

Appendix 3-5

Summary Table of RSP and FSP Assessment Results (Unmitigated Scenario)

ASR	X	Y	Z	Height above ground	1st Highest Daily RSP (With Bkg. Level) *	1st Highest Daily RSP (W/o Bkg.)	1st Highest RSP Concentration, µg/m3				10th Highest Daily RSP (With Bkg. Level) *	10th Highest Daily RSP (W/o Bkg.)	10th Highest RSP Concentration, µg/m3			
					With Bkg. Level	= Max of (A)+(B) or (C1)+(C2)	(A)	(B)	(C1)	(C2)	With Bkg. Level	= Max of (Aa)+(Ba) or (C1a)+(C2a)	(A)	(B)	(C1)	(C2)
							Workdays (day-time)	Workdays (Night-time)	Holidays (Day-time)	Holidays (Night-time)			Workdays (day-time)	Workdays (Night-time)	Holidays (Day-time)	Holidays (Night-time)
A06A	823365.92	837883.55	4.2	7.5	154	32	30.4	1.5	0.5	1.5	135	13	11.6	0.9	0.1	0.5
A07	823788.62	837882.5	3.1	7.5	148	26	23.5	2.2	0.5	1.0	134	12	11.1	0.8	0.2	0.2
A08	823679.12	837571.69	2.3	7.5	176	54	50.5	3.0	0.9	1.9	150	28	26.3	1.3	0.3	0.3
A09	823717.31	837567	3.5	7.5	173	51	48.7	2.3	0.7	1.6	149	27	25.2	1.3	0.2	0.3
A10	823227.62	837343.88	4.4	7.5	203	81	78.6	2.5	1.3	2.4	173	51	49.1	1.9	0.5	1.3
A10A	823188.8	837327.28	4.4	7.5	192	70	67.9	2.5	1.2	2.4	167	45	43.4	2.0	0.4	1.2
A11	823382.12	837043.19	4.5	7.5	222	100	97.5	2.7	1.4	1.0	187	65	64.1	1.3	0.5	0.4
A12	823509.19	837017.62	6.5	7.5	176	54	52.5	1.9	0.6	0.8	154	32	31.1	0.5	0.1	0.0
A13	823171.38	837105	4.6	7.5	188	66	63.6	2.8	1.0	3.5	165	43	40.5	2.2	0.3	1.5
A14	823175.5	837030.5	4.4	7.5	188	66	62.3	3.2	1.0	2.8	168	46	43.2	2.4	0.4	1.5
A15	823271.81	836947.19	4.1	7.5	204	82	77.6	4.6	0.9	1.5	175	53	50.6	1.9	0.2	0.6
A16	823496	837908.19	4.2	7.5	158	36	33.4	2.5	0.4	1.4	147	25	23.8	1.2	0.2	0.6
A16A	823470.21	837871.64	4.2	7.5	158	36	33.6	2.5	0.4	1.6	146	24	23.1	1.2	0.2	0.7
A17	823500.62	838152.38	5.7	7.5	143	21	18.8	1.9	0.2	0.8	137	15	13.7	0.8	0.1	0.3
A18	823725.62	838015.88	3.5	7.5	142	20	18.1	1.9	0.3	1.6	132	10	9.2	1.1	0.2	0.4
A19	823749.5	837459.62	3.3	7.5	176	54	52.6	1.7	0.6	1.3	146	24	23.3	0.8	0.2	0.2
A20	823745.38	837355.31	4.2	7.5	176	54	53.1	1.3	0.7	1.1	156	34	33.6	0.8	0.2	0.2
A21	823713.88	837274	4.2	7.5	187	65	63.5	1.2	1.1	1.3	166	44	43.4	0.6	0.3	0.1
A22	823645.12	837066.12	3.5	7.5	154	32	30.8	1.1	0.7	1.5	146	24	22.9	0.6	0.2	0.0
A23	823920.62	837886.69	3.6	7.5	143	21	19.1	1.6	0.3	0.8	131	9	7.9	0.6	0.1	0.1
A24	823927.69	837923.62	3.5	7.5	143	21	19.0	1.6	0.3	0.8	130	8	7.2	0.6	0.1	0.1
A25	823756	838085.19	4.9	7.5	140	18	15.9	1.7	0.2	1.4	131	9	7.9	1.0	0.1	0.3
A26	823040.62	838098.62	4.4	7.5	135	13	11.7	1.7	0.2	1.0	125	3	2.2	0.7	0.0	0.2
A27	823465.59	837089.89	4.5	7.5	216	94	93.1	1.1	1.1	1.1	181	59	59.0	0.4	0.5	0.0
A28	823286.57	837864.24	4.3	7.5	140	18	15.9	2.2	0.5	1.2	131	9	7.4	1.1	0.0	0.5
A29	823279.17	837826.61	4.3	7.5	141	19	16.4	2.2	0.6	1.3	131	9	7.6	1.2	0.0	0.5
A30	823293.2	837534.53	4.5	7.5	196	74	70.8	3.6	1.0	2.9	149	27	24.6	2.2	0.1	0.8
A31	823393.53	837959.69	3.9	7.5	148	26	24.4	1.4	0.5	1.7	134	12	11.2	0.8	0.1	0.4
A32	823353.02	837069.09	4.5	7.5	234	112	107.9	3.8	1.8	1.5	206	84	82.1	1.7	0.6	0.8
A33	823439.27	837932.11	3.9	7.5	150	28	26.4	1.8	0.4	1.7	139	17	16.4	0.9	0.1	0.5
A34	823424.53	838140.16	5.2	7.5	139	17	15.4	1.3	0.3	1.4	131	9	8.7	0.6	0.1	0.3
A35	823581.4	838166.28	5	7.5	144	22	20.3	1.4	0.3	1.0	135	13	12.2	0.8	0.1	0.3
A36	823703.1	837968.5	3.5	7.5	144	22	20.3	2.0	0.3	1.7	134	12	10.4	1.2	0.2	0.4
A1Pa	823687.9	837719	3	7.5	160	38	35.0	3.0	0.8	1.7	142	20	18.2	1.3	0.3	0.3
A2Pa	823545.2	837421.1	3	7.5	228	106	103.2	3.1	1.9	2.8	193	71	68.9	2.4	1.2	1.4
A3Pa	823454.7	837785.1	4	7.5	166	44	41.6	2.6	0.6	2.0	151	29	28.0	1.3	0.3	1.0
A4Pa	823304.9	837427.1	4	7.5	208	86	83.2	2.7	1.5	2.8	175	53	51.4	2.0	0.4	1.1
A5Pa	823602.1	837795.8	4	7.5	162	40	37.6	2.8	0.6	2.4	144	22	20.4	1.8	0.3	0.9
V01	823571.7	837355.7	3	7.5	214	92	90.0	2.4	2.0	2.1	198	76	74.4	1.6	1.0	0.5
V02	823780.1	837738.47	2.4	7.5	157	35	32.5	2.5	0.5	1.2	136	14	12.7	0.9	0.2	0.2
V03	823524.7	837232	3	7.5	218	96	94.7	1.2	1.8	1.1	190	68	67.2	0.8	0.8	0.4
V04	823384.5	837124.2	4.8	7.5	224	102	99.4	2.7	1.8	1.1	200	78	76.5	1.2	0.9	0.6
Max. RSP Level, µg/m ³					482	360					373	251				
Relevant AQO Criteria, µg/m ³					100	100					100	100				

Remark: * The above results have included the background level extracted from the PATH Output (year 2015). The maximum daily average RSP level from the PATH output file is used for calculating the total RSP level as the contribution from the Project has already exceeded the relevant air quality criteria (a conservative approach).

ASR	X	Y	Z	Height above ground	1st Highest Daily FSP (With Bkg. Level) * & **	1st Highest Daily FSP (W/o Bkg.) **	1st Highest FSP Concentration, ug/m3 **				10th Highest Daily FSP (With Bkg. Level) * & **	10th Highest Daily FSP (W/o Bkg.) **	10th Highest FSP Concentration, ug/m3 **			
					With Bkg. Level	= Max of (A)+(B) or (C1)+(C2)	(A) Workdays (day-time)	(B) Workdays (Night-time)	(C1) Holidays (Day-time)	(C2) Holidays (Night-time)	With Bkg. Level	= Max of (Aa)+(Ba) or (C1a)+(C2a)	(A) Workdays (day-time)	(B) Workdays (Night-time)	(C1) Holidays (Day-time)	(C2) Holidays (Night-time)
A06	823405	837870	4.2	7.5	100	9	8.7	0.5	0.2	0.6	96	5	4.6	0.3	0.0	0.2
A06A	823365.92	837883.55	4.2	7.5	101	10	9.1	0.5	0.2	0.5	95	4	3.5	0.3	0.0	0.2
A07	823788.62	837882.5	3.1	7.5	99	8	7.1	0.7	0.2	0.3	95	4	3.3	0.2	0.1	0.1
A08	823679.12	837571.69	2.3	7.5	107	16	15.2	0.9	0.3	0.6	99	8	7.9	0.4	0.1	0.1
A09	823717.31	837567	3.5	7.5	106	15	14.6	0.7	0.2	0.5	99	8	7.6	0.4	0.1	0.1
A10	823227.62	837343.88	4.4	7.5	115	24	23.6	0.8	0.4	0.7	106	15	14.7	0.6	0.2	0.4
A10A	823188.8	837327.28	4.4	7.5	112	21	20.4	0.8	0.4	0.7	105	14	13.0	0.6	0.1	0.4
A11	823382.12	837043.19	4.5	7.5	121	30	29.3	0.8	0.4	0.3	111	20	19.2	0.4	0.2	0.1
A12	823509.19	837017.62	6.5	7.5	107	16	15.8	0.6	0.2	0.2	100	9	9.3	0.2	0.0	0.0
A13	823171.38	837105	4.6	7.5	111	20	19.1	0.8	0.3	1.1	104	13	12.2	0.7	0.1	0.5
A14	823175.5	837030.5	4.4	7.5	111	20	18.7	1.0	0.3	0.8	105	14	13.0	0.7	0.1	0.5
A15	823271.81	836947.19	4.1	7.5	116	25	23.3	1.4	0.3	0.5	107	16	15.2	0.6	0.1	0.2
A16	823496	837908.19	4.2	7.5	102	11	10.0	0.8	0.1	0.4	99	8	7.1	0.4	0.1	0.2
A16A	823470.21	837871.64	4.2	7.5	102	11	10.1	0.8	0.1	0.5	98	7	6.9	0.4	0.1	0.2
A17	823500.62	838152.38	5.7	7.5	97	6	5.6	0.6	0.1	0.2	95	4	4.1	0.2	0.0	0.1
A18	823725.62	838015.88	3.5	7.5	97	6	5.4	0.6	0.1	0.5	94	3	2.8	0.3	0.1	0.1
A19	823749.5	837459.62	3.3	7.5	107	16	15.8	0.5	0.2	0.4	98	7	7.0	0.2	0.1	0.1
A20	823745.38	837355.31	4.2	7.5	107	16	15.9	0.4	0.2	0.3	101	10	10.1	0.2	0.1	0.1
A21	823713.88	837274	4.2	7.5	110	19	19.1	0.4	0.3	0.4	104	13	13.0	0.2	0.1	0.0
A22	823645.12	837066.12	3.5	7.5	101	10	9.2	0.3	0.2	0.5	98	7	6.9	0.2	0.1	0.0
A23	823920.62	837886.69	3.6	7.5	97	6	5.7	0.5	0.1	0.2	94	3	2.4	0.2	0.0	0.0
A24	823927.69	837923.62	3.5	7.5	97	6	5.7	0.5	0.1	0.2	93	2	2.2	0.2	0.0	0.0
A25	823756	838085.19	4.9	7.5	96	5	4.8	0.5	0.1	0.4	94	3	2.4	0.3	0.0	0.1
A26	823040.62	838098.62	4.4	7.5	95	4	3.5	0.5	0.1	0.3	92	1	0.7	0.2	0.0	0.1
A27	823465.59	837089.89	4.5	7.5	119	28	27.9	0.3	0.3	0.3	109	18	17.7	0.1	0.2	0.0
A28	823286.57	83864.24	4.3	7.5	96	5	4.8	0.7	0.2	0.4	94	3	2.2	0.3	0.0	0.2
A29	823279.17	837826.61	4.3	7.5	97	6	4.9	0.7	0.2	0.4	94	3	2.3	0.4	0.0	0.2
A30	823293.2	837534.53	4.5	7.5	113	22	21.2	1.1	0.3	0.9	99	8	7.4	0.7	0.0	0.2
A31	823393.53	837959.69	3.9	7.5	99	8	7.3	0.4	0.2	0.5	95	4	3.4	0.2	0.0	0.1
A32	823353.02	837069.09	4.5	7.5	125	34	32.4	1.1	0.5	0.5	116	25	24.6	0.5	0.2	0.2
A33	823439.27	837932.11	3.9	7.5	99	8	7.9	0.5	0.1	0.5	96	5	4.9	0.3	0.0	0.2
A34	823424.53	838140.16	5.2	7.5	96	5	4.6	0.4	0.1	0.4	94	3	2.6	0.2	0.0	0.1
A35	823581.4	838166.28	5	7.5	98	7	6.1	0.4	0.1	0.3	95	4	3.7	0.2	0.0	0.1
A36	823703.1	837968.5	3.5	7.5	98	7	6.1	0.6	0.1	0.5	94	3	3.1	0.4	0.1	0.1
A1Pa	823687.9	837719	3	7.5	102	11	10.5	0.9	0.2	0.5	97	6	5.5	0.4	0.1	0.1
A2Pa	823545.2	837421.1	3	7.5	123	32	31.0	0.9	0.6	0.8	112	21	20.7	0.7	0.4	0.4
A3Pa	823454.7	837785.1	4	7.5	104	13	12.5	0.8	0.2	0.6	100	9	8.4	0.4	0.1	0.3
A4Pa	823304.9	837427.1	4	7.5	117	26	25.0	0.8	0.5	0.8	107	16	15.4	0.6	0.1	0.3
A5Pa	823602.1	837795.8	4	7.5	103	12	11.3	0.8	0.2	0.7	98	7	6.1	0.5	0.1	0.3
V01	823571.7	837355.7	3	7.5	119	28	27.0	0.7	0.6	0.6	114	23	22.3	0.5	0.3	0.2
V02	823780.1	837738.47	2.4	7.5	102	11	9.8	0.8	0.2	0.4	95	4	3.8	0.3	0.1	0.1
V03	823524.7	837232	3	7.5	120	29	28.4	0.4	0.5	0.3	111	20	20.2	0.2	0.2	0.1
V04	823384.5	837124.2	4.8	7.5	122	31	29.8	0.8	0.5	0.3	114	23	23.0	0.4	0.3	0.2
Max. FSP Level, ug/m3					199	108					166	75.2				
Relevant AQO Criteria, ug/m3					75	75					75	75				

Remark: * The above results have included the background level extracted from the PATH Output (year 2015). The maximum daily average FSP level from the PATH output file is used for calculating the total FSP level as the contribution from the Project has already exceeded the relevant air quality criteria (a conservative approach).

** 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.

Appendix 3-5C Summary Table of Maximum Annual Average RSP Level (Unmitigated Scenario)

In calculating the unmitigated level, the predicted RSP level due to this Project has already exceeded the relevant air quality criteria at some of the ASRs regardless the background level (i.e. mitigation measures will be required regardless the background level), thus in calculating the total concentration of RSP (i.e. background + Project contribution), the maximum annual average RSP level from the PATH output file (i.e. 43 µg/m³) is used (a conservative approach).

ASR	X	Y	Z	Height above ground	Annual Average RSP (With Bkg. Level) *	Annual Average RSP (W/o Bkg.)	RSP Concentration, µg/m3			
					With Bkg. Level	=A+B+C1+C2	(A) Workdays (day-time)	(B) Workdays (Night-time)	(C1) Holidays (Day-time)	(C2) Holidays (Night-time)
A01	823101.1	837242.4	4.4	1.5	54	11	8.6	0.9	0.2	1.0
A01A	823124.3	837181.3	4.4	1.5	55	12	9.7	1.1	0.2	1.0
A02	823092.8	837314	4.4	1.5	52	9	7.5	0.8	0.1	0.8
A02A	823119.9	837359.1	4.4	1.5	52	9	7.5	0.9	0.1	0.8
A03	823260.8	837373.7	4.4	1.5	63	20	15.6	1.9	0.3	2.1
A04	823276.8	837456.1	4.3	1.5	55	12	8.6	1.5	0.2	1.7
A05	823287.1	837673.9	4.2	1.5	46	3	1.9	0.5	0.1	0.6
A05A	823269.6	837644.5	4.2	1.5	46	3	2.0	0.6	0.1	0.7
A05B	823308.7	837726.2	4.2	1.5	46	3	1.9	0.4	0.1	0.5
A06	823405	837870	4.2	1.5	47	4	3.6	0.3	0.1	0.4
A06A	823365.9	837883.6	4.2	1.5	46	3	2.4	0.2	0.1	0.3
A07	823788.6	837882.5	3.1	1.5	46	3	2.5	0.2	0.1	0.2
A08	823679.1	837571.7	2.3	1.5	51	8	7.0	0.5	0.2	0.4
A09	823717.3	837567	3.5	1.5	50	7	5.8	0.3	0.1	0.3
A10	823227.6	837343.9	4.4	1.5	61	18	14.2	1.6	0.3	1.7
A10A	823188.8	837327.3	4.4	1.5	58	15	11.8	1.3	0.2	1.3
A11	823382.1	837043.2	4.5	1.5	70	27	24.2	1.2	0.4	1.0
A12	823509.2	837017.6	6.5	1.5	48	5	4.3	0.2	0.1	0.1
A13	823171.4	837105	4.6	1.5	58	15	11.9	1.3	0.2	1.4
A14	823175.5	837030.5	4.4	1.5	56	13	11.0	1.1	0.2	1.1
A15	823271.8	836947.2	4.1	1.5	56	13	11.6	0.7	0.2	0.6
A16	823496	837908.2	4.2	1.5	49	6	5.6	0.3	0.1	0.4
A16A	823470.2	837871.6	4.2	1.5	50	7	5.8	0.3	0.1	0.4
A17	823500.6	838152.4	5.7	1.5	47	4	3.1	0.2	0.1	0.2
A18	823725.6	838015.9	3.5	1.5	46	3	2.3	0.3	0.1	0.2
A19	823749.5	837459.6	3.3	1.5	50	7	5.9	0.2	0.1	0.3
A20	823745.4	837355.3	4.2	1.5	51	8	7.7	0.2	0.1	0.2
A21	823713.9	837274	4.2	1.5	53	10	9.8	0.1	0.2	0.2
A22	823645.1	837066.1	3.5	1.5	48	5	4.5	0.1	0.1	0.2
A23	823920.6	837886.7	3.6	1.5	45	2	1.8	0.1	0.1	0.1
A24	823927.7	837923.6	3.5	1.5	45	2	1.7	0.1	0.1	0.1
A25	823756	838085.2	4.9	1.5	45	2	1.9	0.2	0.1	0.2
A26	823040.6	838098.6	4.4	1.5	44	1	0.4	0.2	0.0	0.1
A27	823465.6	837089.9	4.5	1.5	77	34	32.1	0.8	0.7	0.6
A28	823286.6	837864.2	4.3	1.5	45	2	1.2	0.2	0.1	0.3
A29	823279.2	837826.6	4.3	1.5	45	2	1.2	0.3	0.1	0.3
A30	823293.2	837534.5	4.5	1.5	50	7	4.1	1.1	0.1	1.3
A31	823393.5	837959.7	3.9	1.5	46	3	2.6	0.2	0.1	0.3
A32	823353	837069.1	4.5	1.5	81	38	33.3	2.1	0.5	1.9
A33	823439.3	837932.1	3.9	1.5	48	5	4.1	0.2	0.1	0.4
A34	823424.5	838140.2	5.2	1.5	46	3	2.2	0.1	0.0	0.2
A35	823581.4	838166.3	5	1.5	47	4	3.0	0.2	0.1	0.2
A36	823703.1	837968.5	3.5	1.5	46	3	2.7	0.3	0.1	0.3
A1Pa	823687.9	837719	3	1.5	49	6	4.6	0.4	0.2	0.3
A2Pa	823545.2	837421.1	3	1.5	88	45	39.5	2.2	1.0	2.1
A3Pa	823454.7	837785.1	4	1.5	51	8	7.3	0.4	0.1	0.5
A4Pa	823304.9	837427.1	4	1.5	62	19	14.6	2.2	0.3	2.3
A5Pa	823602.1	837795.8	4	1.5	50	7	5.7	0.5	0.1	0.6
V01	823571.7	837355.7	3	1.5	84	41	37.4	1.2	0.8	1.2
V02	823780.1	837738.5	2.4	1.5	47	4	3.3	0.2	0.1	0.2
V03	823524.7	837232	3	1.5	101	58	53.3	1.8	1.2	1.8
V04	823384.5	837124.2	4.8	1.5	141	98	88.2	4.4	1.6	4.0
A01	823101.1	837242.4	4.4	4.5	53	10	8.3	0.8	0.2	0.8
A01A	823124.3	837181.3	4.4	4.5	54	11	9.3	0.9	0.2	0.9
A02	823092.8	837314	4.4	4.5	52	9	7.3	0.7	0.1	0.7
A02A	823119.9	837359.1	4.4	4.5	52	9	7.3	0.7	0.1	0.7
A03	823260.8	837373.7	4.4	4.5	60	17	14.2	1.3	0.3	1.4
A04	823276.8	837456.1	4.3	4.5	53	10	7.8	1.0	0.2	1.1
A05	823287.1	837673.9	4.2	4.5	46	3	1.9	0.5	0.1	0.5
A05A	823269.6	837644.5	4.2	4.5	46	3	1.9	0.5	0.1	0.6
A05B	823308.7	837726.2	4.2	4.5	46	3	1.8	0.4	0.1	0.4
A06	823405	837870	4.2	4.5	47	4	3.6	0.2	0.1	0.4
A06A	823365.9	837883.6	4.2	4.5	46	3	2.3	0.2	0.1	0.3
A07	823788.6	837882.5	3.1	4.5	46	3	2.4	0.2	0.1	0.1
A08	823679.1	837571.7	2.3	4.5	51	8	6.8	0.4	0.2	0.3
A09	823717.3	837567	3.5	4.5	49	6	5.7	0.3	0.1	0.3
A10	823227.6	837343.9	4.4	4.5	59	16	13.2	1.2	0.3	1.2
A10A	823188.8	837327.3	4.4	4.5	56	13	11.2	1.0	0.2	1.0
A11	823382.1	837043.2	4.5	4.5	65	22	20.5	0.7	0.4	0.5
A12	823509.2	837017.6	6.5	4.5	47	4	4.0	0.1	0.1	0.1
A13	823171.4	837105	4.6	4.5	57	14	11.4	1.1	0.2	1.1
A14	823175.5	837030.5	4.4	4.5	56	13	10.6	0.9	0.2	0.9
A15	823271.8	836947.2	4.1	4.5	55	12	11.1	0.6	0.2	0.5
A16	823496	837908.2	4.2	4.5	49	6	5.5	0.3	0.1	0.4
A16A	823470.2	837871.6	4.2	4.5	50	7	5.7	0.3	0.1	0.4
A17	823500.6	838152.4	5.7	4.5	47	4	3.0	0.2	0.1	0.2
A18	823725.6	838015.9	3.5	4.5	46	3	2.3	0.3	0.1	0.2
A19	823749.5	837459.6	3.3	4.5	49	6	5.7	0.2	0.1	0.2
A20	823745.4	837355.3	4.2	4.5	51	8	7.5	0.1	0.1	0.2
A21	823713.9	837274	4.2	4.5	53	10	9.4	0.1	0.2	0.1
A22	823645.1	837066.1	3.5	4.5	48	5	4.3	0.1	0.1	0.1
A23	823920.6	837886.7	3.6	4.5	45	2	1.8	0.1	0.1	0.1
A24	823927.7	837923.6	3.5	4.5	45	2	1.7	0.1	0.1	0.1
A25	823756	838085.2	4.9	4.5	45	2	1.9	0.2	0.1	0.2
A26	823040.6	838098.6	4.4	4.5	44	1	0.4	0.1	0.0	0.1
A27	823465.6	837089.9	4.5	4.5	59	16	15.0	0.2	0.3	0.2
A28	823286.6	837864.2	4.3	4.5	45	2	1.2	0.2	0.1	0.3
A29	823279.2	837826.6	4.3	4.5	45	2	1.2	0.3	0.1	0.3
A30	823293.2	837534.5	4.5	4.5	49	6	3.9	0.8	0.1	1.0
A31	823393.5	837959.7	3.9	4.5	46	3	2.6	0.2	0.1	0.3
A32	823353	837069.1	4.5	4.5	73	30	27.8	1.1	0.5	1.0

ASR	X	Y	Z	Height above ground	Annual Average RSP (With Bkg. Level) *	Annual Average RSP (W/o Bkg.)	RSP Concentration, µg/m3				
					With Bkg. Level	=A+B+C1+C2	(A) Workdays (day-time)	(B) Workdays (Night-time)	(C1) Holidays (Day-time)	(C2) Holidays (Night-time)	
A33	823439.3	837932.1	3.9	4.5	48	5	4.0	0.2	0.1	0.3	
A34	823424.5	838140.2	5.2	4.5	46	3	2.2	0.1	0.0	0.2	
A35	823581.4	838166.3	5	4.5	47	4	3.0	0.2	0.1	0.2	
A36	823703.1	837968.5	3.5	4.5	46	3	2.7	0.3	0.1	0.3	
A1Pa	823687.9	837719	3	4.5	49	6	4.6	0.4	0.2	0.3	
A2Pa	823545.2	837421.1	3	4.5	79	36	32.7	1.3	0.8	1.2	
A3Pa	823454.7	837785.1	4	4.5	51	8	7.1	0.4	0.1	0.5	
A4Pa	823304.9	837427.1	4	4.5	59	16	12.6	1.3	0.3	1.4	
A5Pa	823602.1	837795.8	4	4.5	50	7	5.6	0.5	0.1	0.5	
V01	823571.7	837355.7	3	4.5	76	33	30.5	0.7	0.7	0.7	
V02	823780.1	837738.5	2.4	4.5	47	4	3.3	0.2	0.1	0.2	
V03	823524.7	837232	3	4.5	83	40	37.9	0.6	0.8	0.6	
V04	823384.5	837124.2	4.8	4.5	91	48	45.0	1.1	0.8	1.0	
A01	823101.1	837242.4	4.4	7.5	52	9	7.8	0.6	0.1	0.6	
A01A	823124.3	837181.3	4.4	7.5	53	10	8.7	0.6	0.2	0.6	
A02	823092.8	837314	4.4	7.5	51	8	6.8	0.5	0.1	0.5	
A02A	823119.9	837359.1	4.4	7.5	51	8	6.8	0.5	0.1	0.5	
A03	823260.8	837373.7	4.4	7.5	57	14	12.0	0.6	0.2	0.7	
A04	823276.8	837456.1	4.3	7.5	51	8	6.6	0.6	0.2	0.6	
A05	823287.1	837673.9	4.2	7.5	46	3	1.8	0.4	0.1	0.4	
A05A	823269.6	837644.5	4.2	7.5	46	3	1.8	0.4	0.1	0.4	
A05B	823308.7	837726.2	4.2	7.5	46	3	1.8	0.3	0.1	0.3	
A06	823405	837870	4.2	7.5	47	4	3.5	0.2	0.1	0.3	
A06A	823365.9	837883.6	4.2	7.5	46	3	2.3	0.2	0.1	0.3	
A07	823788.6	837882.5	3.1	7.5	46	3	2.4	0.2	0.1	0.1	
A08	823679.1	837571.7	2.3	7.5	50	7	6.5	0.3	0.2	0.3	
A09	823717.3	837567	3.5	7.5	49	6	5.4	0.2	0.1	0.2	
A10	823227.6	837343.9	4.4	7.5	56	13	11.5	0.6	0.2	0.7	
A10A	823188.8	837327.3	4.4	7.5	54	11	10.0	0.6	0.2	0.6	
A11	823382.1	837043.2	4.5	7.5	59	16	15.5	0.3	0.3	0.2	
A12	823509.2	837017.6	6.5	7.5	47	4	3.5	0.1	0.1	0.1	
A13	823171.4	837105	4.6	7.5	55	12	10.5	0.7	0.2	0.7	
A14	823175.5	837030.5	4.4	7.5	54	11	9.8	0.7	0.2	0.7	
A15	823271.8	836947.2	4.1	7.5	54	11	10.1	0.4	0.1	0.3	
A16	823496	837908.2	4.2	7.5	49	6	5.4	0.3	0.1	0.3	
A16A	823470.2	837871.6	4.2	7.5	49	6	5.6	0.3	0.1	0.4	
A17	823500.6	838152.4	5.7	7.5	47	4	3.0	0.2	0.1	0.2	
A18	823725.6	838015.9	3.5	7.5	46	3	2.3	0.2	0.1	0.2	
A19	823749.5	837459.6	3.3	7.5	49	6	5.4	0.1	0.1	0.2	
A20	823745.4	837355.3	4.2	7.5	50	7	7.0	0.1	0.1	0.1	
A21	823713.9	837274	4.2	7.5	52	9	8.7	0.1	0.2	0.1	
A22	823645.1	837066.1	3.5	7.5	47	4	4.0	0.1	0.1	0.1	
A23	823920.6	837886.7	3.6	7.5	45	2	1.8	0.1	0.1	0.1	
A24	823927.7	837923.6	3.5	7.5	45	2	1.7	0.1	0.1	0.1	
A25	823756	838085.2	4.9	7.5	45	2	1.9	0.2	0.1	0.2	
A26	823040.6	838098.6	4.4	7.5	44	1	0.4	0.1	0.0	0.1	
A27	823465.6	837089.9	4.5	7.5	52	9	8.8	0.1	0.2	0.1	
A28	823286.6	837864.2	4.3	7.5	45	2	1.2	0.2	0.1	0.2	
A29	823279.2	837826.6	4.3	7.5	45	2	1.2	0.2	0.1	0.2	
A30	823293.2	837534.5	4.5	7.5	48	5	3.6	0.5	0.1	0.6	
A31	823393.5	837959.7	3.9	7.5	46	3	2.5	0.2	0.1	0.3	
A32	823353	837069.1	4.5	7.5	65	22	20.7	0.5	0.4	0.4	
A33	823439.3	837932.1	3.9	7.5	48	5	3.9	0.2	0.1	0.3	
A34	823424.5	838140.2	5.2	7.5	46	3	2.2	0.1	0.0	0.2	
A35	823581.4	838166.3	5	7.5	46	3	2.9	0.2	0.1	0.2	
A36	823703.1	837968.5	3.5	7.5	46	3	2.6	0.3	0.1	0.2	
A1Pa	823687.9	837719	3	7.5	48	5	4.4	0.3	0.2	0.2	
A2Pa	823545.2	837421.1	3	7.5	70	27	24.6	0.7	0.6	0.6	
A3Pa	823454.7	837785.1	4	7.5	51	8	6.8	0.3	0.1	0.4	
A4Pa	823304.9	837427.1	4	7.5	54	11	9.8	0.6	0.2	0.6	
A5Pa	823602.1	837795.8	4	7.5	49	6	5.4	0.4	0.1	0.5	
V01	823571.7	837355.7	3	7.5	67	24	22.9	0.4	0.5	0.3	
V02	823780.1	837738.5	2.4	7.5	47	4	3.2	0.2	0.1	0.1	
V03	823524.7	837232	3	7.5	67	24	23.5	0.2	0.5	0.2	
V04	823384.5	837124.2	4.8	7.5	69	26	25.1	0.3	0.5	0.3	
Max. RSP Level, ug/m3					141	98					
Relevant AQO Criteria, ug/m3					50	50					

Remark: * The above results have included the background level extracted from the PATH Output (year 2015). The maximum annual average RSP level from the PATH output file is used for calculating the total RSP level as the contribution from the Project has already exceeded the relevant air quality criteria (a conservative approach).

Appendix 3-5D Summary Table of Maximum Annual Average FSP Level (Unmitigated Scenario)

In calculating the unmitigated level, the predicted FSP level due to this Project has already exceeded the relevant air quality criteria at some of the ASRs regardless the background level (i.e. mitigation measures will be required regardless the background level), thus in calculating the total concentration of FSP (i.e. background + Project contribution), the maximum annual average FSP level from the PATH output file (i.e. 31 µg/m3) is used (a conservative approach).

ASR	X	Y	Z	Height above ground	Annual Average FSP (With Bkg. Level) * & **	Annual Average FSP (W/o Bkg.) **	FSP Concentration, µg/m3 **			
					With Bkg. Level	=A+B+C1+C2	(A) Workdays (day-time)	(B) Workdays (Night-time)	(C1) Holidays (Day-time)	(C2) Holidays (Night-time)
A01	823101.1	837242.4	4.4	1.5	34	3	2.6	0.3	0.1	0.3
A01A	823124.3	837181.3	4.4	1.5	35	4	2.9	0.3	0.1	0.3
A02	823092.8	837314	4.4	1.5	34	3	2.3	0.2	0.0	0.2
A02A	823119.9	837359.1	4.4	1.5	34	3	2.3	0.3	0.0	0.2
A03	823260.8	837373.7	4.4	1.5	37	6	4.7	0.6	0.1	0.6
A04	823276.8	837456.1	4.3	1.5	35	4	2.6	0.5	0.1	0.5
A05	823287.1	837673.9	4.2	1.5	32	1	0.6	0.2	0.0	0.2
A05A	823269.6	837644.5	4.2	1.5	32	1	0.6	0.2	0.0	0.2
A05B	823308.7	837726.2	4.2	1.5	32	1	0.6	0.1	0.0	0.2
A06	823405	837870	4.2	1.5	32	1	1.1	0.1	0.0	0.1
A06A	823365.9	837883.6	4.2	1.5	32	1	0.7	0.1	0.0	0.1
A07	823788.6	837882.5	3.1	1.5	32	1	0.8	0.1	0.0	0.1
A08	823679.1	837571.7	2.3	1.5	33	2	2.1	0.2	0.1	0.1
A09	823717.3	837567	3.5	1.5	33	2	1.7	0.1	0.0	0.1
A10	823227.6	837343.9	4.4	1.5	36	5	4.3	0.5	0.1	0.5
A10A	823188.8	837327.3	4.4	1.5	35	4	3.5	0.4	0.1	0.4
A11	823382.1	837043.2	4.5	1.5	39	8	7.3	0.4	0.1	0.3
A12	823509.2	837017.6	6.5	1.5	32	1	1.3	0.1	0.0	0.0
A13	823171.4	837105	4.6	1.5	35	4	3.6	0.4	0.1	0.4
A14	823175.5	837030.5	4.4	1.5	35	4	3.3	0.3	0.1	0.3
A15	823271.8	836947.2	4.1	1.5	35	4	3.5	0.2	0.1	0.2
A16	823496	837908.2	4.2	1.5	33	2	1.7	0.1	0.0	0.1
A16A	823470.2	837871.6	4.2	1.5	33	2	1.7	0.1	0.0	0.1
A17	823500.6	838152.4	5.7	1.5	32	1	0.9	0.1	0.0	0.1
A18	823725.6	838015.9	3.5	1.5	32	1	0.7	0.1	0.0	0.1
A19	823749.5	837459.6	3.3	1.5	33	2	1.8	0.1	0.0	0.1
A20	823745.4	837355.3	4.2	1.5	33	2	2.3	0.1	0.0	0.1
A21	823713.9	837274	4.2	1.5	34	3	2.9	0.0	0.1	0.1
A22	823645.1	837066.1	3.5	1.5	32	1	1.4	0.0	0.0	0.1
A23	823920.6	837886.7	3.6	1.5	32	1	0.5	0.0	0.0	0.0
A24	823927.7	837923.6	3.5	1.5	32	1	0.5	0.0	0.0	0.0
A25	823756	838085.2	4.9	1.5	32	1	0.6	0.1	0.0	0.1
A26	823040.6	838098.6	4.4	1.5	31	0	0.1	0.1	0.0	0.0
A27	823465.6	837089.9	4.5	1.5	41	10	9.6	0.2	0.2	0.2
A28	823286.6	837864.2	4.3	1.5	32	1	0.4	0.1	0.0	0.1
A29	823279.2	837826.6	4.3	1.5	32	1	0.4	0.1	0.0	0.1
A30	823293.2	837534.5	4.5	1.5	33	2	1.2	0.3	0.0	0.4
A31	823393.5	837959.7	3.9	1.5	32	1	0.8	0.1	0.0	0.1
A32	823353	837069.1	4.5	1.5	42	11	10.0	0.6	0.2	0.6
A33	823439.3	837932.1	3.9	1.5	32	1	1.2	0.1	0.0	0.1
A34	823424.5	838140.2	5.2	1.5	32	1	0.7	0.0	0.0	0.1
A35	823581.4	838166.3	5	1.5	32	1	0.9	0.1	0.0	0.1
A36	823703.1	837968.5	3.5	1.5	32	1	0.8	0.1	0.0	0.1
A1Pa	823687.9	837719	3	1.5	33	2	1.4	0.1	0.1	0.1
A2Pa	823545.2	837421.1	3	1.5	44	13	11.9	0.7	0.3	0.6
A3Pa	823454.7	837785.1	4	1.5	33	2	2.2	0.1	0.0	0.2
A4Pa	823304.9	837427.1	4	1.5	37	6	4.4	0.7	0.1	0.7
A5Pa	823602.1	837795.8	4	1.5	33	2	1.7	0.2	0.0	0.2
V01	823571.7	837355.7	3	1.5	43	12	11.2	0.4	0.2	0.4
V02	823780.1	837738.5	2.4	1.5	32	1	1.0	0.1	0.0	0.1
V03	823524.7	837232	3	1.5	48	17	16.0	0.5	0.4	0.5
V04	823384.5	837124.2	4.8	1.5	60	29	26.5	1.3	0.5	1.2
A01	823101.1	837242.4	4.4	4.5	34	3	2.5	0.2	0.1	0.2
A01A	823124.3	837181.3	4.4	4.5	34	3	2.8	0.3	0.1	0.3
A02	823092.8	837314	4.4	4.5	34	3	2.2	0.2	0.0	0.2
A02A	823119.9	837359.1	4.4	4.5	34	3	2.2	0.2	0.0	0.2
A03	823260.8	837373.7	4.4	4.5	36	5	4.3	0.4	0.1	0.4
A04	823276.8	837456.1	4.3	4.5	34	3	2.3	0.3	0.1	0.3
A05	823287.1	837673.9	4.2	4.5	32	1	0.6	0.2	0.0	0.2
A05A	823269.6	837644.5	4.2	4.5	32	1	0.6	0.2	0.0	0.2
A05B	823308.7	837726.2	4.2	4.5	32	1	0.5	0.1	0.0	0.1
A06	823405	837870	4.2	4.5	32	1	1.1	0.1	0.0	0.1
A06A	823365.9	837883.6	4.2	4.5	32	1	0.7	0.1	0.0	0.1
A07	823788.6	837882.5	3.1	4.5	32	1	0.7	0.1	0.0	0.0
A08	823679.1	837571.7	2.3	4.5	33	2	2.0	0.1	0.1	0.1
A09	823717.3	837567	3.5	4.5	33	2	1.7	0.1	0.0	0.1
A10	823227.6	837343.9	4.4	4.5	36	5	4.0	0.4	0.1	0.4
A10A	823188.8	837327.3	4.4	4.5	35	4	3.4	0.3	0.1	0.3
A11	823382.1	837043.2	4.5	4.5	38	7	6.2	0.2	0.1	0.2
A12	823509.2	837017.6	6.5	4.5	32	1	1.2	0.0	0.0	0.0
A13	823171.4	837105	4.6	4.5	35	4	3.4	0.3	0.1	0.3
A14	823175.5	837030.5	4.4	4.5	35	4	3.2	0.3	0.1	0.3
A15	823271.8	836947.2	4.1	4.5	35	4	3.3	0.2	0.1	0.2
A16	823496	837908.2	4.2	4.5	33	2	1.7	0.1	0.0	0.1
A16A	823470.2	837871.6	4.2	4.5	33	2	1.7	0.1	0.0	0.1
A17	823500.6	838152.4	5.7	4.5	32	1	0.9	0.1	0.0	0.1
A18	823725.6	838015.9	3.5	4.5	32	1	0.7	0.1	0.0	0.1
A19	823749.5	837459.6	3.3	4.5	33	2	1.7	0.1	0.0	0.1
A20	823745.4	837355.3	4.2	4.5	33	2	2.3	0.0	0.0	0.1
A21	823713.9	837274	4.2	4.5	34	3	2.8	0.0	0.1	0.0
A22	823645.1	837066.1	3.5	4.5	32	1	1.3	0.0	0.0	0.0
A23	823920.6	837886.7	3.6	4.5	32	1	0.5	0.0	0.0	0.0
A24	823927.7	837923.6	3.5	4.5	32	1	0.5	0.0	0.0	0.0
A25	823756	838085.2	4.9	4.5	32	1	0.6	0.1	0.0	0.1
A26	823040.6	838098.6	4.4	4.5	31	0	0.1	0.0	0.0	0.0
A27	823465.6	837089.9	4.5	4.5	36	5	4.5	0.1	0.1	0.1
A28	823286.6	837864.2	4.3	4.5	32	1	0.4	0.1	0.0	0.1
A29	823279.2	837826.6	4.3	4.5	32	1	0.4	0.1	0.0	0.1
A30	823293.2	837534.5	4.5	4.5	33	2	1.2	0.2	0.0	0.3
A31	823393.5	837959.7	3.9	4.5	32	1	0.8	0.1	0.0	0.1

ASR	X	Y	Z	Height above ground	Annual Average FSP (With Bkg. Level) * & **	Annual Average FSP (W/o Bkg.) **	FSP Concentration, µg/m3 **				
					With Bkg. Level	=A+B+C1+C2	(A) Workdays (day-time)	(B) Workdays (Night-time)	(C1) Holidays (Day-time)	(C2) Holidays (Night-time)	
A32	823353	837069.1	4.5	4.5	40	9	8.3	0.3	0.2	0.3	
A33	823439.3	837932.1	3.9	4.5	32	1	1.2	0.1	0.0	0.1	
A34	823424.5	838140.2	5.2	4.5	32	1	0.7	0.0	0.0	0.1	
A35	823581.4	838166.3	5	4.5	32	1	0.9	0.1	0.0	0.1	
A36	823703.1	837968.5	3.5	4.5	32	1	0.8	0.1	0.0	0.1	
A1Pa	823687.9	837719	3	4.5	33	2	1.4	0.1	0.1	0.1	
A2Pa	823545.2	837421.1	3	4.5	42	11	9.8	0.4	0.2	0.4	
A3Pa	823454.7	837785.1	4	4.5	33	2	2.1	0.1	0.0	0.2	
A4Pa	823304.9	837427.1	4	4.5	36	5	3.8	0.4	0.1	0.4	
A5Pa	823602.1	837795.8	4	4.5	33	2	1.7	0.2	0.0	0.2	
V01	823571.7	837355.7	3	4.5	41	10	9.2	0.2	0.2	0.2	
V02	823780.1	837738.5	2.4	4.5	32	1	1.0	0.1	0.0	0.1	
V03	823524.7	837232	3	4.5	43	12	11.4	0.2	0.2	0.2	
V04	823384.5	837124.2	4.8	4.5	45	14	13.5	0.3	0.2	0.3	
A01	823101.1	837242.4	4.4	7.5	34	3	2.3	0.2	0.0	0.2	
A01A	823124.3	837181.3	4.4	7.5	34	3	2.6	0.2	0.1	0.2	
A02	823092.8	837314	4.4	7.5	33	2	2.0	0.2	0.0	0.2	
A02A	823119.9	837359.1	4.4	7.5	33	2	2.0	0.2	0.0	0.2	
A03	823260.8	837373.7	4.4	7.5	35	4	3.6	0.2	0.1	0.2	
A04	823276.8	837456.1	4.3	7.5	33	2	2.0	0.2	0.1	0.2	
A05	823287.1	837673.9	4.2	7.5	32	1	0.5	0.1	0.0	0.1	
A05A	823269.6	837644.5	4.2	7.5	32	1	0.5	0.1	0.0	0.1	
A05B	823308.7	837726.2	4.2	7.5	32	1	0.5	0.1	0.0	0.1	
A06	823405	837870	4.2	7.5	32	1	1.1	0.1	0.0	0.1	
A06A	823365.9	837883.6	4.2	7.5	32	1	0.7	0.1	0.0	0.1	
A07	823788.6	837882.5	3.1	7.5	32	1	0.7	0.1	0.0	0.0	
A08	823679.1	837571.7	2.3	7.5	33	2	2.0	0.1	0.1	0.1	
A09	823717.3	837567	3.5	7.5	33	2	1.6	0.1	0.0	0.1	
A10	823227.6	837343.9	4.4	7.5	35	4	3.5	0.2	0.1	0.2	
A10A	823188.8	837327.3	4.4	7.5	34	3	3.0	0.2	0.1	0.2	
A11	823382.1	837043.2	4.5	7.5	36	5	4.7	0.1	0.1	0.1	
A12	823509.2	837017.6	6.5	7.5	32	1	1.1	0.0	0.0	0.0	
A13	823171.4	837105	4.6	7.5	35	4	3.2	0.2	0.1	0.2	
A14	823175.5	837030.5	4.4	7.5	34	3	2.9	0.2	0.1	0.2	
A15	823271.8	836947.2	4.1	7.5	34	3	3.0	0.1	0.0	0.1	
A16	823496	837908.2	4.2	7.5	33	2	1.6	0.1	0.0	0.1	
A16A	823470.2	837871.6	4.2	7.5	33	2	1.7	0.1	0.0	0.1	
A17	823500.6	838152.4	5.7	7.5	32	1	0.9	0.1	0.0	0.1	
A18	823725.6	838015.9	3.5	7.5	32	1	0.7	0.1	0.0	0.1	
A19	823749.5	837459.6	3.3	7.5	33	2	1.6	0.0	0.0	0.1	
A20	823745.4	837355.3	4.2	7.5	33	2	2.1	0.0	0.0	0.0	
A21	823713.9	837274	4.2	7.5	34	3	2.6	0.0	0.1	0.0	
A22	823645.1	837066.1	3.5	7.5	32	1	1.2	0.0	0.0	0.0	
A23	823920.6	837886.7	3.6	7.5	32	1	0.5	0.0	0.0	0.0	
A24	823927.7	837923.6	3.5	7.5	32	1	0.5	0.0	0.0	0.0	
A25	823756	838085.2	4.9	7.5	32	1	0.6	0.1	0.0	0.1	
A26	823040.6	838098.6	4.4	7.5	31	0	0.1	0.0	0.0	0.0	
A27	823465.6	837089.9	4.5	7.5	34	3	2.6	0.0	0.1	0.0	
A28	823286.6	837864.2	4.3	7.5	32	1	0.4	0.1	0.0	0.1	
A29	823279.2	837826.6	4.3	7.5	32	1	0.4	0.1	0.0	0.1	
A30	823293.2	837534.5	4.5	7.5	32	1	1.1	0.2	0.0	0.2	
A31	823393.5	837959.7	3.9	7.5	32	1	0.8	0.1	0.0	0.1	
A32	823353	837069.1	4.5	7.5	38	7	6.2	0.2	0.1	0.1	
A33	823439.3	837932.1	3.9	7.5	32	1	1.2	0.1	0.0	0.1	
A34	823424.5	838140.2	5.2	7.5	32	1	0.7	0.0	0.0	0.1	
A35	823581.4	838166.3	5	7.5	32	1	0.9	0.1	0.0	0.1	
A36	823703.1	837968.5	3.5	7.5	32	1	0.8	0.1	0.0	0.1	
A1Pa	823687.9	837719	3	7.5	33	2	1.3	0.1	0.1	0.1	
A2Pa	823545.2	837421.1	3	7.5	39	8	7.4	0.2	0.2	0.2	
A3Pa	823454.7	837785.1	4	7.5	33	2	2.0	0.1	0.0	0.1	
A4Pa	823304.9	837427.1	4	7.5	34	3	2.9	0.2	0.1	0.2	
A5Pa	823602.1	837795.8	4	7.5	33	2	1.6	0.1	0.0	0.2	
V01	823571.7	837355.7	3	7.5	38	7	6.9	0.1	0.2	0.1	
V02	823780.1	837738.5	2.4	7.5	32	1	1.0	0.1	0.0	0.0	
V03	823524.7	837232	3	7.5	38	7	7.1	0.1	0.2	0.1	
V04	823384.5	837124.2	4.8	7.5	39	8	7.5	0.1	0.2	0.1	
Max. FSP Level, ug/m3					60	29					
Relevant AQO Criteria, ug/m3					35	35					

Remark: * The above results have included the background level extracted from the PATH Output (year 2015). The maximum annual average FSP level from the PATH output file is used for calculating the total FSP level (a conservative approach).

** 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.