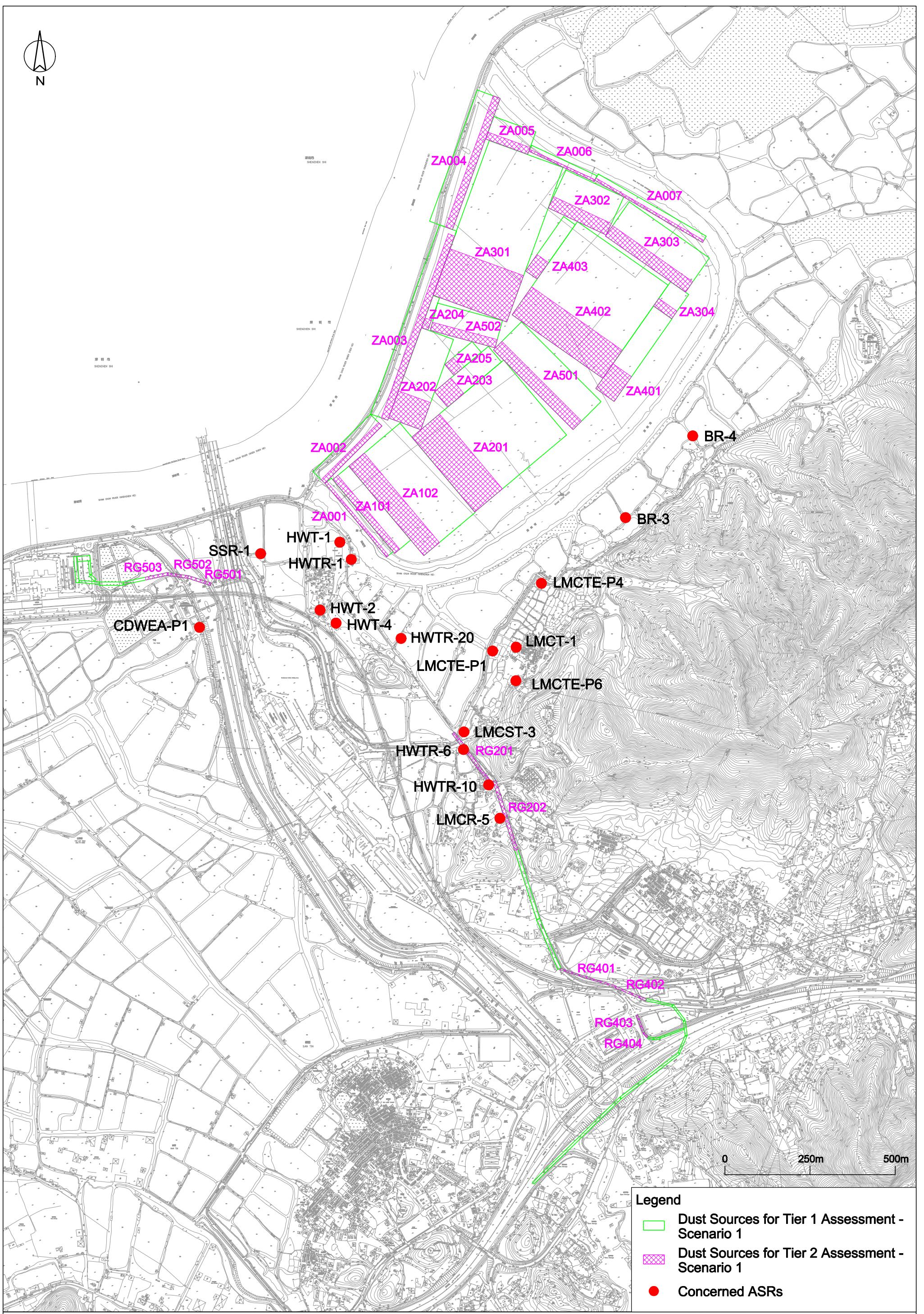


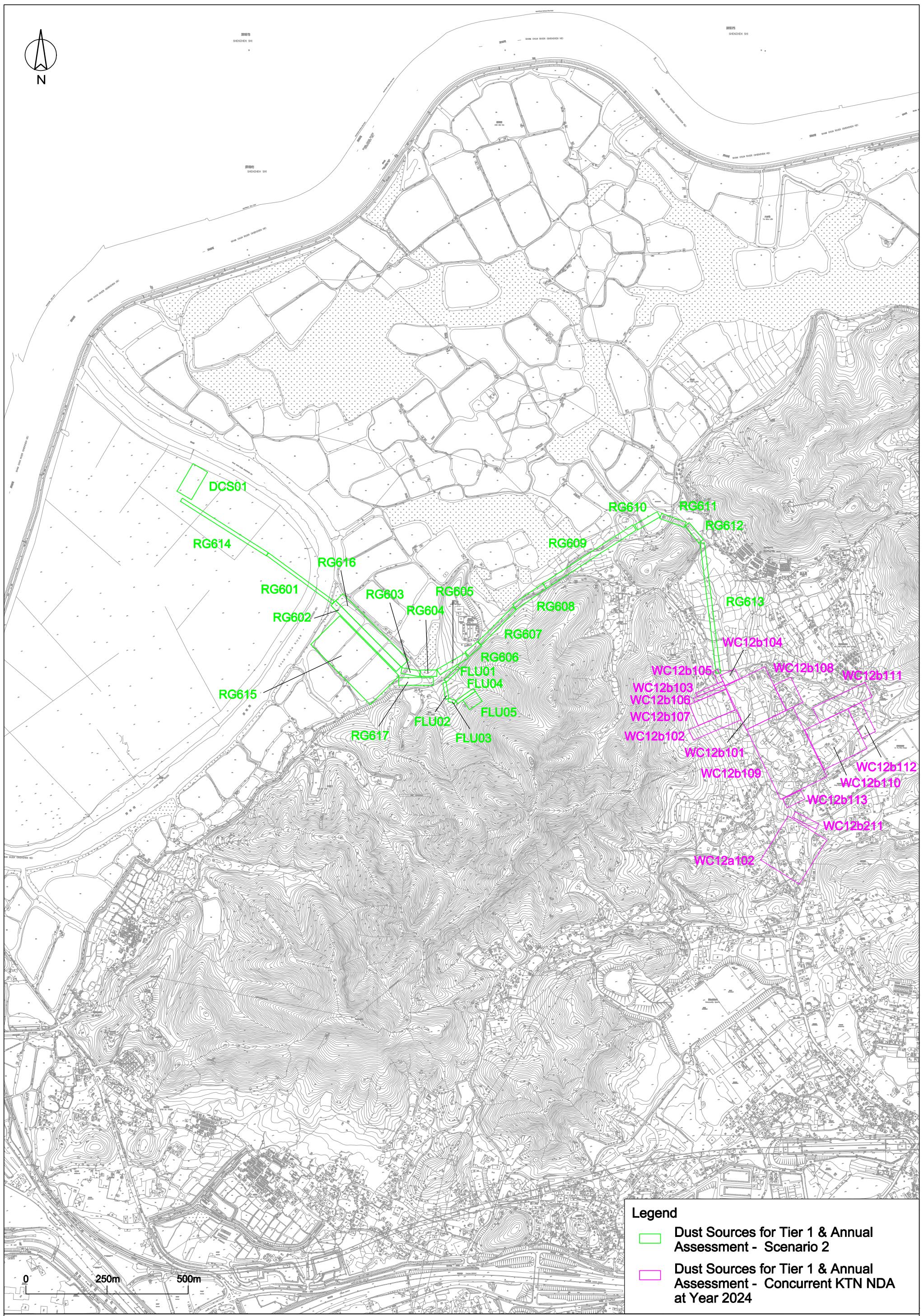
Locations of Dust Emission Source (Lok Ma Chau Loop) –
for Tier 1 & Annual Assessment – Scenario 1

Legend

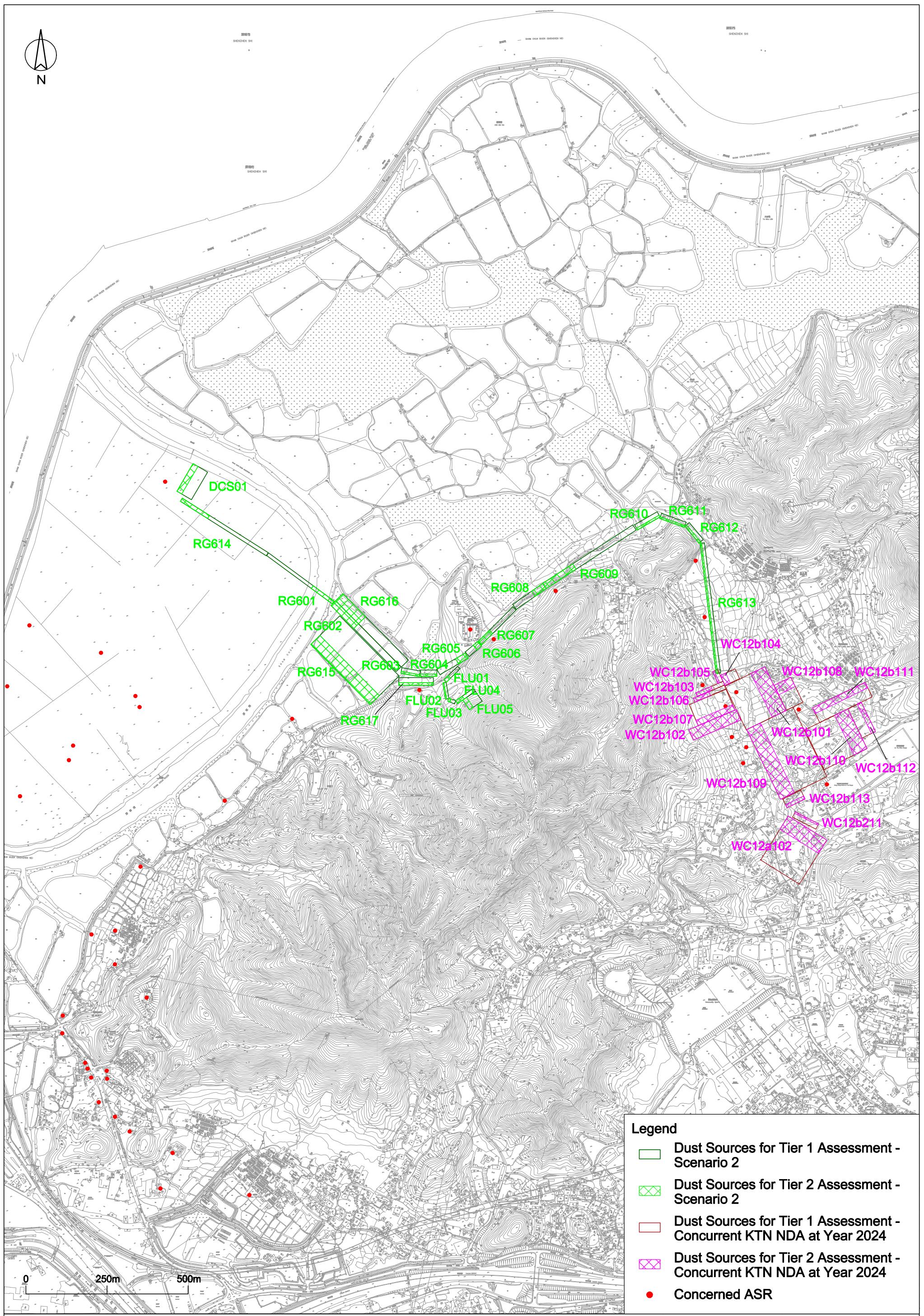
Dust Sources for Tier 1 Assessment -
Scenario 1



Locations of Dust Emission Source (Lok Ma Chau Loop) –
for Tier 2 Assessment – Scenario 1



Locations of Dust Emission Source (Lok Ma Chau Loop) –
for Tier 1 & Annual Assessment – Scenario 2



Locations of Dust Emission Source (Lok Ma Chau Loop) –
for Tier 2 Assessment – Scenario 2

E = 1.2 tons/acre/month of activity (ref : AP-42 S13.2.3.3)
or = 2.69 Mg/hectare/month of activity

Where

E = Emission factor

Assume

For Annual Emission:

Unmitigated (Day Time)

Active operating area (%):	6	refer to Appendix 3-1 for Justification
Mitigation efficiency (%):	0.00%	unmitigated scenario
Working days per month:	24	days
Working hours per day:	8	hours
E (g/sq.m/day):	0.6725	assume 24 working days per month
E (g/sq.m/s):	0.000023351	calculated, 8 working hours per day

For 1-hour an 24-hour Emission:

Unmitigated (Day Time)

Active operating area (%):	100	assumed all works area are in full operation for Tier 1 and Tier 2 assessment
Mitigation efficiency (%):	0.00%	unmitigated scenario
Working days per month:	24	days
Working hours per day:	8	hours
E (g/sq.m/day):	11.2083	assume 24 working days per month
E (g/sq.m/s):	0.000389178	calculated, 8 working hours per day

E = 1.2 tons/acre/month of activity (ref : AP-42 S13.2.3.3)
or = 2.69 Mg/hectare/month of activity

Where

E = Emission factor

Assume

For Annual Emission:

Unmitigated (Day Time)

Active operating area (%):	6	refer to Appendix 3-1 for Justification
Mitigation efficiency (%):	0.00%	unmitigated scenario
Working days per month:	24	days
Working hours per day:	12	hours
E (g/sq.m/day):	0.6725	assume 24 working days per month
E (g/sq.m/s):	0.000015567	calculated, 12 working hours per day

For 1-hour an 24-hour Emission:

Unmitigated (Day Time)

Active operating area (%):	100	assumed all works area are in full operation for Tier 1 and Tier 2 assessment
Mitigation efficiency (%):	0.00%	unmitigated scenario
Working days per month:	24	days
Working hours per day:	12	hours
E (g/sq.m/day):	11.2083	assume 24 working days per month
E (g/sq.m/s):	0.000259452	calculated, 12 working hours per day

$$E = 0.85 \text{ Mg/hectare/yr} \quad (\text{ref : AP-42 S11.9, Table 11.9.4})$$

Where

E = Emission factor

Assume

For Annual Emission:

Unmitigated (Non-working Hours)

Active operating area (%):	6	refer to Appendix 3-1 for Justification
Mitigation efficiency (%)	0.00%	no mitigation measure during non-working hours
E (g/sqm/day)	0.013972603	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	0.000001617	calculated, 24-hour emission

Unmitigated (Day Time)

Active operating area (%):	6	refer to Appendix 3-1 for Justification
Mitigation efficiency (%)	0.00%	unmitigated scenario
E (g/sqm/day)	0.013972603	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	0.000001617	calculated, 24-hour emission

For 1-hour an 24-hour Emission:

Unmitigated (Non-working Hours)

Active operating area (%):	100	assumed all works area are in full operation for Tier 1 and Tier 2 assessment
Mitigation efficiency (%)	0.00%	no mitigation measure during non-working hours
E (g/sqm/day)	0.232876712	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	0.0000026953	calculated, 24-hour emission

Unmitigated (Day Time)

Active operating area (%):	100	assumed all works area are in full operation for Tier 1 and Tier 2 assessment
Mitigation efficiency (%)	0.00%	unmitigated scenario
E (g/sqm/day)	0.232876712	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	0.0000026953	calculated, 24-hour emission

E = 1.2 tons/acre/month of activity (ref : AP-42 S13.2.3.3)
or = 2.69 Mg/hectare/month of activity

Where

E = Emission factor

Assume

For Annual Emission:

Unmitigated (Day Time)

Active operating area (%):	6	adopted from EIA of NENT NDA
Mitigation efficiency (%):	0.00%	unmitigated scenario
Working days per month:	26	days
Working hours per day:	12	hours
E (g/sq.m/day):	0.6208	assume 26 working days per month
E (g/sq.m/s):	0.000014370	calculated, 12 working hours per day

For 1-hour an 24-hour Emission:

Unmitigated (Day Time)

Active operating area (%):	100	assumed all works area are in full operation for unmitigated assessment
Mitigation efficiency (%):	0.00%	unmitigated scenario
Working days per month:	26	days
Working hours per day:	12	hours
E (g/sq.m/day):	10.3462	assume 26 working days per month
E (g/sq.m/s):	0.000239494	calculated, 12 working hours per day

E = 0.85 Mg/hectare/yr (ref : AP-42 S11.9, Table 11.9.4)

Where

E = Emission factor

Assume

For Annual Emission:

Unmitigated (Non-working Hours)

Active operating area (%):	6	adopted from EIA of NENT NDA
Mitigation efficiency (%)	0.00%	no mitigation measure during non-working hours
E (g/sqm/day)	0.013972603	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	0.000001617	calculated, 24-hour emission

Unmitigated (Day Time)

Active operating area (%):	6	adopted from EIA of NENT NDA
Mitigation efficiency (%)	0.00%	unmitigated scenario
E (g/sqm/day)	0.013972603	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	0.000001617	calculated, 24-hour emission

For 1-hour an 24-hour Emission:

Unmitigated (Non-working Hours)

Active operating area (%):	100	assumed all works area are in full operation for unmitigated assessment
Mitigation efficiency (%)	0.00%	no mitigation measure during non-working hours
E (g/sqm/day)	0.232876712	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	0.0000026953	calculated, 24-hour emission

Unmitigated (Day Time)

Active operating area (%):	100	assumed all works area are in full operation for unmitigated assessment
Mitigation efficiency (%)	0.00%	unmitigated scenario
E (g/sqm/day)	0.232876712	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	0.0000026953	calculated, 24-hour emission

E = 1.2 tons/acre/month of activity (ref : AP-42 S13.2.3.3)
or = 2.69 Mg/hectare/month of activity

Where

E = Emission factor

Assume

For Annual Emission:

Mitigated (Day Time)

Active operating area (%):	6	refer to Appendix 3-1 for Justification
Mitigation efficiency (%):	92.10%	watering once per hour
Working days per month:	24	days
Working hours per day:	8	hours
E (g/sq.m/day):	0.0531	assume 24 working days per month
E (g/sq.m/s):	0.000001845	calculated, 8 working hours per day

For 1-hour an 24-hour Emission:

Mitigated (Day Time)

Active operating area (%):	100	assumed all works area are in full operation for Tier 1 and Tier 2 assessment
Mitigation efficiency (%):	92.10%	watering once per hour
Working days per month:	24	days
Working hours per day:	8	hours
E (g/sq.m/day):	0.8855	assume 24 working days per month
E (g/sq.m/s):	0.000030745	calculated, 8 working hours per day

E = 1.2 tons/acre/month of activity (ref : AP-42 S13.2.3.3)
or = 2.69 Mg/hectare/month of activity

Where

E = Emission factor

Assume

For Annual Emission:

Mitigated (Day Time)

Active operating area (%):	6	refer to Appendix 3-1 for Justification
Mitigation efficiency (%):	92.10%	watering once per hour
Working days per month:	24	days
Working hours per day:	12	hours
E (g/sq.m/day):	0.0531	assume 24 working days per month
E (g/sq.m/s):	0.000001230	calculated, 12 working hours per day

For 1-hour an 24-hour Emission:

Mitigated (Day Time)

Active operating area (%):	100	assumed all works area are in full operation for Tier 1 and Tier 2 assessment
Mitigation efficiency (%):	92.10%	watering once per hour
Working days per month:	24	days
Working hours per day:	12	hours
E (g/sq.m/day):	0.8855	assume 24 working days per month
E (g/sq.m/s):	0.000020497	calculated, 12 working hours per day

E = 0.85 Mg/hectare/yr (ref : AP-42 S11.9, Table 11.9.4)

Where

E = Emission factor

Assume

For Annual Emission:

Unmitigated (Non-working Hours)

Active operating area (%):	6	refer to Appendix 3-1 for Justification
Mitigation efficiency (%)	0.00%	no mitigation measure during non-working hours
E (g/sqm/day)	0.013972603	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	0.0000001617	calculated, 24-hour emission

Mitigated (Day Time)

Active operating area (%):	6	refer to Appendix 3-1 for Justification
Mitigation efficiency (%)	92.10%	watering once per hour
E (g/sqm/day)	0.001103836	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	0.0000000128	calculated, 24-hour emission

For 1-hour an 24-hour Emission:

Unmitigated (Non-working Hours)

Active operating area (%):	100	assumed all works area are in full operation for Tier 1 and Tier 2 assessment
Mitigation efficiency (%)	0.00%	no mitigation measure during non-working hours
E (g/sqm/day)	0.232876712	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	0.0000026953	calculated, 24-hour emission

Mitigated (Day Time)

Active operating area (%):	100	assumed all works area are in full operation for Tier 1 and Tier 2 assessment
Mitigation efficiency (%)	92.10%	watering once per hour
E (g/sqm/day)	0.01839726	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	0.0000002129	calculated, 24-hour emission

E = 1.2 tons/acre/month of activity (ref : AP-42 S13.2.3.3)
or = 2.69 Mg/hectare/month of activity

Where

E = Emission factor

Assume

For Annual Emission:

Mitigated (Day Time)

Active operating area (%):	6	adopted from EIA of NENT NDA
Mitigation efficiency (%):	92.10%	watering once per hour
Working days per month:	26	days
Working hours per day:	12	hours
E (g/sq.m/day):	0.0490	assume 26 working days per month
E (g/sq.m/s):	0.000001135	calculated, 12 working hours per day

For 1-hour an 24-hour Emission:

Mitigated (Day Time)

Active operating area (%):	100	assumed all works area are in full operation for Tier 1 and Tier 2 assessment
Mitigation efficiency (%):	92.10%	watering once per hour
Working days per month:	26	days
Working hours per day:	12	hours
E (g/sq.m/day):	0.8173	assume 26 working days per month
E (g/sq.m/s):	0.000018920	calculated, 12 working hours per day

E = 0.85 Mg/hectare/yr (ref : AP-42 S11.9, Table 11.9.4)

Where

E = Emission factor

Assume

For Annual Emission:

Unmitigated (Non-working Hours)

Active operating area (%):	6	adopted from EIA of NENT NDA
Mitigation efficiency (%)	0.00%	no mitigation measure during non-working hours
E (g/sqm/day)	0.013972603	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	0.0000001617	calculated, 24-hour emission

Mitigated (Day Time)

Active operating area (%):	6	adopted from EIA of NENT NDA
Mitigation efficiency (%)	92.10%	watering once per hour
E (g/sqm/day)	0.001103836	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	0.0000000128	calculated, 24-hour emission

For 1-hour an 24-hour Emission:

Unmitigated (Non-working Hours)

Active operating area (%):	100	assumed all works area are in full operation for Tier 1 and Tier 2 assessment
Mitigation efficiency (%)	0.00%	no mitigation measure during non-working hours
E (g/sqm/day)	0.232876712	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	0.0000026953	calculated, 24-hour emission

Mitigated (Day Time)

Active operating area (%):	100	assumed all works area are in full operation for Tier 1 and Tier 2 assessment
Mitigation efficiency (%)	92.10%	watering once per hour
E (g/sqm/day)	0.01839726	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	0.0000002129	calculated, 24-hour emission

Location and Details of Worksites for Fugitive Dust Assessment

LMC Loop 1-hr & 24-hr (Tier 1) TSP concentration calculation - Scenario 1, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)				Working Hour	
		X1 (m)	Y1 (m)	X2 (m)	Y2 (m)			Heavy Construction		Stockpiling			
		Daytime	Non-working Hours	Daytime	Non-working Hours			Daytime	Non-working Hours	Daytime	Non-working Hours		
RG201	Area	826105	841194	190.3	9.7	0	-54.0	0.00038918				0.00000270 0.00000270	
RG202	Area	826233	840927	425.2	9.7	0	-72.0	0.00038918				0.00000270 0.00000270	
RG203	Area	826328	840651	158.4	10.2	0	-67.0	0.00038918				0.00000270 0.00000270	
RG401	Area	826443	840552	171.1	4.4	0	-17.0	0.00025945				0.00000270 0.00000270	
RG402	Area	826569	840506	96.7	5.7	0	-23.0	0.00025945				0.00000270 0.00000270	
RG403	Area	826652	840479	77.7	5.7	0	-13.0	0.00025945				0.00000270 0.00000270	
RG404	Area	826709	840449	55.3	5.7	0	-53.0	0.00025945				0.00000270 0.00000270	
RG405	Area	826729	840404	42.3	5.7	0	-83.0	0.00025945				0.00000270 0.00000270	
RG406	Area	826721	840357	5.6	54.2	0	-23.0	0.00025945				0.00000270 0.00000270	
RG407	Area	826625	840265	215.1	6.5	0	37.0	0.00025945				0.00000270 0.00000270	
RG408	Area	826410	840074	357.4	6.5	0	44.0	0.00025945				0.00000270 0.00000270	
RG409	Area	826597	840417	55.3	5.7	0	-69.0	0.00025945				0.00000270 0.00000270	
RG410	Area	826613	840384	16.1	5.7	0	-47.0	0.00025945				0.00000270 0.00000270	
RG411	Area	826627	840375	16.1	5.7	0	-17.0	0.00025945				0.00000270 0.00000270	
RG412	Area	826645	840374	17.6	5.7	0	3.0	0.00025945				0.00000270 0.00000270	
RG413	Area	826690	840389	75.1	4.5	0	20.0	0.00025945				0.00000270 0.00000270	
RG501	Area	825303	841718	70.0	8.2	0	-18.0	0.00038918				0.00000270 0.00000270	
RG502	Area	825240	841733	58.5	8.2	0	-8.0	0.00038918				0.00000270 0.00000270	
RG503	Area	825145	841724	8.2	133.6	0	-78.0	0.00038918				0.00000270 0.00000270	
RG504	Area	825044	841709	70.7	10.0	0	0.0	0.00038918				0.00000270 0.00000270	
RG505	Area	824979	841713	57.5	6.7	0	-5.0	0.00038918				0.00000270 0.00000270	
RG506	Area	824942	841750	9.3	76.5	0	5.0	0.00038918				0.00000270 0.00000270	
RG507	Area	824963	841782	38.0	15.2	0	5.0	0.00038918				0.00000270 0.00000270	
RG508	Area	824981	841756	5.7	40.3	0	5.0	0.00038918				0.00000270 0.00000270	
RG509	Area	824990	841726	7.6	20.1	0	45.0	0.00038918				0.00000270 0.00000270	
ZA001	Area	825771	841903	281.5	24.5	0	-50.0	0.00038918				0.00000270 0.00000270	
ZA002	Area	825737	842105	48.6	237.7	0	-45.0	0.00038918				0.00000270 0.00000270	
ZA003	Area	825931	842475	54.1	590.9	0	-20.0	0.00038918				0.00000270 0.00000270	
ZA004	Area	826082	842953	71.6	410.0	0	-20.0	0.00038918				0.00000270 0.00000270	
ZA005	Area	826217	843024	131.1	70.3	0	-20.0	0.00038918				0.00000270 0.00000270	
ZA006	Area	826370	842942	210.8	19.3	0	-25.0	0.00038918				0.00000270 0.00000270	
ZA007	Area	826627	842811	365.6	21.3	0	-30.0	0.00038918				0.00000270 0.00000270	
ZA101	Area	825809	841926	282.9	61.3	0	-50.0	0.00038918				0.00000270 0.00000270	
ZA102	Area	825927	841986	342.8	196.6	0	-50.0	0.00038918				0.00000270 0.00000270	
ZA201	Area	826154	842142	287.0	352.0	0	-50.0	0.00038918				0.00000270 0.00000270	
ZA202	Area	825954	842310	100.2	281.6	0	-20.0	0.00038918				0.00000270 0.00000270	
ZA203	Area	826091	842316	59.5	206.2	0	-50.0	0.00038918				0.00000270 0.00000270	
ZA204	Area	825981	842504	19.8	100.7	0	-20.0	0.00038918				0.00000270 0.00000270	
ZA205	Area	826077	842370	41.7	104.6	0	-50.0	0.00038918				0.00000270 0.00000270	
ZA301	Area	826179	842743	230.3	482.8	0	-20.0	0.00038918				0.00000270 0.00000270	
ZA302	Area	826438	842828	187.2	123.2	0	-25.0	0.00038918				0.00000270 0.00000270	
ZA303	Area	826647	842697	287.2	122.2	0	-35.0	0.00038918				0.00000270 0.00000270	
ZA304	Area	826687	842541	65.4	87.1	0	-35.0	0.00038918				0.00000270 0.00000270	

Location and Details of Worksites for Fugitive Dust Assessment

LMC Loop Annual TSP concentration calculation - Scenario 1, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)				Working Hour		
		X1 (m)	Y1 (m)	X2 (m)	Y2 (m)			Heavy Construction		Stockpiling				
								Daytime	Non-working Hours	Daytime	Non-working Hours			
RG201	Area	826105	841194	190.3	9.7	0	-54.0	0.00002335				0.00000162	0.00000162	0900-1700
RG202	Area	826233	840927	425.2	9.7	0	-72.0	0.00002335				0.00000162	0.00000162	0900-1700
RG203	Area	826328	840651	158.4	10.2	0	-67.0	0.00002335				0.00000162	0.00000162	0900-1700
RG401	Area	826443	840552	171.1	4.4	0	-17.0	0.00001557				0.00000162	0.00000162	0700-1900
RG402	Area	826569	840506	96.7	5.7	0	-23.0	0.00001557				0.00000162	0.00000162	0700-1900
RG403	Area	826652	840479	77.7	5.7	0	-13.0	0.00001557				0.00000162	0.00000162	0700-1900
RG404	Area	826709	840449	55.3	5.7	0	-53.0	0.00001557				0.00000162	0.00000162	0700-1900
RG405	Area	826729	840404	42.3	5.7	0	-83.0	0.00001557				0.00000162	0.00000162	0700-1900
RG406	Area	826721	840357	5.6	54.2	0	-23.0	0.00001557				0.00000162	0.00000162	0700-1900
RG407	Area	826625	840265	215.1	6.5	0	37.0	0.00001557				0.00000162	0.00000162	0700-1900
RG408	Area	826410	840074	357.4	6.5	0	44.0	0.00001557				0.00000162	0.00000162	0700-1900
RG409	Area	826597	840417	55.3	5.7	0	-69.0	0.00001557				0.00000162	0.00000162	0700-1900
RG410	Area	826613	840384	16.1	5.7	0	-47.0	0.00001557				0.00000162	0.00000162	0700-1900
RG411	Area	826627	840375	16.1	5.7	0	-17.0	0.00001557				0.00000162	0.00000162	0700-1900
RG412	Area	826645	840374	17.6	5.7	0	3.0	0.00001557				0.00000162	0.00000162	0700-1900
RG413	Area	826690	840389	75.1	4.5	0	20.0	0.00001557				0.00000162	0.00000162	0700-1900
RG501	Area	825303	841718	70.0	8.2	0	-18.0	0.00002335				0.00000162	0.00000162	0900-1700
RG502	Area	825240	841733	58.5	8.2	0	-8.0	0.00002335				0.00000162	0.00000162	0900-1700
RG503	Area	825145	841724	8.2	133.6	0	-78.0	0.00002335				0.00000162	0.00000162	0900-1700
RG504	Area	825044	841709	70.7	10.0	0	0.0	0.00002335				0.00000162	0.00000162	0900-1700
RG505	Area	824979	841713	57.5	6.7	0	-5.0	0.00002335				0.00000162	0.00000162	0900-1700
RG506	Area	824942	841750	9.3	76.5	0	5.0	0.00002335				0.00000162	0.00000162	0900-1700
RG507	Area	824963	841782	38.0	15.2	0	5.0	0.00002335				0.00000162	0.00000162	0900-1700
RG508	Area	824981	841756	5.7	40.3	0	5.0	0.00002335				0.00000162	0.00000162	0900-1700
RG509	Area	824990	841726	7.6	20.1	0	45.0	0.00002335				0.00000162	0.00000162	0900-1700
ZA001	Area	825771	841903	281.5	24.5	0	-50.0	0.00002335				0.00000162	0.00000162	0900-1700
ZA002	Area	825737	842105	48.6	237.7	0	-45.0	0.00002335				0.00000162	0.00000162	0900-1700
ZA003	Area	825931	842475	54.1	590.9	0	-20.0	0.00002335				0.00000162	0.00000162	0900-1700
ZA004	Area	826082	842953	71.6	410.0	0	-20.0	0.00002335				0.00000162	0.00000162	0900-1700
ZA005	Area	826217	843024	131.1	70.3	0	-20.0	0.00002335				0.00000162	0.00000162	0900-1700
ZA006	Area	826370	842942	210.8	19.3	0	-25.0	0.00002335				0.00000162	0.00000162	0900-1700
ZA007	Area	826627	842811	365.6	21.3	0	-30.0	0.00002335				0.00000162	0.00000162	0900-1700
ZA101	Area	825809	841926	282.9	61.3	0	-50.0	0.00002335				0.00000162	0.00000162	0900-1700
ZA102	Area	825927	841986	342.8	196.6	0	-50.0	0.00002335				0.00000162	0.00000162	0900-1700
ZA201	Area	826154	842142	287.0	352.0	0	-50.0	0.00002335				0.00000162	0.00000162	0900-1700
ZA202	Area	825954	842310	100.2	281.6	0	-20.0	0.00002335				0.00000162	0.00000162	0900-1700
ZA203	Area	826091	842316	59.5	206.2	0	-50.0	0.00002335				0.00000162	0.00000162	0900-1700
ZA204	Area	825981	842504	19.8	100.7	0	-20.0	0.00002335				0.00000162	0.00000162	0900-1700
ZA205	Area	826077	842370	41.7	104.6	0	-50.0	0.00002335				0.00000162	0.00000162	0900-1700
ZA301	Area	826179	842743	230.3	482.8	0	-20.0	0.00002335				0.00000162	0.00000162	0900-1700
ZA302	Area	826438	842828	187.2	123.2	0	-25.0	0.00002335				0.00000162	0.00000162	0900-1700
ZA303	Area	826647	842697	287.2	122.2	0	-35.0	0.00002335				0.00000162	0.00000162	0900-1700
ZA304	Area	826687	842541	65.4	87.1	0	-35.0	0.00002335				0.00000162	0.00000162	0900-1700

Location and Details of Worksites for Fugitive Dust Assessment

LMC Loop 1-hr & 24-hr TSP concentration calculation - Scenario 2, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)				Working Hour		
		X1	Y1	X2	Y2			Daytime	Non-working Hours	Daytime	Non-working Hours			
		(m)	(m)	(m)	(m)	(m)	(deg / m)	Daytime	Non-working Hours	Daytime	Non-working Hours			
DCS01	Area	826458	842837	49.3	93.4	0	-30.0	0.00038918				0.0000270	0.0000270	0900-1700
FLU01	Area	827219	842273	10.4	56.5	0	-45.0	0.00038918				0.0000270	0.0000270	0900-1700
FLU02	Area	827201	842225	9.8	47.8	0	10.0	0.00038918				0.0000270	0.0000270	0900-1700
FLU03	Area	827218	842195	9.8	21.2	0	70.0	0.00038918				0.0000270	0.0000270	0900-1700
FLU04	Area	827259	842209	10.3	63.0	0	-55.0	0.00038918				0.0000270	0.0000270	0900-1700
FLU05	Area	827279	842196	34.9	44.8	0	-55.0	0.00038918				0.0000270	0.0000270	0900-1700
RG601	Area	826775	842554	238.7	9.6	0	-36.0	0.00038918				0.0000270	0.0000270	0900-1700
RG602	Area	826967	842385	271.6	19.5	0	-45.0	0.00038918				0.0000270	0.0000270	0900-1700
RG603	Area	827098	842279	54.9	16.5	0	-10.0	0.00038918				0.0000270	0.0000270	0900-1700
RG604	Area	827150	842276	18.7	48.4	0	-90.0	0.00038918				0.0000270	0.0000270	0900-1700
RG605	Area	827221	842303	17.6	95.8	0	-60.0	0.00038918				0.0000270	0.0000270	0900-1700
RG606	Area	827282	842347	17.6	47.6	0	-50.0	0.00038918				0.0000270	0.0000270	0900-1700
RG607	Area	827351	842415	13.5	144.6	0	-45.0	0.00038918				0.0000270	0.0000270	0900-1700
RG608	Area	827446	842501	18.3	107.1	0	-55.0	0.00038918				0.0000270	0.0000270	0900-1700
RG609	Area	827622	842617	18.2	313.9	0	-57.0	0.00038918				0.0000270	0.0000270	0900-1700
RG610	Area	827791	842722	17.5	76.3	0	-60.0	0.00038918				0.0000270	0.0000270	0900-1700
RG611	Area	827866	842724	76.3	15.8	0	-20.0	0.00038918				0.0000270	0.0000270	0900-1700
RG612	Area	827928	842687	16.5	64.1	0	40.0	0.00038918				0.0000270	0.0000270	0900-1700
RG613	Area	827976	842467	384.4	12.9	0	-83.0	0.00038918				0.0000270	0.0000270	0900-1700
RG614	Area	826552	842704	297.9	10.8	0	-32.0	0.00038918				0.0000270	0.0000270	0900-1700
RG615	Area	826935	842314	247.4	119.2	0	-45.0	0.00038918				0.0000270	0.0000270	0900-1700
RG616	Area	826985	842401	273.1	29.4	0	-45.0	0.00038918				0.0000270	0.0000270	0900-1700
RG617	Area	827114	842252	22.7	101.6	0	-90.0	0.00038918				0.0000270	0.0000270	0900-1700
WC12a102	Area	828220	841758	133.0	151.9	0	-32.0	0.00023949				0.0000270	0.0000270	0700-1900
WC12b101	Area	828108	842203	142.3	129.8	0	-64.0	0.00023949				0.0000270	0.0000270	0700-1900
WC12b102	Area	827989	842125	33.4	150.8	0	-67.0	0.00023949				0.0000270	0.0000270	0700-1900
WC12b103	Area	827975	842230	11.7	87.0	0	-67.0	0.00023949				0.0000270	0.0000270	0700-1900
WC12b104	Area	828033	842265	31.8	47.2	0	-66.0	0.00023949				0.0000270	0.0000270	0700-1900
WC12b105	Area	827997	842267	38.0	15.7	0	-66.0	0.00023949				0.0000270	0.0000270	0700-1900
WC12b106	Area	827974	842216	11.7	99.6	0	-67.0	0.00023949				0.0000270	0.0000270	0700-1900
WC12b107	Area	827981	842176	66.2	116.6	0	-67.0	0.00023949				0.0000270	0.0000270	0700-1900
WC12b108	Area	828205	842216	81.4	53.9	0	-64.0	0.00023949				0.0000270	0.0000270	0700-1900
WC12b109	Area	828199	842042	226.8	151.0	0	-64.0	0.00023949				0.0000270	0.0000270	0700-1900
WC12b110	Area	828343	842083	129.3	140.3	0	-64.0	0.00023949				0.0000270	0.0000270	0700-1900
WC12b111	Area	828362	842191	47.4	171.1	0	-64.0	0.00023949				0.0000270	0.0000270	0700-1900

Location and Details of Worksites for Fugitive Dust Assessment

LMC Loop Annual TSP concentration calculation - Scenario 2, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)				Working Hour	
		X1	Y1	X2	Y2			Daytime	Non-working Hours	Daytime	Non-working Hours		
		(m)	(m)	(m)	(m)	(m)	(deg / m)	Daytime	Non-working Hours	Daytime	Non-working Hours		
DCS01	Area	826458	842837	49.3	93.4	0	-30.0	0.00002335			0.000000162	0.000000162	0900-1700
FLU01	Area	827219	842273	10.4	56.5	0	-45.0	0.00002335			0.000000162	0.000000162	0900-1700
FLU02	Area	827201	842225	9.8	47.8	0	10.0	0.00002335			0.000000162	0.000000162	0900-1700
FLU03	Area	827218	842195	9.8	21.2	0	70.0	0.00002335			0.000000162	0.000000162	0900-1700
FLU04	Area	827259	842209	10.3	63.0	0	-55.0	0.00002335			0.000000162	0.000000162	0900-1700
FLU05	Area	827279	842196	34.9	44.8	0	-55.0	0.00002335			0.000000162	0.000000162	0900-1700
RG601	Area	826775	842554	238.7	9.6	0	-36.0	0.00002335			0.000000162	0.000000162	0900-1700
RG602	Area	826967	842385	271.6	19.5	0	-45.0	0.00002335			0.000000162	0.000000162	0900-1700
RG603	Area	827098	842279	54.9	16.5	0	-10.0	0.00002335			0.000000162	0.000000162	0900-1700
RG604	Area	827150	842276	18.7	48.4	0	-90.0	0.00002335			0.000000162	0.000000162	0900-1700
RG605	Area	827221	842303	17.6	95.8	0	-60.0	0.00002335			0.000000162	0.000000162	0900-1700
RG606	Area	827282	842347	17.6	47.6	0	-50.0	0.00002335			0.000000162	0.000000162	0900-1700
RG607	Area	827351	842415	13.5	144.6	0	-45.0	0.00002335			0.000000162	0.000000162	0900-1700
RG608	Area	827446	842501	18.3	107.1	0	-55.0	0.00002335			0.000000162	0.000000162	0900-1700
RG609	Area	827622	842617	18.2	313.9	0	-57.0	0.00002335			0.000000162	0.000000162	0900-1700
RG610	Area	827791	842722	17.5	76.3	0	-60.0	0.00002335			0.000000162	0.000000162	0900-1700
RG611	Area	827866	842724	76.3	15.8	0	-20.0	0.00002335			0.000000162	0.000000162	0900-1700
RG612	Area	827928	842687	16.5	64.1	0	40.0	0.00002335			0.000000162	0.000000162	0900-1700
RG613	Area	827976	842467	384.4	12.9	0	-83.0	0.00002335			0.000000162	0.000000162	0900-1700
RG614	Area	826552	842704	297.9	10.8	0	-32.0	0.00002335			0.000000162	0.000000162	0900-1700
RG615	Area	826935	842314	247.4	119.2	0	-45.0	0.00002335			0.000000162	0.000000162	0900-1700
RG616	Area	826985	842401	273.1	29.4	0	-45.0	0.00002335			0.000000162	0.000000162	0900-1700
RG617	Area	827114	842252	22.7	101.6	0	-90.0	0.00002335			0.000000162	0.000000162	0900-1700
WC12a102	Area	828220	841758	133.0	151.9	0	-32.0	0.00001437			0.000000162	0.000000162	0700-1900
WC12b101	Area	828108	842203	142.3	129.8	0	-64.0	0.00001437			0.000000162	0.000000162	0700-1900
WC12b102	Area	827989	842125	33.4	150.8	0	-67.0	0.00001437			0.000000162	0.000000162	0700-1900
WC12b103	Area	827975	842230	11.7	87.0	0	-67.0	0.00001437			0.000000162	0.000000162	0700-1900
WC12b104	Area	828033	842265	31.8	47.2	0	-66.0	0.00001437			0.000000162	0.000000162	0700-1900
WC12b105	Area	827997	842267	38.0	15.7	0	-66.0	0.00001437			0.000000162	0.000000162	0700-1900
WC12b106	Area	827974	842216	11.7	99.6	0	-67.0	0.00001437			0.000000162	0.000000162	0700-1900
WC12b107	Area	827981	842176	66.2	116.6	0	-67.0	0.00001437			0.000000162	0.000000162	0700-1900
WC12b108	Area	828205	842216	81.4	53.9	0	-64.0	0.00001437			0.000000162	0.000000162	0700-1900
WC12b109	Area	828199	842042	226.8	151.0	0	-64.0	0.00001437			0.000000162	0.000000162	0700-1900
WC12b110	Area	828343	842083	129.3	140.3	0	-64.0	0.00001437			0.000000162	0.000000162	0700-1900
WC12b111	Area	828362	842191	47.4	171.1	0	-64.0	0.00001437			0.000000162	0.000000162	0700-1900

Location and Details of Worksites for Fugitive Dust Assessment

LMC Loop 1-hr & 24-hr (Tier 1) TSP concentration calculation - Scenario 1, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)				Working Hour	
		X1 (m)	Y1 (m)	X2 (m)	Y2 (m)			Heavy Construction		Stockpiling			
		Daytime	Non-working Hours	Daytime	Non-working Hours			Daytime	Non-working Hours	Daytime	Non-working Hours		
RG201	Area	826105	841194	190.3	9.7	0	-54.0	0.00003075				0.0000021 0.0000270	
RG202	Area	826233	840927	425.2	9.7	0	-72.0	0.00003075				0.0000021 0.0000270	
RG203	Area	826328	840651	158.4	10.2	0	-67.0	0.00003075				0.0000021 0.0000270	
RG401	Area	826443	840552	171.1	4.4	0	-17.0	0.00002050				0.0000021 0.0000270	
RG402	Area	826569	840506	96.7	5.7	0	-23.0	0.00002050				0.0000021 0.0000270	
RG403	Area	826652	840479	77.7	5.7	0	-13.0	0.00002050				0.0000021 0.0000270	
RG404	Area	826709	840449	55.3	5.7	0	-53.0	0.00002050				0.0000021 0.0000270	
RG405	Area	826729	840404	42.3	5.7	0	-83.0	0.00002050				0.0000021 0.0000270	
RG406	Area	826721	840357	5.6	54.2	0	-23.0	0.00002050				0.0000021 0.0000270	
RG407	Area	826625	840265	215.1	6.5	0	37.0	0.00002050				0.0000021 0.0000270	
RG408	Area	826410	840074	357.4	6.5	0	44.0	0.00002050				0.0000021 0.0000270	
RG409	Area	826597	840417	55.3	5.7	0	-69.0	0.00002050				0.0000021 0.0000270	
RG410	Area	826613	840384	16.1	5.7	0	-47.0	0.00002050				0.0000021 0.0000270	
RG411	Area	826627	840375	16.1	5.7	0	-17.0	0.00002050				0.0000021 0.0000270	
RG412	Area	826645	840374	17.6	5.7	0	3.0	0.00002050				0.0000021 0.0000270	
RG413	Area	826690	840389	75.1	4.5	0	20.0	0.00002050				0.0000021 0.0000270	
RG501	Area	825303	841718	70.0	8.2	0	-18.0	0.00003075				0.0000021 0.0000270	
RG502	Area	825240	841733	58.5	8.2	0	-8.0	0.00003075				0.0000021 0.0000270	
RG503	Area	825145	841724	8.2	133.6	0	-78.0	0.00003075				0.0000021 0.0000270	
RG504	Area	825044	841709	70.7	10.0	0	0.0	0.00003075				0.0000021 0.0000270	
RG505	Area	824979	841713	57.5	6.7	0	-5.0	0.00003075				0.0000021 0.0000270	
RG506	Area	824942	841750	9.3	76.5	0	5.0	0.00003075				0.0000021 0.0000270	
RG507	Area	824963	841782	38.0	15.2	0	5.0	0.00003075				0.0000021 0.0000270	
RG508	Area	824981	841756	5.7	40.3	0	5.0	0.00003075				0.0000021 0.0000270	
RG509	Area	824990	841726	7.6	20.1	0	45.0	0.00003075				0.0000021 0.0000270	
ZA001	Area	825771	841903	281.5	24.5	0	-50.0	0.00003075				0.0000021 0.0000270	
ZA002	Area	825737	842105	48.6	237.7	0	-45.0	0.00003075				0.0000021 0.0000270	
ZA003	Area	825931	842475	54.1	590.9	0	-20.0	0.00003075				0.0000021 0.0000270	
ZA004	Area	826082	842953	71.6	410.0	0	-20.0	0.00003075				0.0000021 0.0000270	
ZA005	Area	826217	843024	131.1	70.3	0	-20.0	0.00003075				0.0000021 0.0000270	
ZA006	Area	826370	842942	210.8	19.3	0	-25.0	0.00003075				0.0000021 0.0000270	
ZA007	Area	826627	842811	365.6	21.3	0	-30.0	0.00003075				0.0000021 0.0000270	
ZA101	Area	825809	841926	282.9	61.3	0	-50.0	0.00003075				0.0000021 0.0000270	
ZA102	Area	825927	841986	342.8	196.6	0	-50.0	0.00003075				0.0000021 0.0000270	
ZA201	Area	826154	842142	287.0	352.0	0	-50.0	0.00003075				0.0000021 0.0000270	
ZA202	Area	825954	842310	100.2	281.6	0	-20.0	0.00003075				0.0000021 0.0000270	
ZA203	Area	826091	842316	59.5	206.2	0	-50.0	0.00003075				0.0000021 0.0000270	
ZA204	Area	825981	842504	19.8	100.7	0	-20.0	0.00003075				0.0000021 0.0000270	
ZA205	Area	826077	842370	41.7	104.6	0	-50.0	0.00003075				0.0000021 0.0000270	
ZA301	Area	826179	842743	230.3	482.8	0	-20.0	0.00003075				0.0000021 0.0000270	
ZA302	Area	826438	842828	187.2	123.2	0	-25.0	0.00003075				0.0000021 0.0000270	
ZA303	Area	826647	842697	287.2	122.2	0	-35.0	0.00003075				0.0000021 0.0000270	
ZA304	Area	826687	842541	65.4	87.1	0	-35.0	0.00003075				0.0000021 0.0000270	

Location and Details of Worksites for Fugitive Dust Assessment

LMC Loop 1-hr & 24-hr (Tier 2) TSP concentration calculation - Scenario 1, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)				Working Hour	
		X1 (m)	Y1 (m)	X2 (m)	Y2 (m)			Heavy Construction		Stockpiling			
		Daytime	Non-working Hours	Daytime	Non-working Hours			Daytime	Non-working Hours	Daytime	Non-working Hours		
RG201	Area	826105	841194	190.3	9.7	0	-54.0	0.00003075				0.0000021 0.00000270	0900-1700
RG202	Area	826201	841028	212.6	9.7	0	-72.0	0.00003075				0.0000021 0.00000270	0900-1700
RG401	Area	826443	840552	171.1	4.4	0	-17.0	0.00002050				0.0000021 0.00000270	0700-1900
RG402	Area	826569	840506	96.7	5.7	0	-23.0	0.00002050				0.0000021 0.00000270	0700-1900
RG403	Area	826597	840417	55.3	5.7	0	-69.0	0.00002050				0.0000021 0.00000270	0700-1900
RG404	Area	826613	840384	16.1	5.7	0	-47.0	0.00002050				0.0000021 0.00000270	0700-1900
RG501	Area	825303	841718	70.0	8.2	0	-18.0	0.00003075				0.0000021 0.00000270	0900-1700
RG502	Area	825240	841733	58.5	8.2	0	-8.0	0.00003075				0.0000021 0.00000270	0900-1700
RG503	Area	825177	841731	8.2	66.8	0	-78.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA001	Area	825765	841897	281.5	7.5	0	-50.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA002	Area	825749	842093	14.6	237.7	0	-45.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA003	Area	825944	842462	20.5	575.2	0	-20.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA004	Area	826106	842945	21.6	410.0	0	-20.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA005	Area	826208	843001	131.1	21.3	0	-20.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA006	Area	826367	842936	210.8	6.3	0	-25.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA007	Area	826623	842805	365.6	7.3	0	-30.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA101	Area	825793	841912	282.9	19.3	0	-50.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA102	Area	825874	841942	342.8	59.6	0	-50.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA201	Area	826059	842063	287.0	106.0	0	-50.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA202	Area	825920	842218	100.2	84.6	0	-20.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA203	Area	826036	842270	59.5	62.2	0	-50.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA204	Area	825969	842471	19.8	30.7	0	-20.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA205	Area	826049	842346	41.7	31.6	0	-50.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA301	Area	826121	842584	230.3	144.8	0	-20.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA302	Area	826419	842789	187.2	37.2	0	-25.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA303	Area	826623	842662	287.2	37.2	0	-35.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA304	Area	826670	842516	65.4	27.1	0	-35.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA401	Area	826519	842299	66.0	88.8	0	-35.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA402	Area	826382	842446	325.1	99.9	0	-35.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA403	Area	826294	842639	41.5	58.9	0	-35.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA501	Area	826295	842291	330.5	35.1	0	-45.0	0.00003075				0.0000021 0.00000270	0900-1700
ZA502	Area	826079	842439	196.8	24.9	0	-15.0	0.00003075				0.0000021 0.00000270	0900-1700

Location and Details of Worksites for Fugitive Dust Assessment

LMC Loop Annual TSP concentration calculation - Scenario 1, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)				Working Hour	
		X1 (m)	Y1 (m)	X2 (m)	Y2 (m)			Heavy Construction		Stockpiling			
		Daytime	Non-working Hours	Daytime	Non-working Hours			Daytime	Non-working Hours	Daytime	Non-working Hours		
RG201	Area	826105	841194	190.3	9.7	0	-54.0	0.00000184				0.00000013 0.00000162	
RG202	Area	826233	840927	425.2	9.7	0	-72.0	0.00000184				0.00000013 0.00000162	
RG203	Area	826328	840651	158.4	10.2	0	-67.0	0.00000184				0.00000013 0.00000162	
RG401	Area	826443	840552	171.1	4.4	0	-17.0	0.00000123				0.00000013 0.00000162	
RG402	Area	826569	840506	96.7	5.7	0	-23.0	0.00000123				0.00000013 0.00000162	
RG403	Area	826652	840479	77.7	5.7	0	-13.0	0.00000123				0.00000013 0.00000162	
RG404	Area	826709	840449	55.3	5.7	0	-53.0	0.00000123				0.00000013 0.00000162	
RG405	Area	826729	840404	42.3	5.7	0	-83.0	0.00000123				0.00000013 0.00000162	
RG406	Area	826721	840357	5.6	54.2	0	-23.0	0.00000123				0.00000013 0.00000162	
RG407	Area	826625	840265	215.1	6.5	0	37.0	0.00000123				0.00000013 0.00000162	
RG408	Area	826410	840074	357.4	6.5	0	44.0	0.00000123				0.00000013 0.00000162	
RG409	Area	826597	840417	55.3	5.7	0	-69.0	0.00000123				0.00000013 0.00000162	
RG410	Area	826613	840384	16.1	5.7	0	-47.0	0.00000123				0.00000013 0.00000162	
RG411	Area	826627	840375	16.1	5.7	0	-17.0	0.00000123				0.00000013 0.00000162	
RG412	Area	826645	840374	17.6	5.7	0	3.0	0.00000123				0.00000013 0.00000162	
RG413	Area	826690	840389	75.1	4.5	0	20.0	0.00000123				0.00000013 0.00000162	
RG501	Area	825303	841718	70.0	8.2	0	-18.0	0.00000184				0.00000013 0.00000162	
RG502	Area	825240	841733	58.5	8.2	0	-8.0	0.00000184				0.00000013 0.00000162	
RG503	Area	825145	841724	8.2	133.6	0	-78.0	0.00000184				0.00000013 0.00000162	
RG504	Area	825044	841709	70.7	10.0	0	0.0	0.00000184				0.00000013 0.00000162	
RG505	Area	824979	841713	57.5	6.7	0	-5.0	0.00000184				0.00000013 0.00000162	
RG506	Area	824942	841750	9.3	76.5	0	5.0	0.00000184				0.00000013 0.00000162	
RG507	Area	824963	841782	38.0	15.2	0	5.0	0.00000184				0.00000013 0.00000162	
RG508	Area	824981	841756	5.7	40.3	0	5.0	0.00000184				0.00000013 0.00000162	
RG509	Area	824990	841726	7.6	20.1	0	45.0	0.00000184				0.00000013 0.00000162	
ZA001	Area	825771	841903	281.5	24.5	0	-50.0	0.00000184				0.00000013 0.00000162	
ZA002	Area	825737	842105	48.6	237.7	0	-45.0	0.00000184				0.00000013 0.00000162	
ZA003	Area	825931	842475	54.1	590.9	0	-20.0	0.00000184				0.00000013 0.00000162	
ZA004	Area	826082	842953	71.6	410.0	0	-20.0	0.00000184				0.00000013 0.00000162	
ZA005	Area	826217	843024	131.1	70.3	0	-20.0	0.00000184				0.00000013 0.00000162	
ZA006	Area	826370	842942	210.8	19.3	0	-25.0	0.00000184				0.00000013 0.00000162	
ZA007	Area	826627	842811	365.6	21.3	0	-30.0	0.00000184				0.00000013 0.00000162	
ZA101	Area	825809	841926	282.9	61.3	0	-50.0	0.00000184				0.00000013 0.00000162	
ZA102	Area	825927	841986	342.8	196.6	0	-50.0	0.00000184				0.00000013 0.00000162	
ZA201	Area	826154	842142	287.0	352.0	0	-50.0	0.00000184				0.00000013 0.00000162	
ZA202	Area	825954	842310	100.2	281.6	0	-20.0	0.00000184				0.00000013 0.00000162	
ZA203	Area	826091	842316	59.5	206.2	0	-50.0	0.00000184				0.00000013 0.00000162	
ZA204	Area	825981	842504	19.8	100.7	0	-20.0	0.00000184				0.00000013 0.00000162	
ZA205	Area	826077	842370	41.7	104.6	0	-50.0	0.00000184				0.00000013 0.00000162	
ZA301	Area	826179	842743	230.3	482.8	0	-20.0	0.00000184				0.00000013 0.00000162	
ZA302	Area	826438	842828	187.2	123.2	0	-25.0	0.00000184				0.00000013 0.00000162	
ZA303	Area	826647	842697	287.2	122.2	0	-35.0	0.00000184				0.00000013 0.00000162	
ZA304	Area	826687	842541	65.4	87.1	0	-35.0	0.00000184				0.00000013 0.00000162	

Location and Details of Worksites for Fugitive Dust Assessment

LMC Loop 1-hr & 24-hr (Tier 1) TSP concentration calculation - Scenario 2, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)				Working Hour	
		X1	Y1	X2	Y2			Heavy Construction		Stockpiling			
		(m)	(m)	(m)	(m)	(m)	(deg / m)	Daytime	Non-working Hours	Daytime	Non-working Hours		
DCS01	Area	826458	842837	49.3	93.4	0	-30.0	0.00003075				0.0000021 0.00000270	0900-1700
FLU01	Area	827219	842273	10.4	56.5	0	-45.0	0.00003075				0.0000021 0.00000270	0900-1700
FLU02	Area	827201	842225	9.8	47.8	0	10.0	0.00003075				0.0000021 0.00000270	0900-1700
FLU03	Area	827218	842195	9.8	21.2	0	70.0	0.00003075				0.0000021 0.00000270	0900-1700
FLU04	Area	827259	842209	10.3	63.0	0	-55.0	0.00003075				0.0000021 0.00000270	0900-1700
FLU05	Area	827279	842196	34.9	44.8	0	-55.0	0.00003075				0.0000021 0.00000270	0900-1700
RG601	Area	826775	842554	238.7	9.6	0	-36.0	0.00003075				0.0000021 0.00000270	0900-1700
RG602	Area	826967	842385	271.6	19.5	0	-45.0	0.00003075				0.0000021 0.00000270	0900-1700
RG603	Area	827098	842279	54.9	16.5	0	-10.0	0.00003075				0.0000021 0.00000270	0900-1700
RG604	Area	827150	842276	18.7	48.4	0	-90.0	0.00003075				0.0000021 0.00000270	0900-1700
RG605	Area	827221	842303	17.6	95.8	0	-60.0	0.00003075				0.0000021 0.00000270	0900-1700
RG606	Area	827282	842347	17.6	47.6	0	-50.0	0.00003075				0.0000021 0.00000270	0900-1700
RG607	Area	827351	842415	13.5	144.6	0	-45.0	0.00003075				0.0000021 0.00000270	0900-1700
RG608	Area	827446	842501	18.3	107.1	0	-55.0	0.00003075				0.0000021 0.00000270	0900-1700
RG609	Area	827622	842617	18.2	313.9	0	-57.0	0.00003075				0.0000021 0.00000270	0900-1700
RG610	Area	827791	842722	17.5	76.3	0	-60.0	0.00003075				0.0000021 0.00000270	0900-1700
RG611	Area	827866	842724	76.3	15.8	0	-20.0	0.00003075				0.0000021 0.00000270	0900-1700
RG612	Area	827928	842687	16.5	64.1	0	40.0	0.00003075				0.0000021 0.00000270	0900-1700
RG613	Area	827976	842467	384.4	12.9	0	-83.0	0.00003075				0.0000021 0.00000270	0900-1700
RG614	Area	826552	842704	297.9	10.8	0	-32.0	0.00003075				0.0000021 0.00000270	0900-1700
RG615	Area	826935	842314	247.4	119.2	0	-45.0	0.00003075				0.0000021 0.00000270	0900-1700
RG616	Area	826985	842401	273.1	29.4	0	-45.0	0.00003075				0.0000021 0.00000270	0900-1700
RG617	Area	827114	842252	22.7	101.6	0	-90.0	0.00003075				0.0000021 0.00000270	0900-1700
WC12a102	Area	828220	841758	133.0	151.9	0	-32.0	0.00001892				0.0000021 0.00000270	0700-1900
WC12b101	Area	828108	842203	142.3	129.8	0	-64.0	0.00001892				0.0000021 0.00000270	0700-1900
WC12b102	Area	827989	842125	33.4	150.8	0	-67.0	0.00001892				0.0000021 0.00000270	0700-1900
WC12b103	Area	827975	842230	11.7	87.0	0	-67.0	0.00001892				0.0000021 0.00000270	0700-1900
WC12b104	Area	828033	842265	31.8	47.2	0	-66.0	0.00001892				0.0000021 0.00000270	0700-1900
WC12b105	Area	827997	842267	38.0	15.7	0	-66.0	0.00001892				0.0000021 0.00000270	0700-1900
WC12b106	Area	827974	842216	11.7	99.6	0	-67.0	0.00001892				0.0000021 0.00000270	0700-1900
WC12b107	Area	827981	842176	66.2	116.6	0	-67.0	0.00001892				0.0000021 0.00000270	0700-1900
WC12b108	Area	828205	842216	81.4	53.9	0	-64.0	0.00001892				0.0000021 0.00000270	0700-1900
WC12b109	Area	828199	842042	226.8	151.0	0	-64.0	0.00001892				0.0000021 0.00000270	0700-1900
WC12b110	Area	828343	842083	129.3	140.3	0	-64.0	0.00001892				0.0000021 0.00000270	0700-1900
WC12b111	Area	828362	842191	47.4	171.1	0	-64.0	0.00001892				0.0000021 0.00000270	0700-1900

Location and Details of Worksites for Fugitive Dust Assessment

LMC Loop 1-hr & 24-hr (Tier 2) TSP concentration calculation - Scenario 2, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)				Working Hour	
		X1 (m)	Y1 (m)	X2 (m)	Y2 (m)			Heavy Construction		Stockpiling			
		Daytime	Non-working Hours	Daytime	Non-working Hours			Daytime	Non-working Hours	Daytime	Non-working Hours		
DCS01	Area	826444	842845	16.3	93.4	0	-30.0	0.00003075			0.0000021	0.00000270	0900-1700
FLU01	Area	827205	842259	10.4	17.7	0	-45.0	0.00003075			0.0000021	0.00000270	0900-1700
FLU02	Area	827198	842225	3.6	47.8	0	10.0	0.00003075			0.0000021	0.00000270	0900-1700
FLU03	Area	827211	842197	9.8	6.9	0	70.0	0.00003075			0.0000021	0.00000270	0900-1700
FLU04	Area	827242	842198	10.3	23.1	0	-55.0	0.00003075			0.0000021	0.00000270	0900-1700
FLU05	Area	827266	842187	34.9	13.3	0	-55.0	0.00003075			0.0000021	0.00000270	0900-1700
RG601	Area	826841	842506	76.1	9.6	0	-36.0	0.00003075			0.0000021	0.00000270	0900-1700
RG602	Area	826905	842448	94.5	19.5	0	-45.0	0.00003075			0.0000021	0.00000270	0900-1700
RG603	Area	827097	842274	54.9	5.8	0	-10.0	0.00003075			0.0000021	0.00000270	0900-1700
RG604	Area	827150	842270	6.9	48.4	0	-90.0	0.00003075			0.0000021	0.00000270	0900-1700
RG605	Area	827248	842319	17.6	32.6	0	-60.0	0.00003075			0.0000021	0.00000270	0900-1700
RG606	Area	827293	842357	17.6	17.2	0	-50.0	0.00003075			0.0000021	0.00000270	0900-1700
RG607	Area	827317	842380	13.5	47.5	0	-45.0	0.00003075			0.0000021	0.00000270	0900-1700
RG608	Area	827473	842520	18.3	40.0	0	-55.0	0.00003075			0.0000021	0.00000270	0900-1700
RG609	Area	827534	842560	18.2	104.3	0	-57.0	0.00003075			0.0000021	0.00000270	0900-1700
RG610	Area	827794	842717	6.1	76.3	0	-60.0	0.00003075			0.0000021	0.00000270	0900-1700
RG611	Area	827864	842719	76.3	5.3	0	-20.0	0.00003075			0.0000021	0.00000270	0900-1700
RG612	Area	827924	842684	5.8	64.1	0	40.0	0.00003075			0.0000021	0.00000270	0900-1700
RG613	Area	827971	842466	384.4	4.3	0	-83.0	0.00003075			0.0000021	0.00000270	0900-1700
RG614	Area	826466	842759	94.4	10.8	0	-32.0	0.00003075			0.0000021	0.00000270	0900-1700
RG615	Area	826906	842286	247.4	37.6	0	-45.0	0.00003075			0.0000021	0.00000270	0900-1700
RG616	Area	826922	842465	94.5	29.4	0	-45.0	0.00003075			0.0000021	0.00000270	0900-1700
RG617	Area	827114	842245	7.4	101.6	0	-90.0	0.00003075			0.0000021	0.00000270	0900-1700
WC12a102	Area	827841	841357	15.3	258.9	0	-57.0	0.00001892			0.0000021	0.00000270	0700-1900
WC12b101	Area	828146	842221	142.3	45.2	0	-64.0	0.00001892			0.0000021	0.00000270	0700-1900
WC12b102	Area	827989	842125	33.4	150.8	0	-67.0	0.00001892			0.0000021	0.00000270	0700-1900
WC12b103	Area	827957	842223	10.4	48.3	0	-67.0	0.00001892			0.0000021	0.00000270	0700-1900
WC12b104	Area	828019	842259	32.2	16.9	0	-66.0	0.00001892			0.0000021	0.00000270	0700-1900
WC12b105	Area	827992	842265	38.0	5.0	0	-66.0	0.00001892			0.0000021	0.00000270	0700-1900
WC12b106	Area	827951	842207	11.7	49.8	0	-67.0	0.00001892			0.0000021	0.00000270	0700-1900
WC12b107	Area	827990	842153	16.8	116.6	0	-67.0	0.00001892			0.0000021	0.00000270	0700-1900
WC12b108	Area	828193	842239	30.8	53.9	0	-64.0	0.00001892			0.0000021	0.00000270	0700-1900
WC12b109	Area	828152	842019	226.8	45.0	0	-64.0	0.00001892			0.0000021	0.00000270	0700-1900
WC12b110	Area	828387	842104	129.0	42.8	0	-64.0	0.00001892			0.0000021	0.00000270	0700-1900
WC12b111	Area	828356	842204	18.1	171.6	0	-64.0	0.00001892			0.0000021	0.00000270	0700-1900

Location and Details of Worksites for Fugitive Dust Assessment

LMC Loop Annual TSP concentration calculation - Scenario 2, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)				Working Hour	
		X1	Y1	X2	Y2			Daytime	Non-working Hours	Daytime	Non-working Hours		
		(m)	(m)	(m)	(m)	(m)	(deg / m)	Daytime	Non-working Hours	Daytime	Non-working Hours		
DCS01	Area	826458	842837	49.3	93.4	0	-30.0	0.00000184			0.00000013	0.000000162	0900-1700
FLU01	Area	827219	842273	10.4	56.5	0	-45.0	0.00000184			0.00000013	0.000000162	0900-1700
FLU02	Area	827201	842225	9.8	47.8	0	10.0	0.00000184			0.00000013	0.000000162	0900-1700
FLU03	Area	827218	842195	9.8	21.2	0	70.0	0.00000184			0.00000013	0.000000162	0900-1700
FLU04	Area	827259	842209	10.3	63.0	0	-55.0	0.00000184			0.00000013	0.000000162	0900-1700
FLU05	Area	827279	842196	34.9	44.8	0	-55.0	0.00000184			0.00000013	0.000000162	0900-1700
RG601	Area	826775	842554	238.7	9.6	0	-36.0	0.00000184			0.00000013	0.000000162	0900-1700
RG602	Area	826967	842385	271.6	19.5	0	-45.0	0.00000184			0.00000013	0.000000162	0900-1700
RG603	Area	827098	842279	54.9	16.5	0	-10.0	0.00000184			0.00000013	0.000000162	0900-1700
RG604	Area	827150	842276	18.7	48.4	0	-90.0	0.00000184			0.00000013	0.000000162	0900-1700
RG605	Area	827221	842303	17.6	95.8	0	-60.0	0.00000184			0.00000013	0.000000162	0900-1700
RG606	Area	827282	842347	17.6	47.6	0	-50.0	0.00000184			0.00000013	0.000000162	0900-1700
RG607	Area	827351	842415	13.5	144.6	0	-45.0	0.00000184			0.00000013	0.000000162	0900-1700
RG608	Area	827446	842501	18.3	107.1	0	-55.0	0.00000184			0.00000013	0.000000162	0900-1700
RG609	Area	827622	842617	18.2	313.9	0	-57.0	0.00000184			0.00000013	0.000000162	0900-1700
RG610	Area	827791	842722	17.5	76.3	0	-60.0	0.00000184			0.00000013	0.000000162	0900-1700
RG611	Area	827866	842724	76.3	15.8	0	-20.0	0.00000184			0.00000013	0.000000162	0900-1700
RG612	Area	827928	842687	16.5	64.1	0	40.0	0.00000184			0.00000013	0.000000162	0900-1700
RG613	Area	827976	842467	384.4	12.9	0	-83.0	0.00000184			0.00000013	0.000000162	0900-1700
RG614	Area	826552	842704	297.9	10.8	0	-32.0	0.00000184			0.00000013	0.000000162	0900-1700
RG615	Area	826935	842314	247.4	119.2	0	-45.0	0.00000184			0.00000013	0.000000162	0900-1700
RG616	Area	826985	842401	273.1	29.4	0	-45.0	0.00000184			0.00000013	0.000000162	0900-1700
RG617	Area	827114	842252	22.7	101.6	0	-90.0	0.00000184			0.00000013	0.000000162	0900-1700
WC12a102	Area	828220	841758	133.0	151.9	0	-32.0	0.00000114			0.00000013	0.000000162	0700-1900
WC12b101	Area	828108	842203	142.3	129.8	0	-64.0	0.00000114			0.00000013	0.000000162	0700-1900
WC12b102	Area	827989	842125	33.4	150.8	0	-67.0	0.00000114			0.00000013	0.000000162	0700-1900
WC12b103	Area	827975	842230	11.7	87.0	0	-67.0	0.00000114			0.00000013	0.000000162	0700-1900
WC12b104	Area	828033	842265	31.8	47.2	0	-66.0	0.00000114			0.00000013	0.000000162	0700-1900
WC12b105	Area	827997	842267	38.0	15.7	0	-66.0	0.00000114			0.00000013	0.000000162	0700-1900
WC12b106	Area	827974	842216	11.7	99.6	0	-67.0	0.00000114			0.00000013	0.000000162	0700-1900
WC12b107	Area	827981	842176	66.2	116.6	0	-67.0	0.00000114			0.00000013	0.000000162	0700-1900
WC12b108	Area	828205	842216	81.4	53.9	0	-64.0	0.00000114			0.00000013	0.000000162	0700-1900
WC12b109	Area	828199	842042	226.8	151.0	0	-64.0	0.00000114			0.00000013	0.000000162	0700-1900
WC12b110	Area	828343	842083	129.3	140.3	0	-64.0	0.00000114			0.00000013	0.000000162	0700-1900
WC12b111	Area	828362	842191	47.4	171.1	0	-64.0	0.00000114			0.00000013	0.000000162	0700-1900

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Activities	2013												2014												2015												2016															
	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec				
S5 - Permanent Crossing across meander Excavation																																																				
S5 - Permanent Crossing across meander Advance Road Work, Noise Mitigation, Temp Bridge																																																				
S7 - Permanent Crossing across meander Advance Road Work, Noise Mitigation, Temp Bridge																																																				
S7 - Lok Ma Chau Road Improvement Works Section 3 Improvement Works																																																				
S8 - Permanent Crossing across meander Advance Road Work, Noise Mitigation, Temp Bridge																																																				
S8 - Lok Ma Chau Road Improvement Works Section 4 Improvement Works																																																				
S9 - Lok Ma Chau Road Improvement Works Section 5 Improvement Works																																																				
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S13 - Lok Ma Chau Road Improvement Works Section 9 Improvement Works																																																				
S14 - Eastern Connection Road Underpass construction																																																				
S15 - Eastern Connection Road Earthwork, paving, retaining structure construction																																																				
S16 - Eastern Connection Road Bridge construction																																																				
S17 - Eastern Connection Road Earthwork, paving, retaining structure construction																																																				
S18 - Eastern Connection Road Earthwork, paving, retaining structure construction																																																				
S19 - Eastern Connection Road Earthwork, paving																																																				
S20 - Eastern Connection Road Earthwork, paving																																																				
KTN NDA - Concurrent Project Earthwork, paving																																																				
R1 - Reservoir Construction Earthwork, paving																																																				

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Activities	2017												2018												2019												2020																	
	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec						
S5 - Permanent Crossing across meander Excavation																																																						
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S18 - Eastern Connection Road Earthwork, paving, retaining structure construction																																																						
S19 - Eastern Connection Road Earthwork, paving																																																						
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Activities	2021												2022												2023												2024																	
	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec						
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Activities	2025												2026												2027																	
	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec						
N1 - Lok Ma Chau Loop Fish Pond Compensation, Land De-contamination, Creation of EA, Embankment Construction																																										
N2 - Temporary Haul Road Between Sai Kwo Rd and Ha Wan Tsuen Rd Filling																																										
N3 - Temporary Haul Road Between Sai Kwo Rd and Ha Wan Tsuen Rd Filling																																										
Z0 - Lok Ma Chau Loop Filling																																										
Z0 - Lok Ma Chau Loop Renovating surcharge																																										
Z1 - Lok Ma Chau Loop Filling																																										
Z1 - Lok Ma Chau Loop Renovating surcharge																																										
Z1 - Lok Ma Chau Loop Internal Road, utilities construction																																										
Z1 - Building (Phase 1) Concrete foundation																																										
Z1.1 - District Cooling System (Western) Concrete foundation																																										
Z2 - Lok Ma Chau Loop Filling																																										
Z2 - Lok Ma Chau Loop Renovating surcharge																																										
Z2 - Lok Ma Chau Loop Internal Road, utilities construction																																										
Z2 - Building (Phase 1) Concrete foundation																																										
Z3 - Lok Ma Chau Loop Filling																																										
Z3 - Lok Ma Chau Loop Renovating surcharge																																										
Z3 - Lok Ma Chau Loop Internal Road, utilities construction																																										
Z3 - Building (Phase 2) Concrete Foundation																																										
Z3.1 - Sewage Treatment Work Concrete Foundation																																										
Z3.2 - District Cooling System (Eastern) Concrete Foundation																																										
Z4 - Lok Ma Chau Loop Filling																																										
Z4 - Lok Ma Chau Loop Renovating surcharge																																										
Z4 - Lok Ma Chau Loop Internal Road, utilities construction																																										
Z4 - Building (Phase 2) Concrete Foundation																																										
Z5 - Lok Ma Chau Loop Filling																																										
Z5 - Lok Ma Chau Loop Renovating surcharge																																										
Z5 - Lok Ma Chau Loop Internal Road, utilities construction																																										
L1 - LMC Station Connection (between Tun Yu Road and Ha Wan Tsuen Road) Paving																																										
L2 - LMC Station Connection (Bridge Section) Paving																																										
L3 - LMC Station Connection (Bridge Section) Paving																																										
L4 - LMC Station Connection (Bridge Section) Paving																																										
L5 - LMC Station Connection (Bridge Section) Paving																																										
L6 - LMC Station Connection (Bridge Section) Paving																																										

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	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec											
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