

Appendix 4C

Details of Dust Emission Sources of Concurrent Projects

Appendix 4C

CE 38/2008(HV)

Kai Tak Development - Trunk Road T2 and Infrastructure at South Apron

Investigation, Design and Construction

Emission Rates and Locations of Dust Sources of Concurrent Projects

Short Term Emission

Unmitigated Scenario

ID	Emission Rate 1 (Day) (g/s or g/sq.m/s)	Emission Rate 2 (Day) (g/s or g/sq.m/s)	Total Emission Rate (Day) (g/s or g/sq.m/s)	Emission Rate (Night) (g/s or g/sq.m/s)	X-Centre	Y-Centre	X-Centre (End)	Y-Centre (End)	X-Length (m)	Y-Length (m)	Height (m)	Rotation Angle / Width (m)
CKRE12	2.3949E-04	2.6950E-06	2.4219E-04	2.6950E-06	838945.0	820424.0			75.0	18.0	0.5	10.00
SCL581	1.7228E-05		1.7228E-05		839247.0	820142.0			57.0	6.0	0	3.00
SCL580	1.7228E-05		1.7228E-05		839187.0	820173.0			6.0	85.0	0	46.00
SCL582	1.7228E-05		1.7228E-05		839153.0	820231.0			6.0	57.0	0	3.00
SCL579	1.7228E-05		1.7228E-05		839132.0	820115.0			155.0	6.0	0	46.00
SCL578	1.7228E-05		1.7228E-05		838909.0	820214.0			11.0	467.0	0	46.00
SCL576	1.7228E-05		1.7228E-05		838794.0	819996.0			8.0	487.0	0	47.00
SCL577	1.7228E-05		1.7228E-05		838915.0	819763.0			176.0	8.0	0	47.00
SCLKTBgP tHR1	1.7228E-05		1.7228E-05		838709.0	819831.0			8.0	400.0	0	46.00
SCLKTBgP tHR5	1.7228E-05		1.7228E-05		838937.0	819651.0			8.0	177.0	0	46.00
SCLKTBgP tHR4	1.7228E-05		1.7228E-05		838987.0	819570.0			55.0	8.0	0	46.00
SCLKTBgP tHR3	1.7228E-05		1.7228E-05		838760.0	819744.0			8.0	577.0	0	46.00
SCLKTBgP t-3	1.9076E-02		1.9076E-02		838906.0	819554.0						

Legends

Concurrent Projects

SCL - Shatin-Central Link

KTD - Kai Tak Development

CKR - Central Kowloon Route

LTT - Tseung Kwan O - Lam Tin Tunnel

Appendix 4C

CE 38/2008(HY)

Kai Tak Development - Trunk Road T2 and Infrastructure at South Apron

Investigation, Design and Construction

Emission Rates and Locations of Dust Sources of Concurrent Projects

Long Term Emission

Unmitigated Scenario

ID	Emission Rate 1 (Day) (g/s or g/eq.m/s)	Emission Rate 2 (Day) (g/s or g/eq.m/s)	Total Emission Rate (Day) (g/s or g/eq.m/s)	Emission Rate (Night) (g/s or g/eq.m/s)	X-Centre	Y-Centre	X-Centre (End)	Y-Centre (End)	X-Length (m)	Y-Length (m)	Height (m)	Rotation Angle / Width (m)
CKRE12	1.4370E-05	1.6200E-07	1.4532E-05	1.6200E-07	838945.0	820424.0			75.0	18.0	0.5	10.00
SCL581	1.7228E-05		1.7228E-05		839247.0	820142.0			57.0	6.0	0	3.00
SCL580	1.7228E-05		1.7228E-05		839187.0	820173.0			6.0	85.0	0	46.00
SCL582	1.7228E-05		1.7228E-05		839153.0	820231.0			6.0	57.0	0	3.00
SCL579	1.7228E-05		1.7228E-05		839132.0	820115.0			155.0	6.0	0	46.00
SCL578	1.7228E-05		1.7228E-05		838909.0	820214.0			11.0	467.0	0	46.00
SCL576	1.7228E-05		1.7228E-05		838794.0	819996.0			8.0	487.0	0	47.00
SCL577	1.7228E-05		1.7228E-05		838915.0	819763.0			176.0	8.0	0	47.00
SCLKTBgP tHR1	1.7228E-05		1.7228E-05		838709.0	819831.0			8.0	400.0	0	46.00
SCLKTBgP tHR5	1.7228E-05		1.7228E-05		838937.0	819651.0			8.0	177.0	0	46.00
SCLKTBgP tHR4	1.7228E-05		1.7228E-05		838987.0	819570.0			55.0	8.0	0	46.00
SCLKTBgP tHR3	1.7228E-05		1.7228E-05		838760.0	819744.0			8.0	577.0	0	46.00
SCLKTBgP t-3	1.9076E-02		1.9076E-02		838906.0	819554.0						

Legends

Concurrent Projects

SCL - Shatin-Central Link

KTD - Kai Tak Development

CKR - Central Kowloon Route

LTT - Tseung Kwan O - Lam Tin Tunnel

Appendix 4C

CE 38/2008(HY)

Kai Tak Development - Trunk Road T2 and Infrastructure at South Apron

Investigation, Design and Construction

Emission Rates and Locations of Dust Sources of Concurrent Projects

Tier 1 Short Term Emission

Mitigated Scenario

ID	Emission Rate 1 (Day) (g/s or g/sq.m/s)	Emission Rate 2 (Day) (g/s or g/sq.m/s)	Total Emission Rate (Day) (g/s or g/sq.m/s)	Emission Rate (Night) (g/s or g/sq.m/s)	X-Centre	Y-Centre	X-Centre (End)	Y-Centre (End)	X-Length (m)	Y-Length (m)	Height (m)	Rotation Angle / Width (m)
CKRE23	1.9878E-05	2.2400E-07	2.0102E-05	2.6950E-06	838988.0	820400.0			95.0	18.0	0.5	73.00
CKRE24	1.9878E-05	2.2400E-07	2.0102E-05	2.6950E-06	839057.0	820382.0			29.0	314.0	0.5	47.00
CKRE12	1.9878E-05	2.2400E-07	2.0102E-05	2.6950E-06	838945.0	820424.0			75.0	18.0	0.5	10.00
SCL581	1.7228E-05		1.7228E-05		839247.0	820142.0			57.0	6.0	0	3.00
SCL580	1.7228E-05		1.7228E-05		839187.0	820173.0			6.0	85.0	0	46.00
SCL582	1.7228E-05		1.7228E-05		839153.0	820231.0			6.0	57.0	0	3.00
SCL579	1.7228E-05		1.7228E-05		839132.0	820115.0			155.0	6.0	0	46.00
SCL578	1.7228E-05		1.7228E-05		838909.0	820214.0			11.0	467.0	0	46.00
SCL576	1.7228E-05		1.7228E-05		838794.0	819996.0			8.0	487.0	0	47.00
SCL577	1.7228E-05		1.7228E-05		838915.0	819763.0			176.0	8.0	0	47.00
SCLKTBgP tHR1	1.7228E-05		1.7228E-05		838709.0	819831.0			8.0	400.0	0	46.00
SCLKTBgP tHR5	1.7228E-05		1.7228E-05		838937.0	819651.0			8.0	177.0	0	46.00
SCLKTBgP tHR4	1.7228E-05		1.7228E-05		838987.0	819570.0			55.0	8.0	0	46.00
SCLKTBgP tHR3	1.7228E-05		1.7228E-05		838760.0	819744.0			8.0	577.0	0	46.00
SCLKTBgP t-3	1.9076E-02		1.9076E-02		838906.0	819554.0						

Legends

Concurrent Projects

SCL - Shatin-Central Link

KTD - Kai Tak Development

CKR - Central Kowloon Route

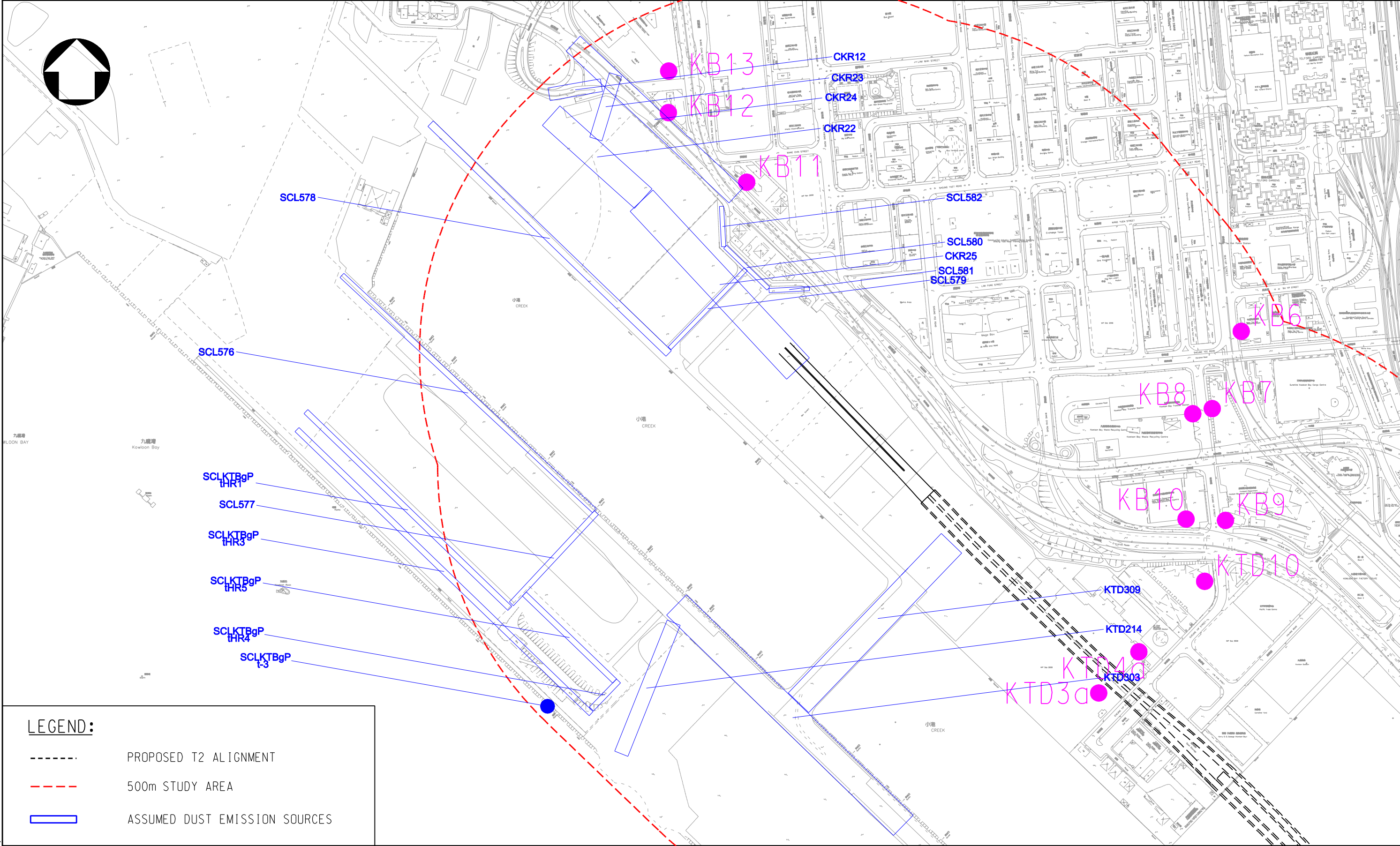
LTT - Tseung Kwan O - Lam Tin Tunnel

Appendix 4C

CE 38/2008(HY)
Kai Tak Development - Trunk Road T2 and Infrastructure at South Apron
Investigation, Design and Construction
Emission Rates and Locations of Dust Sources of Concurrent Projects
Long Term Emission
Mitigated Scenario

ID	Emission Rate 1 (Day) (g/s or g/sq.m/s)	Emission Rate 2 (Day) (g/s or g/sq.m/s)	Total Emission Rate (Day) (g/s or g/sq.m/s)	Emission Rate (Night) (g/s or g/sq.m/s)	X-Centre	Y-Centre	X-Centre (End)	Y-Centre (End)	X-Length (m)	Y-Length (m)	Height (m)	Rotation Angle / Width (m)
CKRE23	1.1930E-06	1.3000E-08	1.2060E-06	1.6200E-07	838988.0	820400.0			95.0	18.0	0.5	73.00
CKRE24	1.1930E-06	1.3000E-08	1.2060E-06	1.6200E-07	839057.0	820382.0			29.0	314.0	0.5	47.00
CKRE12	1.1930E-06	1.3000E-08	1.2060E-06	1.6200E-07	838945.0	820424.0			75.0	18.0	0.5	10.00
SCL581	1.7228E-05		1.7228E-05		839247.0	820142.0			57.0	6.0	0	3.00
SCL580	1.7228E-05		1.7228E-05		839187.0	820173.0			6.0	85.0	0	46.00
SCL582	1.7228E-05		1.7228E-05		839153.0	820231.0			6.0	57.0	0	3.00
SCL579	1.7228E-05		1.7228E-05		839132.0	820115.0			155.0	6.0	0	46.00
SCL578	1.7228E-05		1.7228E-05		838909.0	820214.0			11.0	467.0	0	46.00
SCL576	1.7228E-05		1.7228E-05		838794.0	819996.0			8.0	487.0	0	47.00
SCL577	1.7228E-05		1.7228E-05		838915.0	819763.0			176.0	8.0	0	47.00
SCLKTBgP tHR1	1.7228E-05		1.7228E-05		838709.0	819831.0			8.0	400.0	0	46.00
SCLKTBgP tHR5	1.7228E-05		1.7228E-05		838937.0	819651.0			8.0	177.0	0	46.00
SCLKTBgP tHR4	1.7228E-05		1.7228E-05		838987.0	819570.0			55.0	8.0	0	46.00
SCLKTBgP tHR3	1.7228E-05		1.7228E-05		838760.0	819744.0			8.0	577.0	0	46.00
SCLKTBgP t-3	1.9076E-02		1.9076E-02		838906.0	819554.0						

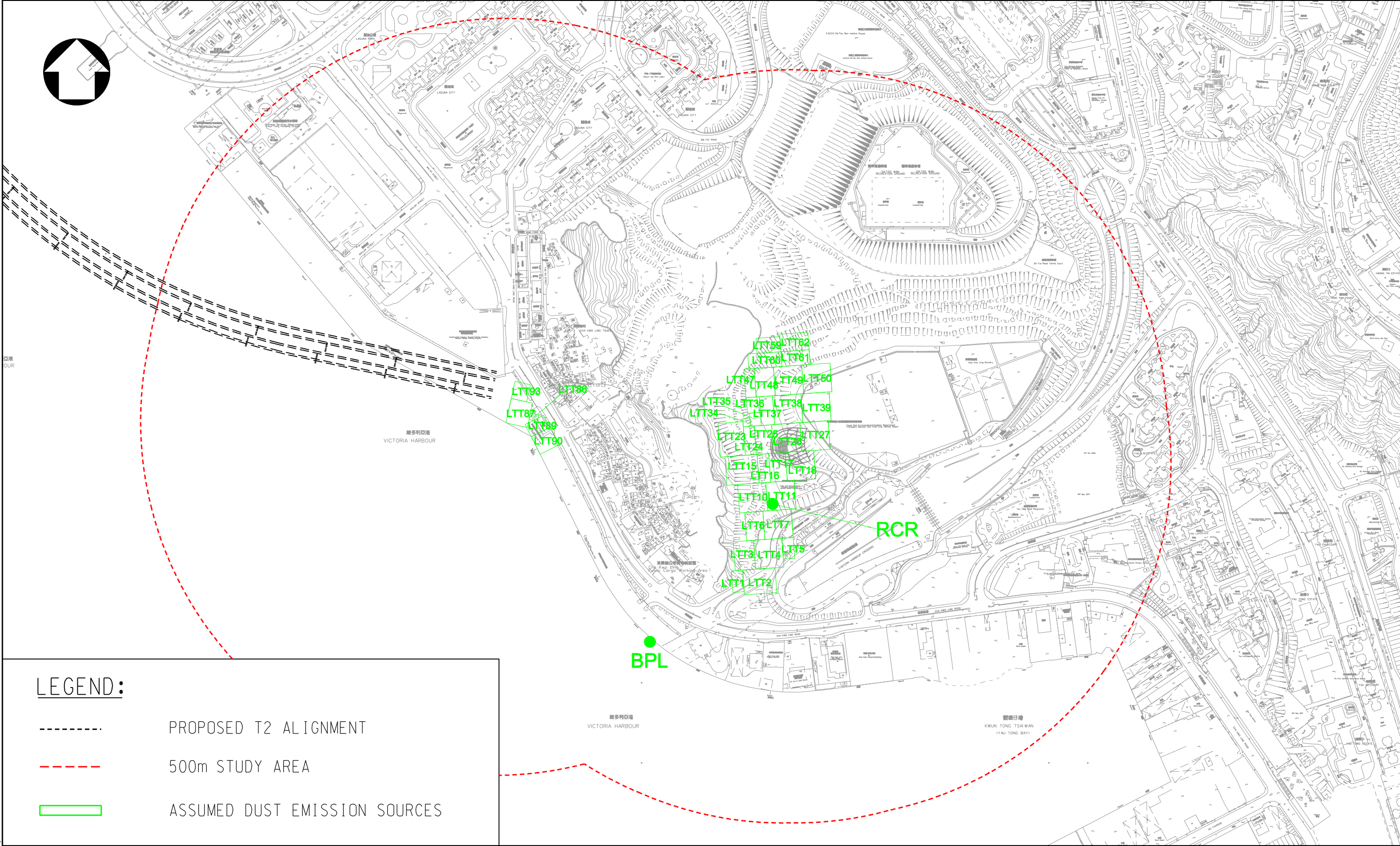
Legends
Concurrent Projects
SCL - Shatin-Central Link
KTD - Kai Tak Development
CKR - Central Kowloon Route
LTT - Tseung Kwan O - Lam Tin Tunnel



LEGEND:

- PROPOSED T2 ALIGNMENT
- 500m STUDY AREA
- ASSUMED DUST EMISSION SOURCES

Rev.	Description	Date	Drawing title LOCATIONS OF DUST EMISSION SOURCES FOR CONCURRENT PROJECTS TIER 1 (SHORT TERM AND LONG TERM)	Original Size A3	Scale 1 : 5000	Date 24/04/2013	File name Drawing No. APPENDIX 4C-1a	Rev. 1
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LEGEND:

- PROPOSED T2 ALIGNMENT
- - - - - 500m STUDY AREA
- ASSUMED DUST EMISSION SOURCES

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Drawing title LOCATIONS OF DUST EMISSION SOURCES FOR CONCURRENT PROJECTS MITIGATED SCENARIO TIER 2 (SHORT TERM)			Original Size	A3	Scale 1 : 5000	Date 08/07/2013
Rev.			Description			Date
© Copyright reserved			Drawing No. APPENDIX 4C-2b			Rev. 2