/m3					30.8	0.1	31.0	0.3
Relevant AQO Criteria, ug/m3					35	35	35	35
Compliance with AQO?					Yes	Yes	Yes	Yes

Remark: * The above results have included the background level extracted from the PATH Output (year 2015). The hour-by-hour background contribution is estimated using output of PATH model, and added hour-by-hour to the Project contribution in order to calculate the annual average total FSP levels.

** The FSP concentrations are calculated based on the predicted RSP concentrations by applying a FSP/RSP ratio of 0.3 according to the USEPA AP-42 reference document. Please refer to Appendix 3-10 for the justification of FSP/RSP ratio.

N/A The concerned ASRs are not relevant in this cumulative impact assessment.