

Tai Po Golf Club Limited

Proposed Golf Course Development at Tai Po Lot No. 246 Shuen Wan

Construction Dust Management Plan

Reference: 289499-REP-021-05

This report takes into account the particular instructions and requirements of our client. It is not intended for and should not be relied upon by any third party and no responsibility is undertaken to any third party.

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1. Introduction

1.1 Project Background

- 1.1.1.1 In June 2017, the Chief Executive in Council has agreed in principle to the government proposal to grant a piece of land in Tai Po in exchange for its private land in Sha Lo Tung which has high ecological values. Under the non-in-situ land exchange proposal, the piece of land at the Shuen Wan Restored Landfill in Tai Po will be granted and the Sha Lo Tung site would be considered by government for active conservation management to avoid degradation and damage for long-term public enjoyment. This land exchange proposal is a unique, exceptional and isolated case, adding the idea is technically feasible as the private land ownership is largely unified under one entity and both Sha Lo Tung and the land at the landfill site, which has been planned for golf course development, are located in Tai Po, as shown in Figure 1 of FEP-01/571/2019/A (extracted as **Appendix 1.1**). The non-in-situ land exchange proposal has been completed in July 2022, and the Project Site has been handed over to the Project Proponent (PP).
- 1.1.1.2 The Project is a Designated Project (DP) under Environmental Impact Assessment Ordinance (EIAO), and an Environmental Impact Assessment (EIA) study was conducted in 2017. The *Shuen Wan Golf Course EIA Report* was approved by the Director of Environmental Protection (DEP) on 5 July 2019 (AEIAR-221/2019) (“the approved EIA Report for Shuen Wan Golf Course”) with the Environmental Permit (EP, EP-571/2019) issued on 20 September 2019. An application of Further Environmental Permit (FEP) has been made by Tai Po Golf Club Limited (the PP) and FEP was issued on 29 November 2022 (FEP-01/571/2019). Besides, surrender of EP-571/2019 has been applied and approved on 9 December 2022. In addition, an application for variation of EP has been made on 16 May 2023 to amend FEP-01/571/2019, and the amended EP was issued on 6 June 2023 (FEP-01/571/2019/A).
- 1.1.1.3 As stipulated in Condition 2.17 of FEP-01/571/2019/A, the Permit Holder shall submit a Construction Dust Management Plan (CDMP) to include an updated dust impact assessment and details of implementation programme of the required construction dust mitigation measures for the Project. The Permit Holder shall, no later than two months before the commencement of construction of the Project or otherwise approved by the DEP, submit 4 hard copies and 1 electronic copy of a CDMP to the DEP for approval. The CDMP shall be based on the approved Construction Phasing Plan (CPP) under Condition 2.15 of FEP-01/571/2019/A. The CDMP shall be certified by the Environmental Team (ET) Leader and verified by the Independent Environmental Checker (IEC) as conforming to the findings and recommendations of the approved EIA Report for Shuen Wan Golf Course for approval of the DEP. All measures recommended in the approved CDMP shall be fully implemented during construction phase of the Project.

1.2 Purpose of the CDMP

- 1.2.1.1 The CDMP is prepared to comply with Condition 2.17 of FEP-01/571/2019/A. This CDMP provides an updated dust impact assessment and details of implementation programme of the required construction dust mitigation measures for the Project as well as the updated information of the assessment, e.g. assessment area, Air Sensitive Receivers (ASRs), chimney, vehicular emission, key pollutants, assessment methodology.

1.3 Structure of the CDMP

1.3.1.1 The structure of the CDMP is given below:

Section 1	Introduces the project background and purposes of this CDMP.
Section 2	Reviews the updated dust impact assessment.
Section 3	Describes the updates on modelling approach.
Section 4	Evaluates the cumulative dust impacts.
Section 5	Summarises and concludes the findings.

2. Assessment Review

2.1 Overview

2.1.1.1 This section is aimed to provide a discussion on the updates since the approval of the approved EIA Report for Shuen Wan Golf Course. These updates include criteria, assessment area, assessment year, ASRs, key pollutants, etc.

2.2 Legislation, Standards and Criteria

2.2.1.1 This CDMP is prepared in accordance with the following legislation and guidelines.

- Air Pollution Control Ordinance (APCO) (Cap. 311);
- Air Pollution Control (Construction Dust) Regulation (Cap. 311R);
- Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (Cap. 311Z);
- Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM); and
- Environmental Impact Assessment Ordinance (EIAO) (Cap. 499).

2.3 Existing Ambient Air Quality Conditions

2.3.1.1 The Air Quality Monitoring Station (AQMS) operated by Environmental Protection Department nearest to the Project is the Tai Po AQMS. The monitoring data for the latest 5 year (i.e. 2018 – 2022) are summarised and compared with AQOs in **Table 2.1**.

Table 2.1 Air Quality Monitoring Data (Tai Po Station, 2018 – 2022)

Pollutants	Parameter	Concentrations ($\mu\text{g}/\text{m}^3$)						AQO ($\mu\text{g}/\text{m}^3$)
		2018	2019	2020	2021	2022	5-Year Mean	
RSP	10 th highest 24-hr	69	65	58	60	48	60 [60%]	100 (9)
	Annual	31	31	24	26	21	27 [53%]	50
FSP	36 th highest 24-hr	33	35	28	27	25	30 [59%]	50 (35)
	Annual	19	20	15	16	14	17 [67%]	25

Notes:

[1]: Number of exceedance allowed under the AQO is shown in (), % of the AQO is shown in [].

[2]: The historical monitoring data was compared to the new AQOs.

[3]: Data is extracted from EPD's Smart Air Modelling Platform (SAMP) version 2.0 and Air Quality Reports - Annual Air Quality Monitoring Results.

2.3.1.2 The 10th highest daily RSP levels were ranged from 48 to 69 $\mu\text{g}/\text{m}^3$, while the annual RSP levels were ranged from 21 to 31 $\mu\text{g}/\text{m}^3$. Both are within the corresponding AQOs.

2.3.1.3 The 36th highest daily FSP levels were ranged from 25 to 35µg/m³. The annual FSP levels were ranged from 14 to 20µg/m³. Both are within the corresponding AQOs.

2.4 Assessment Area

2.4.1.1 Given that there is no update on the boundary of the Project, the 500m assessment area defined in the approved EIA Report for Shuen Wan Golf Course remains applicable. The assessment area in the approved EIA Report for Shuen Wan Golf Course is extracted as **Appendix 2.1**.

2.5 Air Sensitive Receivers

2.5.1.1 According to desktop review and site visits, the ASRs identified in the approved EIA Report for Shuen Wan Golf Course are considered valid except Villa Lucca, which was under development and identified as planned ASR PA2 during EIA stage. Villa Luccas has been occupied after the approval of the approved EIA Report for Shuen Wan Golf Course, thus, it is renamed as ASR A15 in this CDMP. The ASRs are shown in **Table 2.2** below and **Appendix 2.1**.

Table 2.2 Air Sensitive Receivers

ASR ID	Location	Land Use ^[1]	Number of Storey	Approx. Distance from Project Site (m)
Existing				
A1	Fortune Garden	Res	3	35
A2	Casa Marina I	Res	3	225
A3	Village House at 53 Ting Kok Road	Res	3	110
A4	Tai Po East Fire Station	Gov	4	100
A5	Meyer Aluminium Limited	Ind	2	25
A6	Watson's Water Centre	Ind	5	25
A7	Hung Hing Printing Centre	Ind	2	10
A8	Phoenix Television Corporation	Ind	3	50
A9	Casa Brava	Res	3	200
A10	Casa Marina II	Res	3	430
A11	Tycoon Place	Res	4	240
A12	Hong Kong Landfill Restoration Group Limited	Off	2	5
A13	EPD Site Office	Gov	1	<5
A14	Lai Wah Garden Company Limited	Ind	1	60
A15	Villa Lucca	Res	5	170
Planned				
PA1	Proposed Ancillary Facilities with Overnight Accommodations	Rec/ Off/ Res	3	Within Project Site
PA3	Proposed Staff Quarters	Res	2	Within Project Site

Note:

[1]: Res – Residential; Ind – Industrial; Gov – Government; Off – Office; and Rec – Recreational.

2.6 Assessment Year

- 2.6.1.1 The construction of the Project would be commenced in Year 2024 for completion in Year 2027. Site formation works would be conducted between Year 2024 and Year 2026 and Year 2027 for superstructure works. Under the CPP, there are 3 phases during the construction period, i.e. Phase 1, Phase 2 and Phase 3 (further sub-divided into Phase 3A and Phase 3B), with work fronts shifting throughout the construction period at different phases. To account for these variations, a comprehensive assessment has been conducted for each year of the construction phase. The work fronts in different phases will be maintained even if there is delay in construction programme. Therefore, the assessment is considered to have already presented a reasonable worst case scenario.
- 2.6.1.2 The details of the updated construction programme and the work fronts are presented in **Appendix 2.2**.

2.7 Key Pollutants

- 2.7.1.1 The key pollutants assessed in this CDMP would be the same as those assessed for the construction phase in the approved EIA Report for Shuen Wan Golf Course, i.e. Total Suspended Particulate (TSP), Respirable Suspended Particulates (RSP) and Fine Suspended Particulates (FSP).
- 2.7.1.2 Moreover, Air Pollution Control (Amendment) Ordinance 2021 (Amendment Ordinance) for tightening Air Quality Objectives (AQOs) including FSP and RSP have been published in the gazette in May 2021 after the approval of the approved EIA Report for Shuen Wan Golf Course. Since there are no updates on TSP, the criterion of TSP is kept as 500 $\mu\text{g}/\text{m}^3$ without any exceedance hour. The updated AQOs have been adopted in the dust impact assessment in this CDMP and shown in **Table 2.3** below:

Table 2.3 Current Hong Kong Air Quality Objectives

Pollutant	Limits on Concentration, $\mu\text{g}/\text{m}^3$ (The Number of Exceedance per calendar year allowed is shown in brackets)	
	24-hr	Annual
RSP	100 (9)	50
FSP	50 (35)	25

2.8 Pollution Sources and Emission Inventory

2.8.1 Pollution Source associated with the Project

- 2.8.1.1 During detailed design stage, construction programme and work fronts have been reviewed and optimised to facilitate the construction of the Project, which has been considered in this CDMP.
- 2.8.1.2 Due to the same working hour (7am to 7pm) and construction works (i.e. heavy construction and stockpile) as in the approved EIA Report for Shuen Wan Golf Course, the emission rate as well as particle size, etc. are still applicable and adopted in this CDMP.
- 2.8.1.3 The details of the dust emission, locations and the work fronts are presented in **Appendix 2.3**.

2.8.2 Near-Field Pollution Sources

Industrial Chimney

- 2.8.2.1 A desktop review on industrial chimneys to reflect the current status was conducted in January 2024, including the approved EIA Report for Shuen Wan Golf Course, the approved EIA Report for Upgrading of Tai Po Sewage Treatment Works (AEIAR-244/2022) (“the approved EIA Report for TPSTW”) and Specified Processes (SP) licenses from the Centralised Environmental Database (CED) provided by Environmental Protection Department (EPD).
- 2.8.2.2 Based on the desktop review findings, it is observed that the Universal (Hot-Dip) Galvanising Limited has been closed, and its chimneys (Source ID UNEP1 and UNEP2) are excluded from the CDMP. Additionally, chimneys associated with the combined heat and power (CHP) generating system, identified in the approved EIA Report for TPSTW, have been incorporated into this CDMP.
- 2.8.2.3 Furthermore, the Tai Po Gas Production Plant (TPGPP) of The Hong Kong and China Gas is classified as a major point within 4km of the Project. However, according to the approved EIA Report for Shuen Wan Golf Course and CED, there are no TSP, RSP and FSP emission from TPGPP.
- 2.8.2.4 The details of the chimney emissions are presented in **Appendix 2.4**.

Vehicular Emissions on Open Roads

- 2.8.2.5 As discussed in **Section 2.3**, the assessment area is the same as the approved EIA Report for Shuen Wan Golf Course and there are no new roads and update of alignment within the assessment area, the road network is therefore the same as the approved EIA Report for Shuen Wan Golf Course.
- 2.8.2.6 Traffic forecast has been prepared based on the updated construction programme. The maximum traffic flow within the whole construction period, i.e. Year 2024 - 2027, including the superstructure works in Year 2027 has been adopted. As a conservative approach, the predictions of vehicular emission impacts would adopt the highest emission factor year (Year 2024 in the construction period of Year 2024 – 2027 as in **Table 2.4**) and the maximum traffic forecast for Year 2027.
- 2.8.2.7 Annual vehicular emissions of Year 2024 - 2027 are shown as below **Table 2.4**. As shown in **Table 2.4**, the highest emission is occurring in Year 2024 and hence adopted for the open roads vehicular model.

Table 2.4 Vehicular emissions between Year 2024 and Year 2027

Year	Annual Emission (kg/year) ^{[1], [2]}	
	RSP	FSP
2024	636.8	582.5
2025	612.3	560.8
2026	589.9	540.9
2027	566.5	519.3

Note:

[1]: Annual emissions are obtained from EMFAC model from EPD' SAMP version 2.0.

[2]: Annual hour minimum temperature scenario is adopted.

2.8.2.8 The road network, traffic forecast and vehicular emissions can be found in **Appendix 2.5**.

Vehicular Emissions at Bus Terminus

2.8.2.9 According to the desktop review on public transport facilities such as interchanges and bus terminus conducted in January 2024, Tai Po Industrial Estate Bus Terminus has been identified within the assessment area and is included in this CDMP.

2.8.2.10 According to the bus schedule of the Tai Po Industrial Bus Terminal, the bus schedule is the same as TPSTW EIA, which is adopted in this CDMP. However, the emissions have been recalculated using the latest version of the EMFAC model (v4.3), ensuring up-to-date emission rates. Detail information and emission data for the Tai Po Industrial Bus Terminal is shown in **Appendix 2.6**.

Concurrent Project - Upgrading works of Tai Po Sewage Treatment Works

2.8.2.11 According to the approved EIA Report for TPSTW, the planned upgrading works of TPSTW are within 500m assessment area and classified as a concurrent project in this CDMP. As advised by the project proponent, i.e. Drainage Services Department (DSD), of the planned upgrading works of TPSTW, the relevant information in the approved EIA Report for TPSTW is still valid.

2.8.2.12 The planned upgrading works will upgrade the design capacity of TPSTW to meet the projected sewage treatment demand. According to the approved EIA Report for TPSTW, the upgrading works will be carried out by phase, starting with the construction of a New West Plant, followed by the demolition and upgrading of the existing facilities. The construction of the New West Plant is scheduled from Year 2025 - Year 2029, and the subsequent works within the existing TPSTW are planned from Year 2029 - Year 2036. Dust emissions are expected during the construction phase. Given that the construction programme of TPSTW will overlap with the updated construction programme of the proposed golf course, the upgrading works is therefore included in this CDMP as a concurrent project.

2.8.2.13 There are 8 scenarios modelled to present the different construction cases. These 8 scenarios have been modelled for the assessment years overlapped with the construction of the TPSTW (i.e. Year 2025 and 2026) for the cumulative impact of this CDMP. The maximum concentration at ASRs between these scenarios have been extracted for the cumulative impact to present the worst case scenario. Other assumptions such as emission rate as well as particle size, etc. are referred to those in the approved EIA Report for TPSTW.

2.8.2.14 The location, emission rate and working hour of the dust sources are extracted from the approved EIA Report for TPSTW and presented in **Appendix 2.7**.

Far-field Source Contribution

2.8.2.15 Hourly pollutant concentration data predicted by PATH v2.1 for Year 2024 and PATH v3.0 for Year 2025 provided by EPD are directly adopted as the background concentration. The release of PATH v3.0 in January 2024 marked a significant update to the background air quality for Hong Kong emission and air quality scenario projections beyond Year 2025 up to Year 2040. However, PATH v3.0 has not included the modelling years before Year

2025. Therefore, for the assessment year of 2024, the results from the earlier PATH v2.1 (released in Year 2021) is adopted, while for the assessment years of 2025 - 2026, results from the current PATH v3.0 (released in Year 2024) is adopted. Since PATH v3.0 does not provide modelling results for Year 2026, background concentration in Year 2025 is adopted for modelling Year 2025 - 2026 as the best available information at the time of assessment.

2.8.2.16 The assessment area involves 6 PATH grids as shown in **Appendix 2.1**. The concentration predicted are summarised in the following **Table 2.5**:

Table 2.5 PATH background concentration in Year 2024 and Year 2025

Pollutant	Averaging Time	AQO ^[1]	Data Summary	Background Concentration (ug/m ³) of PATH Grids ^[2]					
				43_48	43_49	42_48	42_49	41_48	41_49
Year 2024									
RSP	24-hour	100 (9)	10th	62	64	62	64	63	65
			Exceedance	0	0	0	0	0	0
	Annual	50	-	27	28	26	27	27	27
FSP	24-hour	50 (35)	36th	22	25	21	23	23	23
			Exceedance	7	9	7	7	8	7
	Annual	25	-	14	15	14	15	15	15
Year 2025									
RSP	24-hour	100 (9)	10th	55	59	55	58	56	56
			Exceedance	0	0	0	0	0	0
	Annual	50	-	21	22	21	22	22	22
FSP	24-hour	50 (35)	36th	29	31	28	30	29	29
			Exceedance	0	0	0	0	0	0
	Annual	25	-	13	14	13	14	14	14

Note:

[1] The number of exceedance per calendar year allowed is shown in brackets.

[2] PATH v2.1 and v3.0 Data Dissemination & SAMP <https://aqia.epd.gov.hk/>.

2.9 Updates on Mitigation Measures

2.9.1.1 In order to reduce the dust emission from the Project and achieve compliances of relevant criteria at ASRs, mitigation measures should be adopted, including watering once every hour on exposed worksites and haul road to achieve dust removal efficiency of 91.7% and the erection of a 3-m hoarding at the northern boundary of the Project Site as shown in Figure 3.2a of the approved EIA Report for Shuen Wan Golf Course (**Appendix 2.8**), etc. The implementation schedule of the recommended mitigation measures is summarised in **Appendix 2.9**. In addition, the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation should be followed. The following dust suppression measures should be incorporated to control the dust nuisance throughout the construction phase.

- Erect a 3-m high hoarding at the northern boundary of the Project Site, extent as shown in **Appendix 2.8**;
- Any stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading;

- Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;
- A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones;
- The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle;
- Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores;
- When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the Project Site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period;
- The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials;
- Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously;
- Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet;
- Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding;
- Any skip hoist for material transport should be totally enclosed by impervious sheeting;
- Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;
- Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed;
- Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and
- Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.

2.9.1.2 The construction dust monitoring period has been updated as shown in **Table 2.6**. The construction dust monitoring locations are shown in **Appendix 2.10**, which is extracted from the Baseline Monitoring Report previously submitted to EPD according to Condition 3.4 of the Environmental Permit (FEP-01/571/2019/A) (i.e. Figure 1.1 of Appendix 2.4 of the Baseline Monitoring Report).

Table 2.6 Construction Dust Monitoring Period

Monitoring Station ID	ASR ID	Location	Impact Monitoring Period ^[1]
DM-1	A13	EPD Site Office	07/2024 - 06/2026 (Entire construction period with site formation works)
DM-2a	A1	Near Fortune Garden Entrance	07/2024 - 06/2026 (Entire construction period with site formation works)
DM-3a	A7	Outside Hung Hing Printing Centre	07/2024 - 06/2026 (Entire construction period with site formation works)

Note:

[1] The tentative impact monitoring period is subject to the actual commencement date of the construction works.

3. Updates of Modelling Approach

3.1 Overview

3.1.1.1 According to **Section 2**, an updated dust impact assessment has been conducted quantitatively.

3.2 AERMOD Modelling Parameters and Uses of EPD SAMP

3.2.1.1 The AERMOD modelling parameters adopted in this CDMP would consist of the latest EPD Guidelines on Choice of Models and Model Parameters (GL) released in January 2024. Moreover, EPD has also released SAMP with the release of the GL. Besides the PATH data can be obtained by the SAMP, the SAMP also helps to prepare air quality model and provide AERMET and EMFAC model run. This CDMP employs SAMP for AERMET and EMFAC modelling. Surface characteristics for each PATH grid provided by SAMP can be found in **Appendix 3.1**.

3.2.1.2 The updates of modelling parameters adopted in AERMOD has been summarised in **Table 3.1** below.

Table 3.1 Modelling Parameters Adopted in AERMOD

Parameters	CDMP
Background Concentration	Hourly RSP and FSP concentrations from PATH v2.1 (Year 2024)
Meteorological Data	2019 hourly meteorological data adopted in PATH v3.0
Anemometer Height	8.5 m (According to the updated EPD's Guidelines on Choice of Models and Model Parameters)
Albedo	Vary between PATH grids (Provided by EPD SAMP. Refer to Appendix 3.1)
Bowen ratio	Vary between PATH grids (Provided by EPD SAMP. Refer to Appendix 3.1)
Land use and Surface Roughness	Vary between PATH grids (Provided by EPD SAMP. Refer to Appendix 3.1)
Terrain Effect	With terrain effect
Emission Period	General construction activities during daytime working hours (7 am to 7 pm) Wind erosion during night-time (7pm to 7am of the next day)
Assessment Heights	1.5m, 5m, 10m, 15m, 20m, 30m and 40m

3.2.1.3 The use of EMFAC mode has been adopted to generate the vehicular emission factors. The composite emission rates calculated by SAMP v2.0 and the latest EMFAC-HK model v4.3 contains the running emissions and start emissions by broad-brush approach. The start emissions for all 18 vehicle classes have been considered. The maximum start emission factor among different soak time for each vehicle class has been used in the calculation of start emission. For calculations of start emissions by the broad-brush approach, start emissions for each vehicle class are assumed directly proportional to Trips per Vehicle-kilometre-travelled ratio (Trip/VKT) with consideration of the proportion of local and rural roads within Hong Kong based on the Annual Traffic Census (ATC) prepared by the Transport Department (TD). For SAMP v2.0, default trip and VKT values from EMFAC-HK model v4.3 are used in the calculations and the proportion of local and rural roads within Hong Kong of 14.34% is assumed based on ATC 2022. The Zero Emission Vehicle Scenario has been adopted in SAMP.

3.3 Prediction of the Cumulative Construction Dust Impact

3.3.1.1 The cumulative construction dust impact is a combination of the emission impacts contributed from the near field and far field sources on an hourly basis. As three assessment years (Year 2024 - 2026) have been modelled for each ASR. In consideration of the number of exceedance allowance of the daily AQOs (refer to **Table 2.3**), any pollutant concentrations beyond the AQO's allowance limits (i.e. the 10th highest 24-hour RSP and 36th highest 24-hour FSP concentrations) are presented. The predicted annual RSP/ FSP concentrations are also assessed, and all predicted levels are then compared with the AQOs. Besides, the 1-hour TSP concentration as stipulated under Annex 4 of TM- EIAO is also determined at each ASR.

4. Evaluation on Cumulative Dust Impact

4.1.1.1 With the implementation of the abovementioned updates, the maximum mitigated 1-hour TSP concentrations, 10th highest 24-hour and annual RSP concentrations, and 36th highest 24-hour and annual FSP concentrations are calculated and detailed in **Appendix 4.1**. The cumulative results summary for Year 2024, 2025 and 2026 among assessment heights at each ASR are summarised in **Table 4.1** to **4.3** below. Results indicate that there are no exceedances of respective criteria predicted at all ASRs.

Table 4.1 Cumulative TSP, RSP and FSP Concentrations in Year 2024

ASR ID	Location	Range of Pollutant Concentration ($\mu\text{g}/\text{m}^3$) among Assessment Heights				
		TSP	RSP		FSP	
		Maximum 1-hour	10 th Highest 24-hour	Annual	36 th Highest 24-hour	Annual
Criteria		500	100	50	50	25
Existing ASRs						
A1	Fortune Garden	179 to 194	67 to 68	31	22	15
A2	Casa Marina I	153 to 169	66 to 68	28	23 to 24	15
A3	Village House at 53 Ting Kok Road	171	70	30	25	16 to 17
A4	Tai Po East Fire Station	175 to 176	70 to 71	31	25	17
A5	Meyer Aluminium Limited	202 to 206	73 to 74	33 to 34	25 to 27	17 to 18
A6	Watson's Water Centre	192 to 194	71 to 75	34 to 36	23 to 24	16
A7	Hung Hing Printing Centre	218 to 229	75 to 79	39 to 41	24	16 to 17
A8	Phoenix Television Corporation	180 to 182	66 to 67	33	23	15
A9	Casa Brava	164 to 165	69	30	24 to 25	16 to 17
A10	Casa Marina II	151 to 160	65 to 66	28	23	15
A11	Tycoon Place	159 to 166	65	28	24	15
A12	Hong Kong Landfill Restoration Group Limited	202 to 249	73 to 76	33 to 35	25 to 26	17
A13	EPD Site Office	205 to 210	73	33	25	17
A14	Lai Wah Garden Company Limited	174	70	30	25	16
A15	Villa Lucca	159 to 172	66 to 68	28	24	15

Table 4.2 Cumulative TSP, RSP and FSP Concentrations in Year 2025

ASR ID	Location	Range of Pollutant Concentration ($\mu\text{g}/\text{m}^3$) among Assessment Heights				
		TSP	RSP		FSP	
		Maximum 1-hour	10 th Highest 24-hour	Annual	36 th Highest 24-hour	Annual
Criteria		500	100	50	50	25
Existing ASRs						
A1	Fortune Garden	346 to 350	61 to 62	26	29 to 30	14
A2	Casa Marina I	120 to 173	59	23	30	14
A3	Village House at 53 Ting Kok Road	204 to 206	60 to 61	25	31	15
A4	Tai Po East Fire Station	201 to 206	61	26	31	15 to 16
A5	Meyer Aluminium Limited	226 to 262	66 to 70	28 to 29	31 to 32	15 to 17
A6	Watson's Water Centre	190 to 379	67 to 86	31 to 45	30 to 33	15 to 17
A7	Hung Hing Printing Centre	241 to 257	71 to 75	35 to 37	30	15 to 16
A8	Phoenix Television Corporation	181 to 183	61 to 62	28	30	14
A9	Casa Brava	180 to 181	60 to 61	25	31	15
A10	Casa Marina II	117 to 159	59	23	30	14
A11	Tycoon Place	130 to 180	59	23	30	14
A12	Hong Kong Landfill Restoration Group Limited	243 to 345	64 to 68	28 to 29	32	16
A13	EPD Site Office	256 to 265	66 to 68	29	32	16

ASR ID	Location	Range of Pollutant Concentration ($\mu\text{g}/\text{m}^3$) among Assessment Heights				
		TSP	RSP		FSP	
		Maximum 1-hour	10 th Highest 24-hour	Annual	36 th Highest 24-hour	Annual
Criteria		500	100	50	50	25
A14	Lai Wah Garden Company Limited	217 to 220	60	25	31	15
A15	Villa Lucca	122 to 192	59	23	30	14

Table 4.3 Cumulative TSP, RSP and FSP Concentrations in Year 2026

ASR ID	Location	Range of Pollutant Concentration ($\mu\text{g}/\text{m}^3$) among Assessment Heights				
		TSP	RSP		FSP	
		Maximum 1-hour	10 th Highest 24-hour	Annual	36 th Highest 24-hour	Annual
Criteria		500	100	50	50	25
<i>Existing ASRs</i>						
A1	Fortune Garden	128 to 132	58 to 59	23	29	14
A2	Casa Marina I	103	59	22	30	14
A3	Village House at 53 Ting Kok Road	122 to 123	59 to 60	24	31	15
A4	Tai Po East Fire Station	127 to 129	60	24	31	15
A5	Meyer Aluminium Limited	118 to 168	60 to 65	24 to 26	30 to 32	15 to 16
A6	Watson's Water Centre	114 to 293	59 to 77	24 to 37	29 to 31	14 to 16
A7	Hung Hing Printing Centre	136 to 144	57 to 58	24	29	14
A8	Phoenix Television Corporation	119 to 121	58	24	28	14
A9	Casa Brava	119 to 121	60	23 to 24	31	15
A10	Casa Marina II	102	59	22	30	14
A11	Tycoon Place	104	59	22 to 23	30	14
A12	Hong Kong Landfill Restoration Group Limited	203 to 206	60 to 61	24	31	15
A13	EPD Site Office	162 to 164	60	24	31	15
A14	Lai Wah Garden Company Limited	119	59	24	31	15
A15	Villa Lucca	103 to 107	59	22	30	14

4.1.1.2 According to the detailed assessment results presented in **Appendix 4.1**, the worst construction dust impact on each identified existing ASRs generally occurs at ground level (i.e. 1.5m above ground), which is the closest location to the at-grade construction site. Contours of 1-hour TSP concentrations, 10th highest 24-hour and annual RSP concentrations, and 36th highest 24-hour and annual FSP concentrations at the worst affected level (i.e. 1.5m above ground) are illustrated in **Appendix 4.2**. Contours also indicate that there are no exceedances at all ASRs.

4.1.1.3 It is concluded that with the implementation of the recommended mitigation measures and dust control measures, including watering, good site practices, as well as the erection of 3-m high hoarding proposed at the northern boundary of the Project Site, the predicted 1-hour TSP, 24-hour and annual RSP / FSP concentrations on all sensitive uses in the vicinity of the construction sites would comply with the respective criteria. Hence, no adverse residual air quality impact during construction phase is anticipated.

5. Conclusion

- 5.1.1.1 Potential construction dust impact would be generated during construction phase. An updated dust impact assessment has been conducted. Results have concluded that no adverse residual air quality impact during construction phase is anticipated given the implementation of the recommended mitigation measures and dust control measures.

Appendix 1.1

Figure 1 of FEP-01/571/2019/A



Legend 圖例	
	Project Location 工程項目位置
	1.2 ha Core Roosting Area 1.2 公頃核心夜間棲息地
	<i>Aquilaria sinensis</i> 土沉香

Project Title 工程項目名稱	Shuen Wan Golf Course 船灣高爾夫球場
Figure 1 圖一	Project Location and Conceptual Layout Plan 工程項目位置及概念佈局圖 [This figure was prepared based on Figure 2.1 of EIA Report (Register No.: AEIAR-221/2019)] [本圖是根據環境影響評估報告 (登記冊編號: AEIAR-221/2019) 圖 2.1 編制]






Environmental Permit No.:
環境許可證編號：
FEP-01/571/2019/A

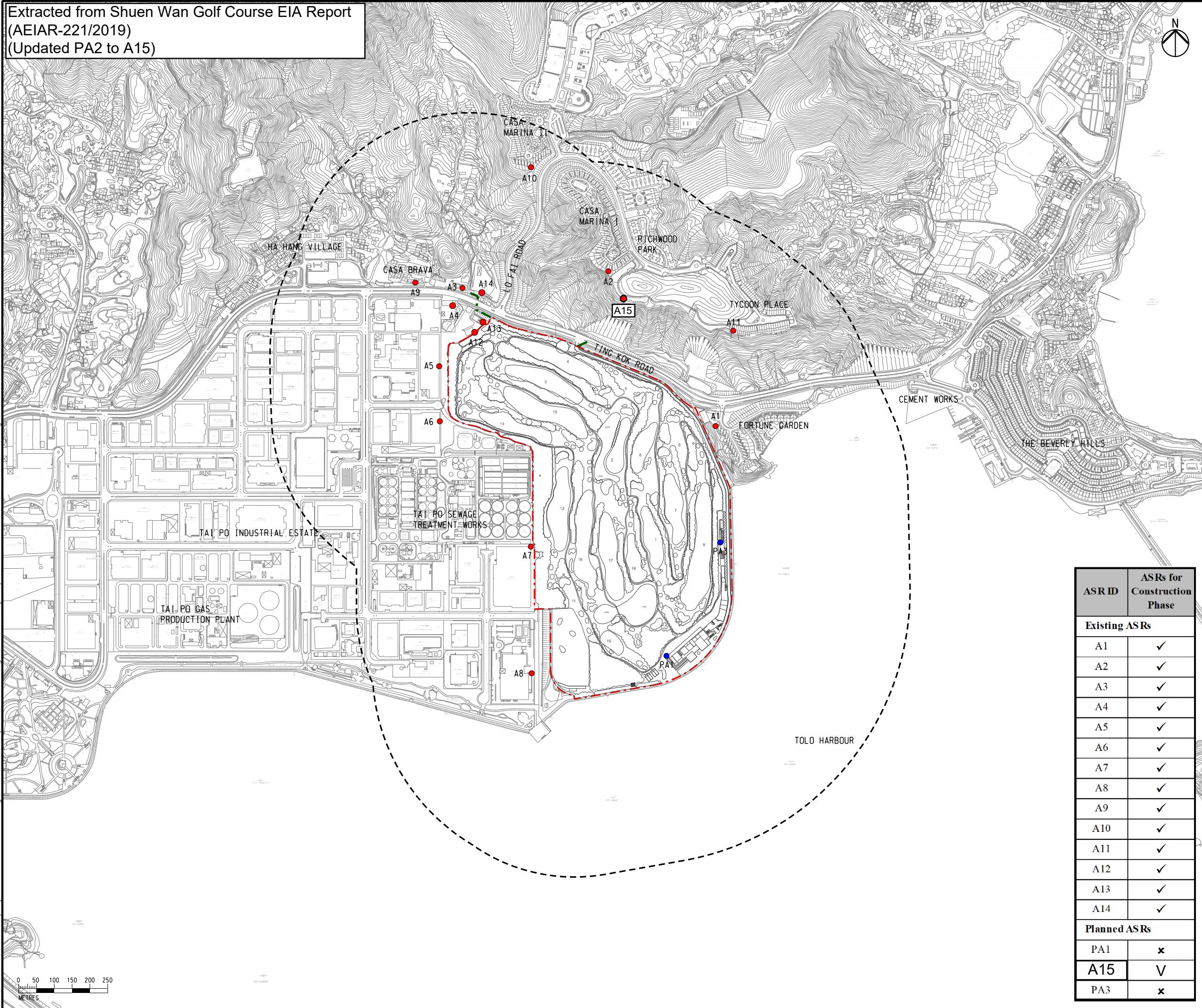


Appendix 2.1

Assessment Area, Air Sensitive Receivers and PATH Grids

Extracted from Shuen Wan Golf Course EIA Report
(AEIAR-221/2019)
(Updated PA2 to A15)

- LEGEND**
-  PROJECT BOUNDARY
 -  PROPOSED DRAINAGE / SEWERAGE / WATERWORKS OUTSIDE SITE BOUNDARY
 -  500m ASSESSMENT AREA
 -  REPRESENTATIVE EXISTING AIR SENSITIVE RECEIVER
 -  REPRESENTATIVE PLANNED AIR SENSITIVE RECEIVER



ASR ID	ASRs for Construction Phase
Existing ASRs	
A1	✓
A2	✓
A3	✓
A4	✓
A5	✓
A6	✓
A7	✓
A8	✓
A9	✓
A10	✓
A11	✓
A12	✓
A13	✓
A14	✓
Planned ASRs	
PA1	✗
A15	V
PA3	✗

Rev	Description	By	Date
E	FIFTH ISSUE	GL	03/19
D	FOURTH ISSUE	GL	01/19
C	THIRD ISSUE	GL	11/18
B	SECOND ISSUE	GL	07/18

Consultant

ARUP

Contract No. and Title

SHUEN WAN GOLF COURSE

Drawing title

KEY REPRESENTATIVE AIR SENSITIVE RECIEVERS

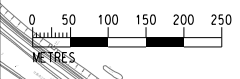
Drawing no. **FIGURE 3.2** Rev. **E**





Drawn	Date	Checked	Approved
GL	03/19	EL	FC
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PRELIMINARY			

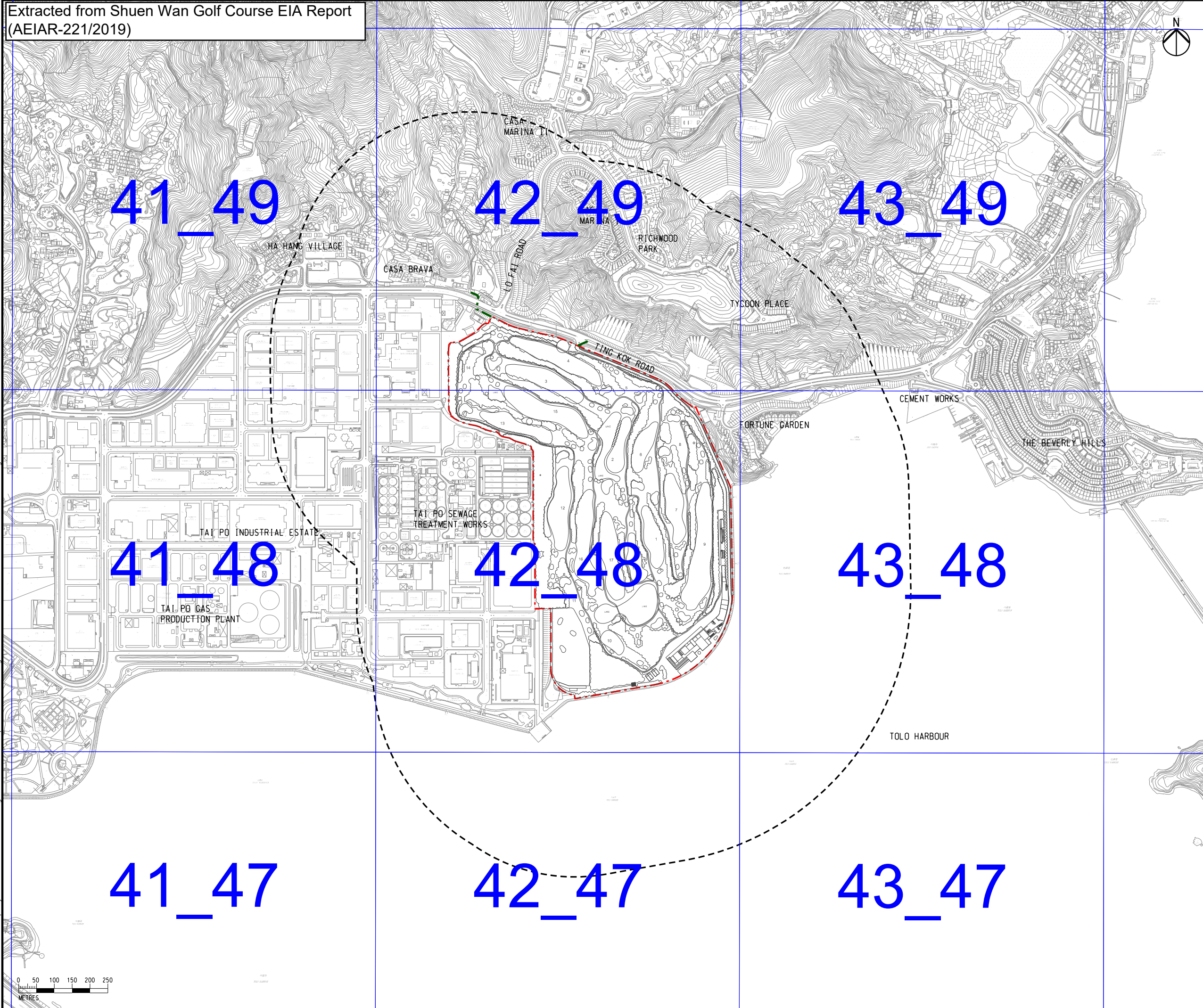
COPYRIGHT RESERVED

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Printed by : 3/18/2019
Filename : G:\env\project\256383\13 Drawing Deliverables\report\002 EIA\Figure 3.2 - Key Representative Air Sensitive Receivers.dgn



- LEGEND
-  PROJECT BOUNDARY
 -  PROPOSED DRAINAGE / SEWERAGE / WATERWORKS OUTSIDE SITE BOUNDARY
 -  500m ASSESSMENT AREA
 -  PATH GRID



D	FOURTH ISSUE	GL	03/19
C	THIRD ISSUE	GL	01/19
B	SECOND ISSUE	GL	07/18
A	FIRST ISSUE	GL	04/18
Rev	Description	By	Date

Consultant
ARUP

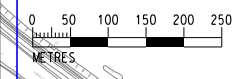
Contract No. and Title
SHUEN WAN GOLF COURSE

Drawing title
LOCATION OF CONCERNED PATH GRIDS

Drawing no. FIGURE 3.1		Rev. D	
Drawn GL	Date 03/19	Checked EL	Approved FC
Scale 1:10000 @A3		Status PRELIMINARY	

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SHA LO TUNG DEVELOPMENT COMPANY LIMITED

Printed by : 3/18/2019
Filename : G:\env\project\256383\13 Drawing Deliverables\report\002 EIA\Figure 3.1 - Location of concerned PATH Grids.dgn

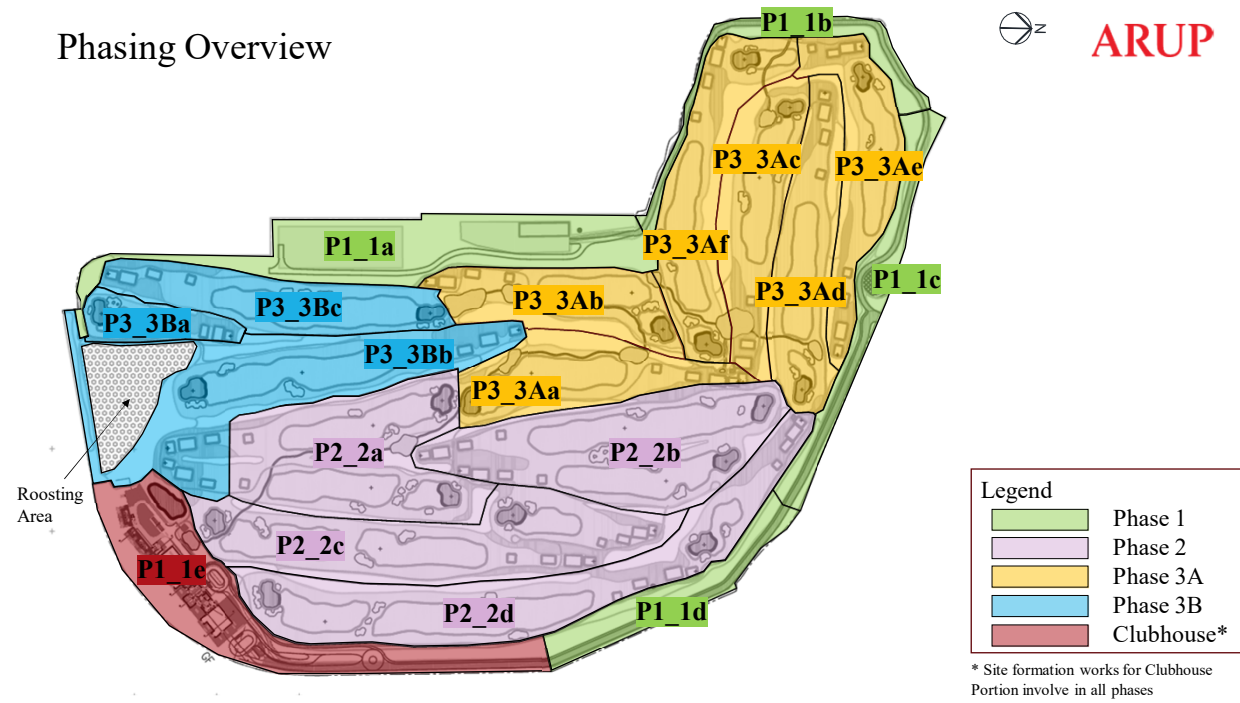


Appendix 2.2

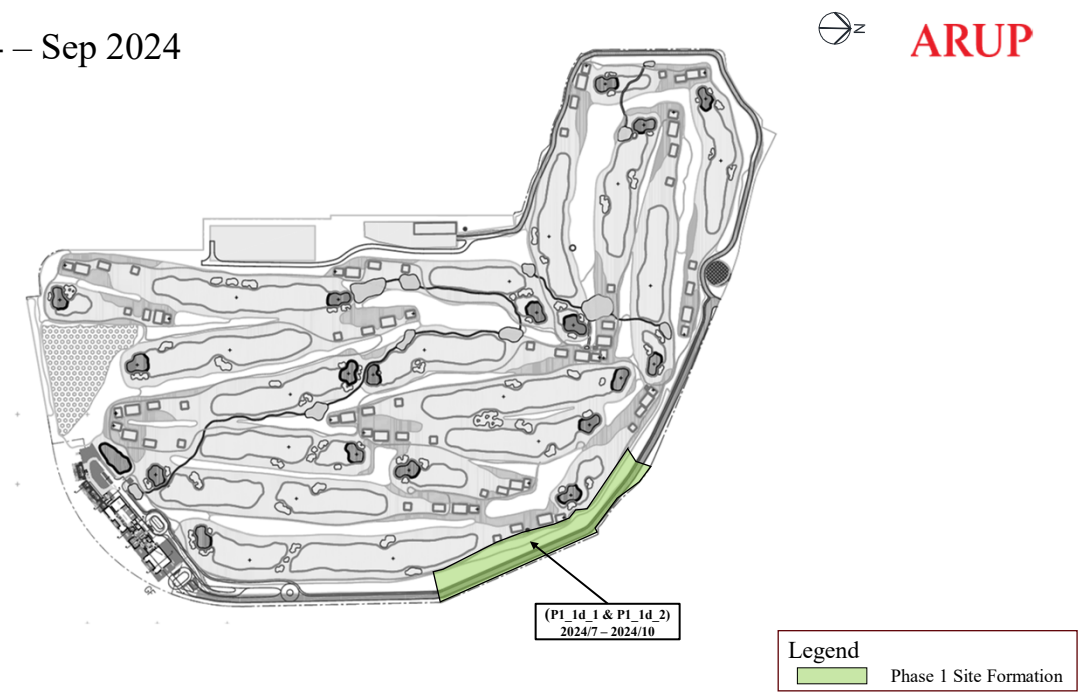
Updated Construction Programme and Phasing

Work sequence for site formation

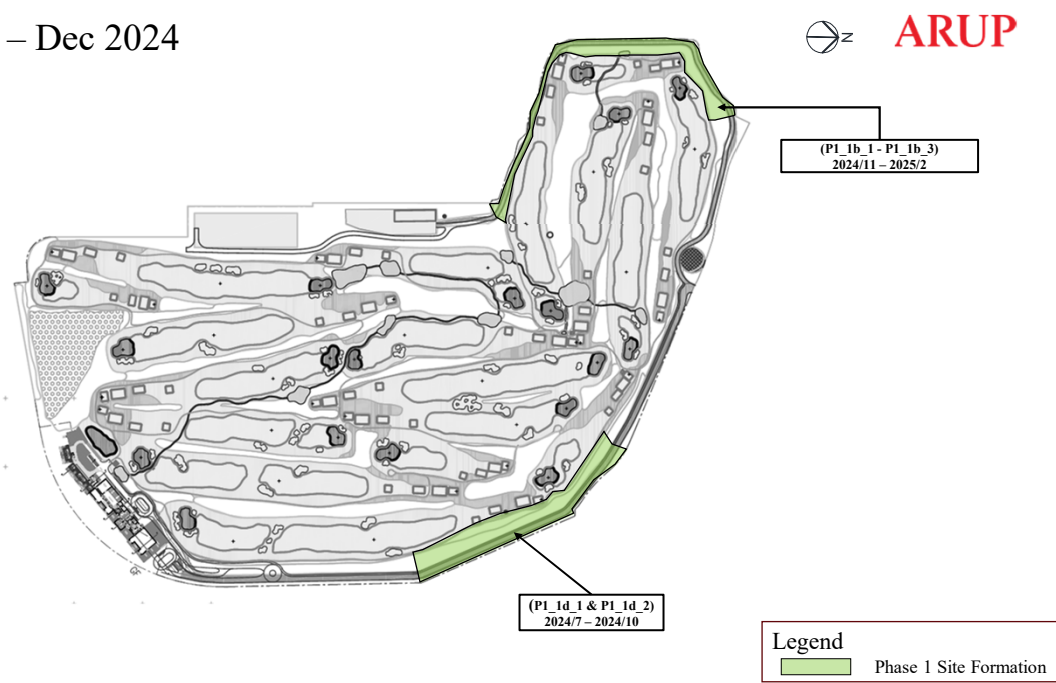
Phasing Overview



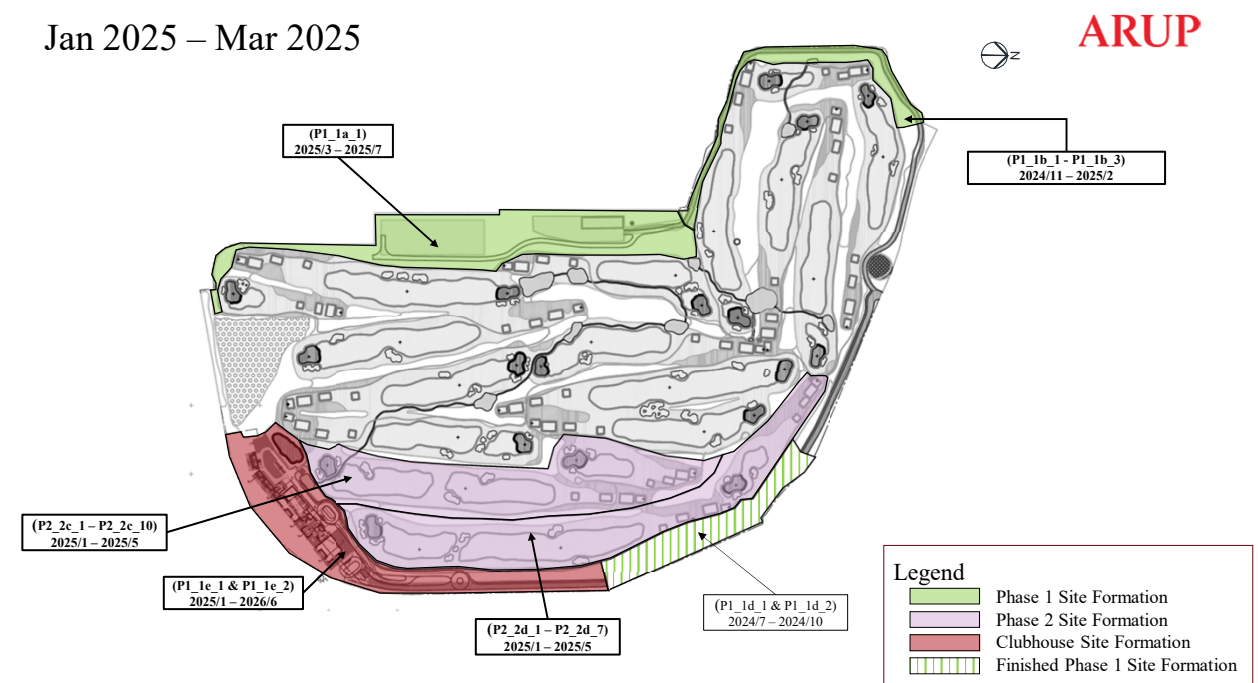
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Oct 2024 – Dec 2024



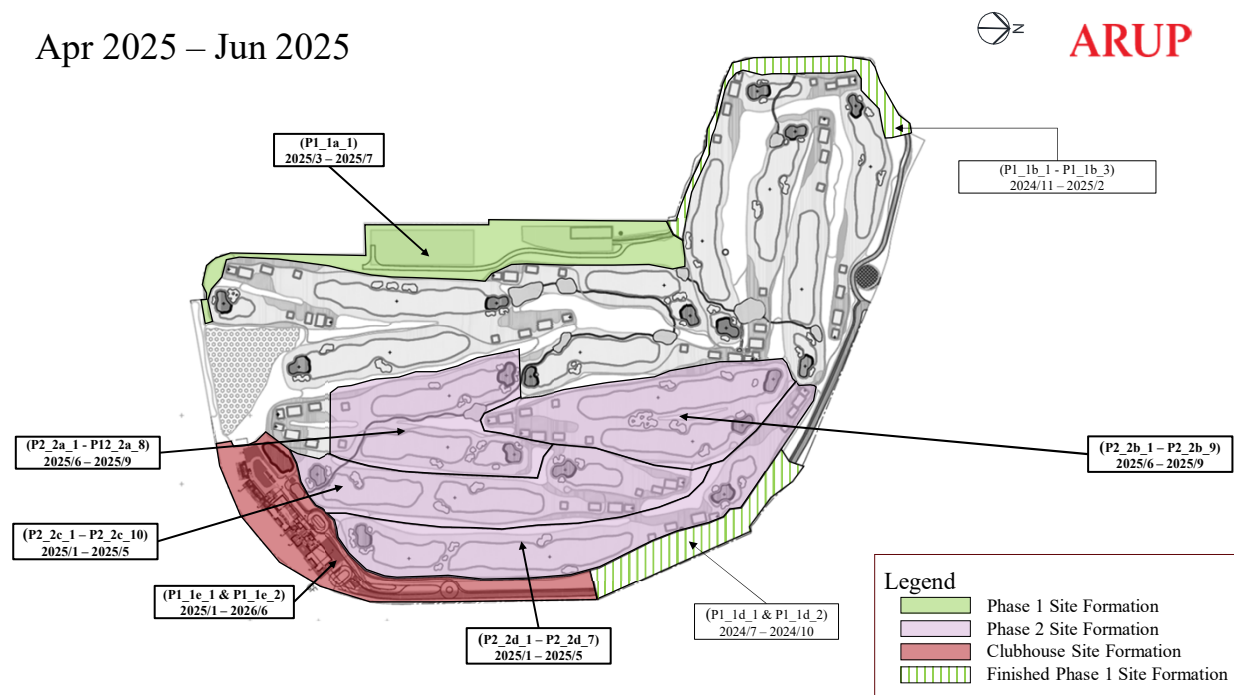
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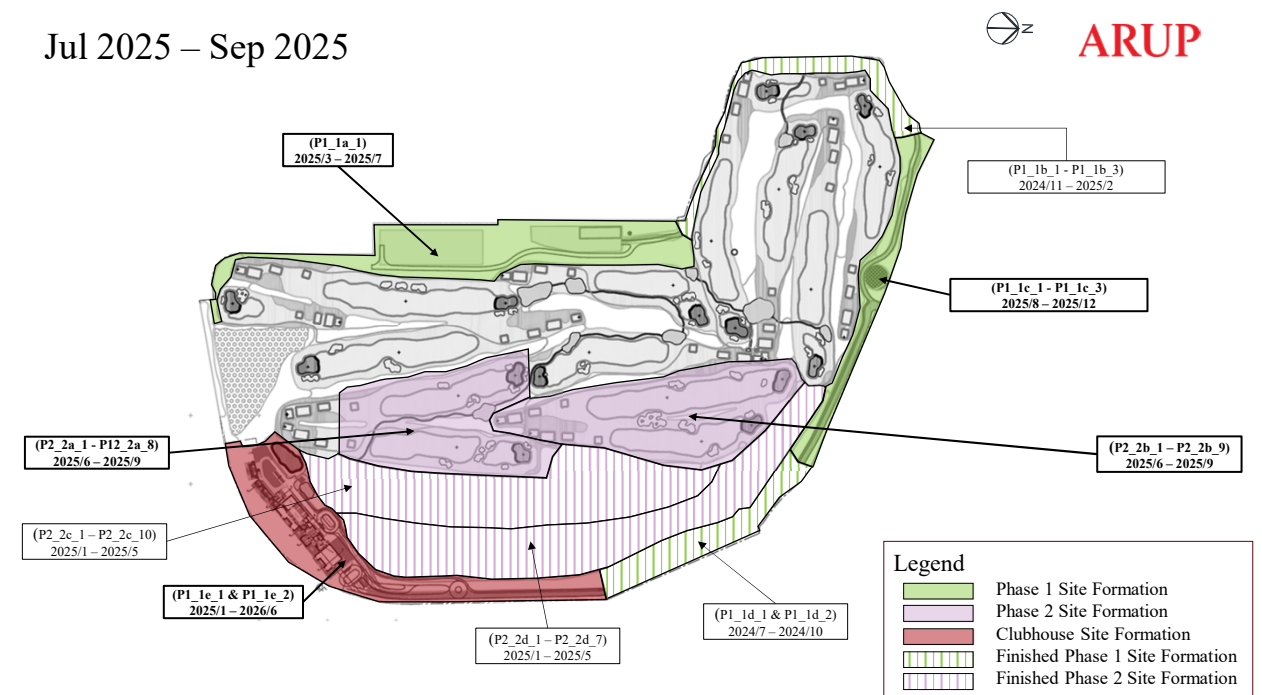
Note:
There will be no emissions from Finished Works Area for site formation.

Work sequence for site formation

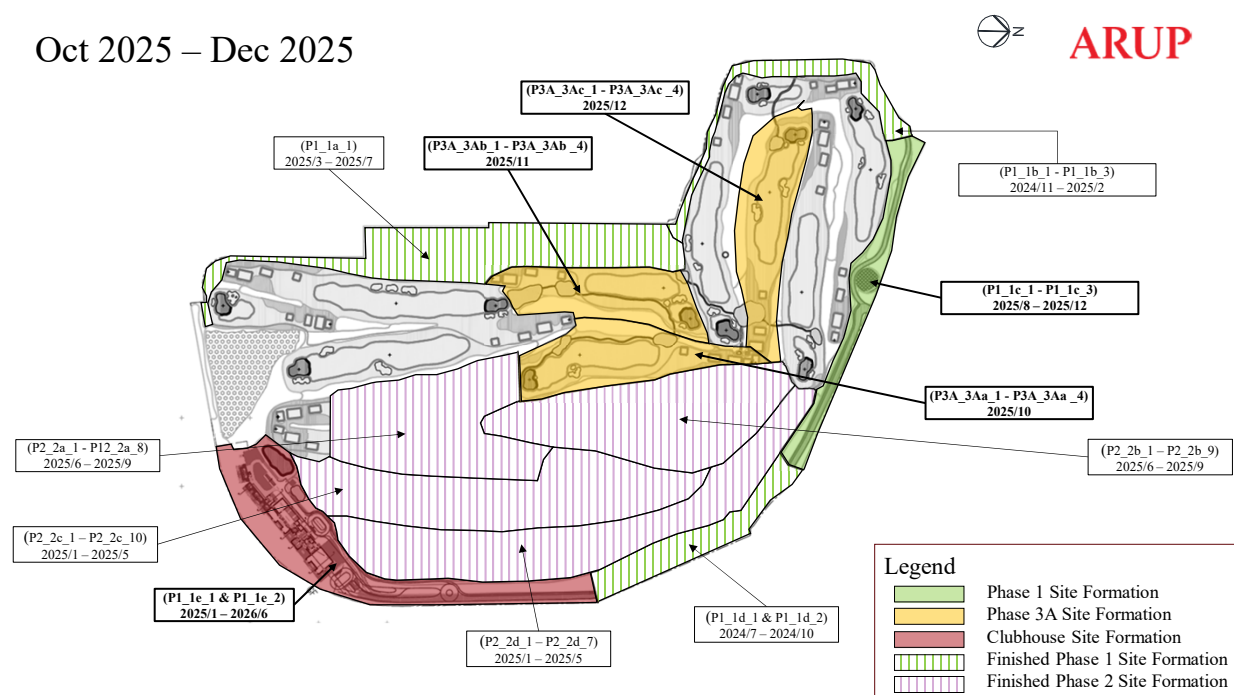
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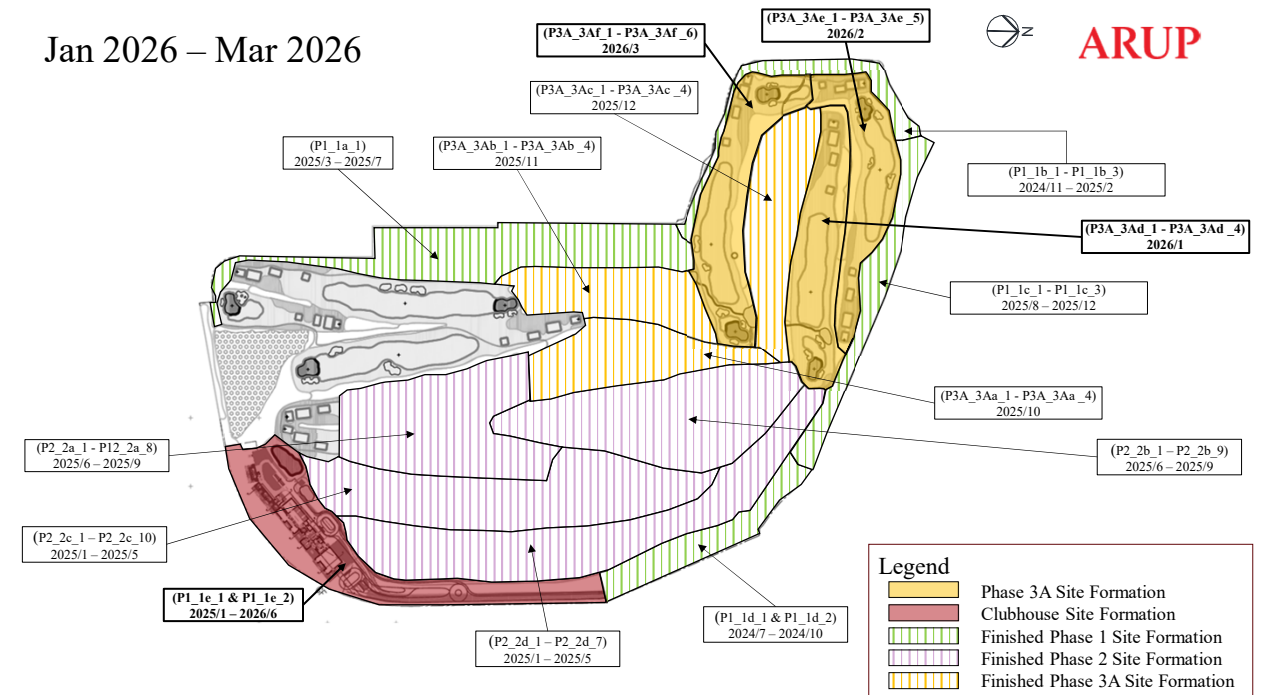
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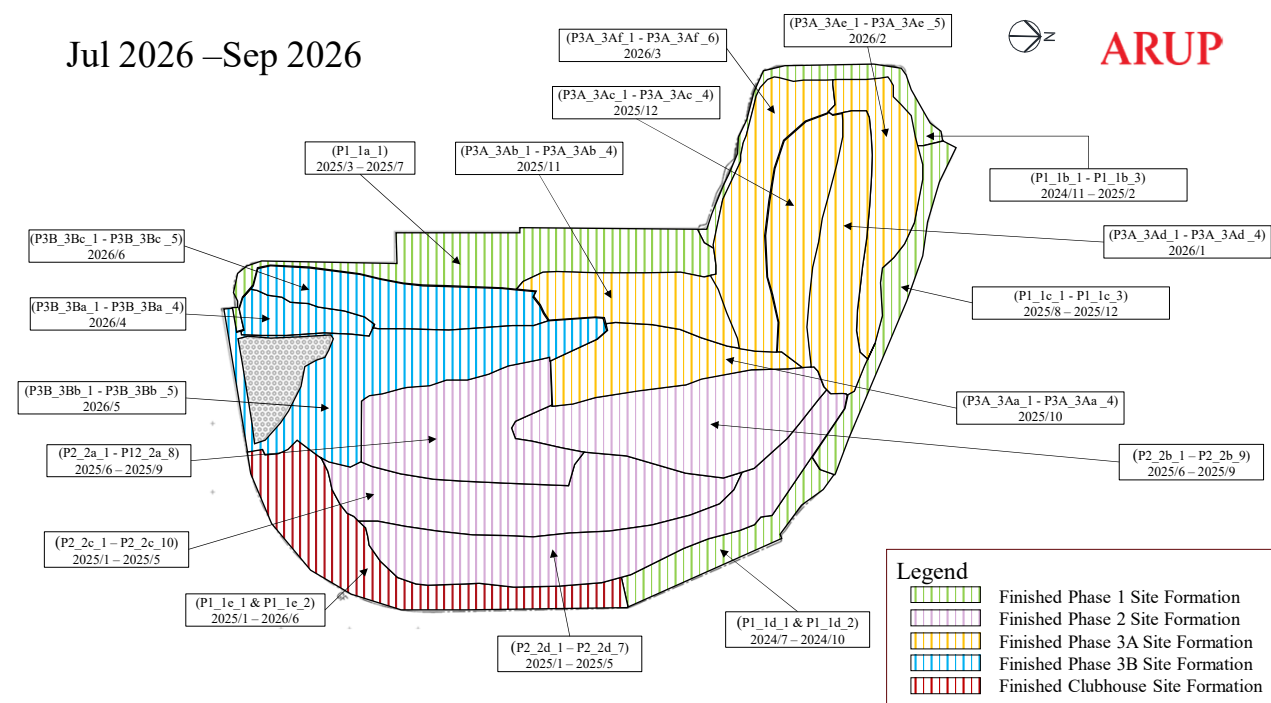
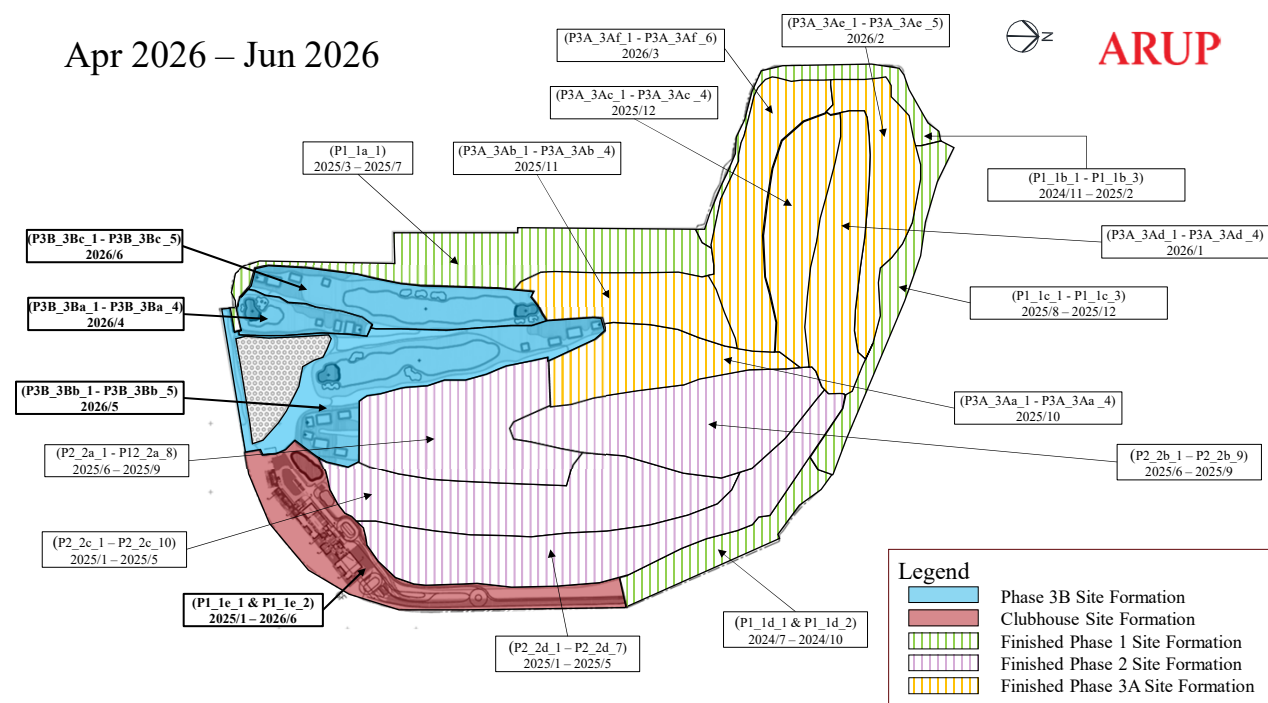


Jan 2026 – Mar 2026



Note:
There will be no emissions from Finished Works Area for site formation.

Work sequence for site formation

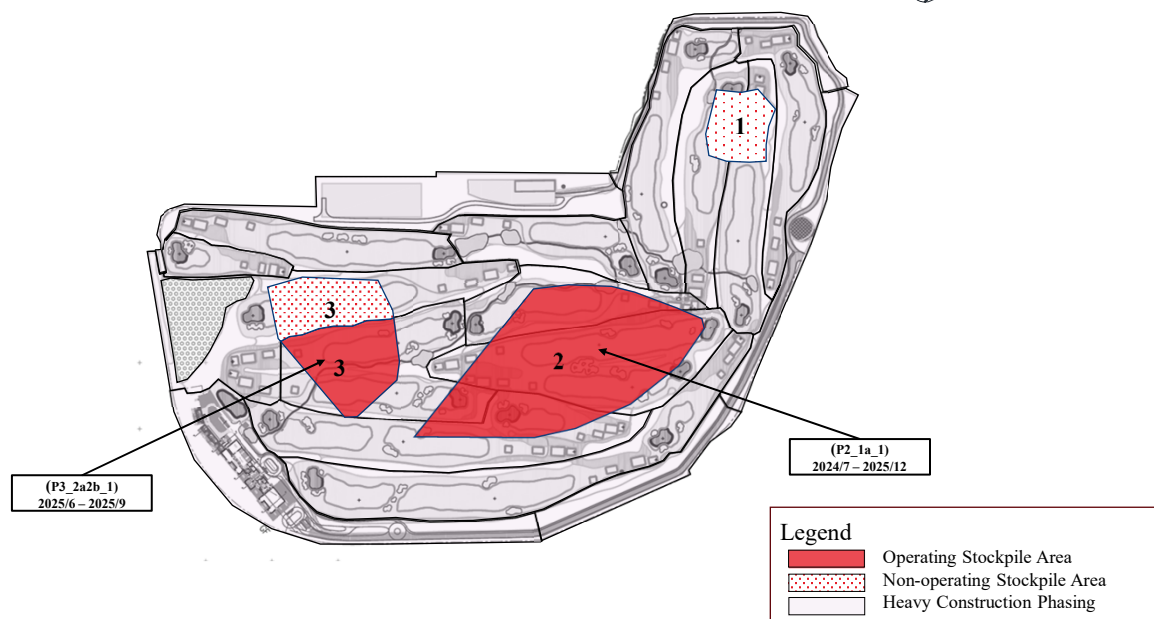


Note:
There will be no emissions from Finished Works Area for site formation.

Work sequence for stockpile area

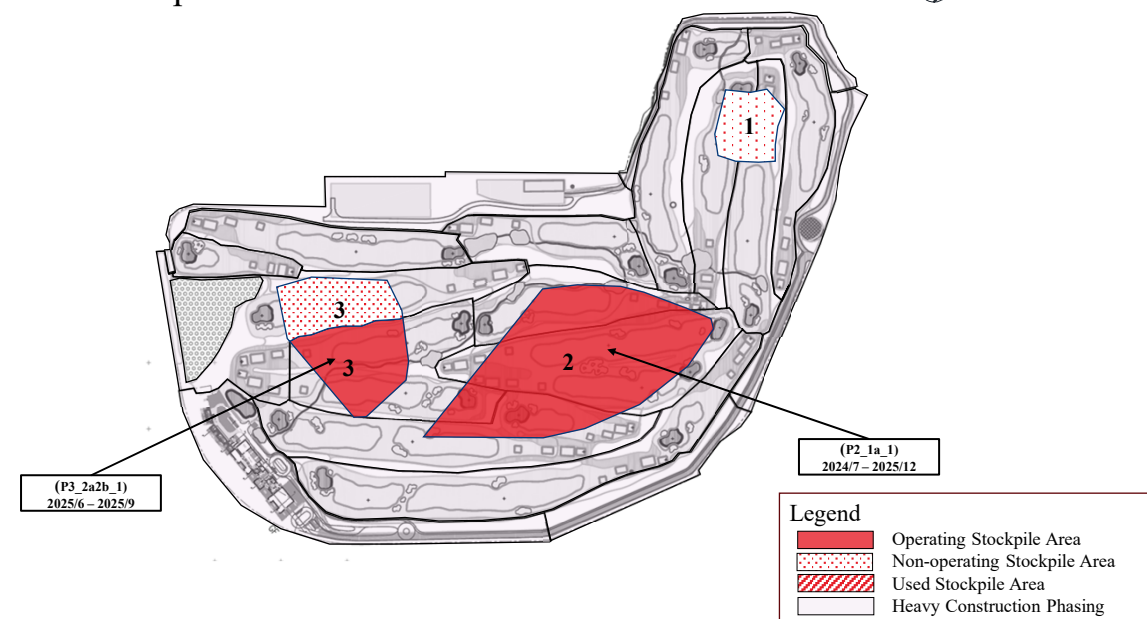
Apr 2025 – Jun 2025

ARUP



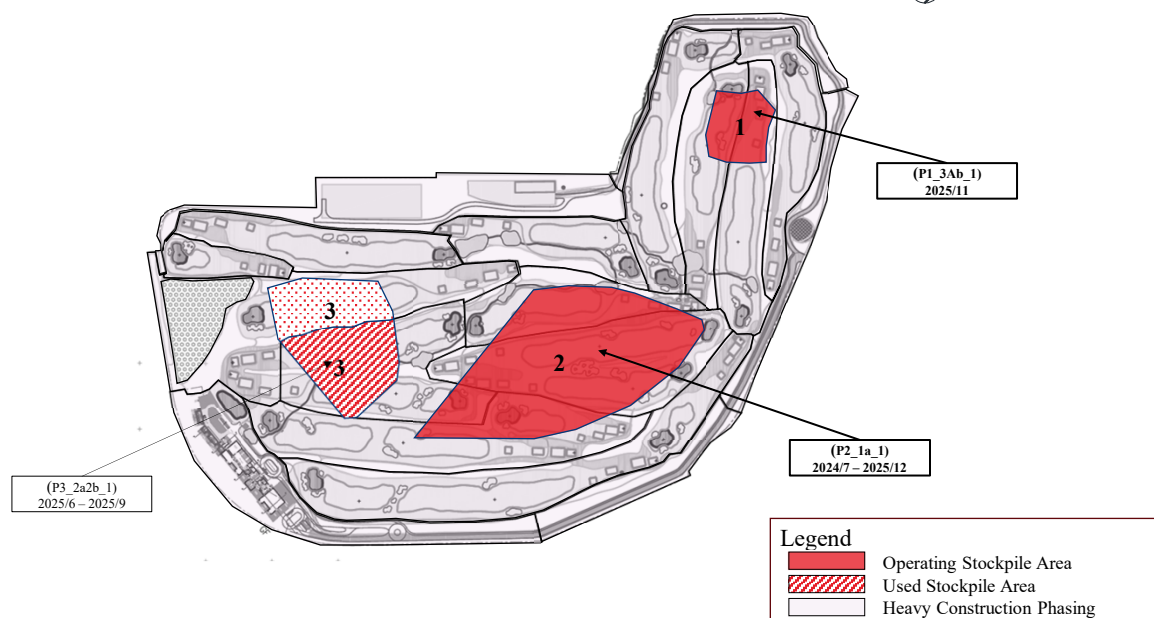
Jul 2025 – Sep 2025

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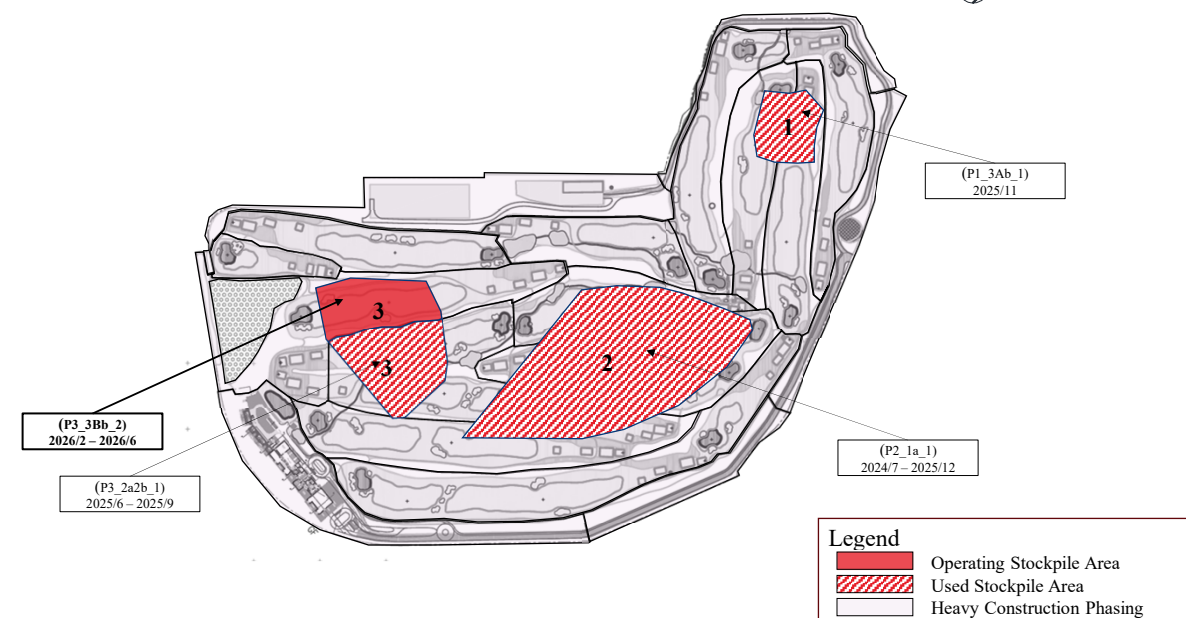
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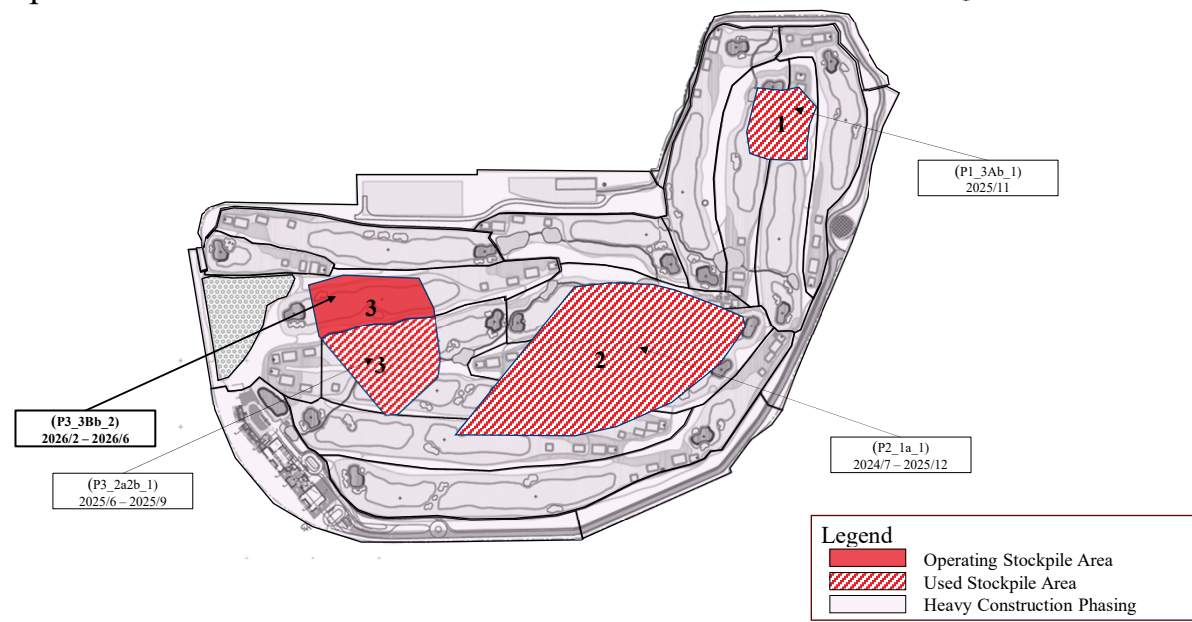
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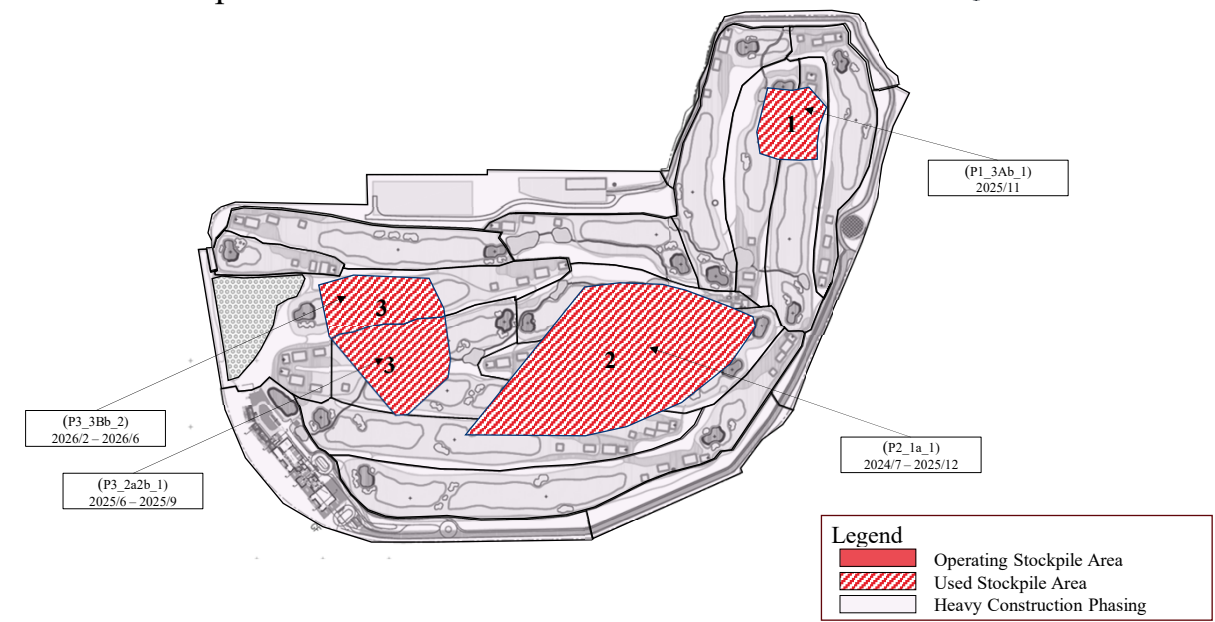
Note:
There will be no emissions from Non-operating Stockpile Area and Used Stockpile Area.

Work sequence for stockpile area

Apr 2026 – Jun 2026



Jul 2026 – Sep 2026



Note:
There will be no emissions from Non-operating Stockpile Area and Used Stockpile Area.

Appendix 2.3

Dust Emission Inventory and Source Locations

Annex – 1

Emissions Calculation Extracted from Shuen Wan
Golf Course EIA Report (AEIAR-221/2019)

Calculation of Emission factor for Heavy Construction

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 = TSP Emission Factor

Assume

Mitigated (Working Hours)

Active operating area (%):	100	assumed all works area are in full operation
Mitigation efficiency (%):	91.70%	watering once per hour (Refer to Appendix 3.6 for justification)
E (g/sq.m/day):	0.7442	Assume 30 working days per month and 12 working hours a day
E (g/sq.m/s):	0.00001723	calculated (TSP), 12 working hours per day
	0.00000815	calculated (RSP) (mitigated), 47.3% of TSP
	0.00000124	calculated (FSP) (mitigated), 7.2% of TSP

Unmitigated

Active operating area (%):	100	assumed all works area are in full operation
Mitigation efficiency (%):	0.00%	unmitigated scenario
E (g/sq.m/day):	8.9667	Assume 30 working days per month and 12 working hours a day
E (g/sq.m/s):	0.00020756	calculated (TSP), 12 working hours per day
	0.00009818	calculated (RSP), 47.3% of TSP
	0.00001494	calculated (FSP), 7.2% of TSP

Calculation of Emission factor for Wind Erosion

E = 0.85 Mg/hectare/year (ref : AP-42 S11.9, Table 11.9.4)
 or = 0.2329 g/sqm/day

Where
 E = TSP Emission Factor

Assume

Unmitigated (Non-working Hours)

Active operating area (%):	100	assumed all works area are in full operation
Mitigation efficiency (%):	0.00%	no mitigation measure during non-working hours and unmitigated scenario
E (g/sq.m/hour)	0.009703196	calculated as in AP-42 (without mitigation measure)
E (g/sq.m/s)	0.00000270	calculated (TSP) (unmitigated)
	0.00000127	calculated (RSP), 47.3% of TSP
	0.00000019	calculated (FSP), 7.2% of TSP

Table 1 Particle size distribution assumed in AERMOD

Particle Size (μm)	Average Particle Size (μm)	Particle Size Distribution		
		TSP	RSP	FSP
0 – 2.5	1.25	7%	15%	100%
2.5 – 5	3.75	20%	42%	-
5 – 10	7.5	20%	43%	-
10 – 15	12.5	18%	-	-
15 – 30	22.5	35%	-	-
Total		100%	100%	100%

Reference:

Table 3.8 of Shuen Wan Golf Course EIA Report (AEIAR-221/2019)

Annex – 2

Location and Details of Dust Emissions
associated with the Project

Table 2 Location and Detail of Worksites (Dust Sources associated with the Project)

Phase	Work Fronts	Source ID	Source Type	Coordinates of		Base Elevation	Release Height	No. of Vertices	TSP Emission Rate (g/s/sq.m)				RSP Emission Rate (g/s/sq.m)				FSP Emission Rate (g/s/sq.m)			
				X	Y	Z			Heavy Construction		Wind Erosion		Heavy Construction		Wind Erosion		Heavy Construction		Wind Erosion	
						(m)	(m)		Working Hours	Non-working Hours	Working Hours	Non-working Hours	Working Hours	Non-working Hours	Working Hours	Non-working Hours	Working Hours	Non-working Hours	Working Hours	Non-working Hours
Phase 1	1a	P1_1a_1	AREAPOLY	837964.8	834822.267	19.3	0	30	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	1b	P1_1b_1	AREAPOLY	837690.9	835501.439	15	0	14	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	1b	P1_1b_2	AREAPOLY	837694.9	835693.55	11	0	17	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	1b	P1_1b_3	AREAPOLY	837694.9	835693.55	8	3	13	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	1c	P1_1c_1	AREAPOLY	837968.4	835731.699	15	0	9	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	1c	P1_1c_2	AREAPOLY	838032.8	835706.35	20	2.4	8	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	1c	P1_1c_3	AREAPOLY	838033.2	835683.68	18	2.4	9	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	1d	P1_1d_1	AREAPOLY	838369.7	835520.554	15.5	2.4	7	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	1d	P1_1d_2	AREAPOLY	838369.7	835520.554	10.2	0	10	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	Phase 2	2a	P2_2a_1	AREAPOLY	838207.5	835138.23	33.9	0	11	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124		
2a		P2_2a_2	AREAPOLY	838209.6	835072.378	33	0	6	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2a		P2_2a_3	AREAPOLY	838212.2	834992.276	29.5	0	7	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2a		P2_2a_4	AREAPOLY	838155.4	834988.886	29	0	6	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2a		P2_2a_5	AREAPOLY	838289.6	835133.266	30.9	0	10	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2a		P2_2a_6	AREAPOLY	838284	835062.427	33.7	0	5	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2a		P2_2a_7	AREAPOLY	838276.1	834981.425	30.9	0	5	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2a		P2_2a_8	AREAPOLY	838276.1	834981.425	28.2	0	7	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2b		P2_2b_1	AREAPOLY	838197.8	835456.833	40.8	0	11	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2b		P2_2b_2	AREAPOLY	838141.9	835451.955	42.5	0	7	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2b		P2_2b_3	AREAPOLY	838155.8	835353.448	40.8	0	6	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2b		P2_2b_4	AREAPOLY	838163.9	835271.752	39.2	0	5	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2b		P2_2b_5	AREAPOLY	838178.8	835213.204	38.2	0	10	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2b		P2_2b_6	AREAPOLY	838277.6	835483.161	39.4	0	6	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2b		P2_2b_7	AREAPOLY	838273.7	835402.063	41.5	0	7	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2b		P2_2b_8	AREAPOLY	838203.1	835398.656	40.6	0	6	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2b		P2_2b_9	AREAPOLY	838248.8	835309.394	39.2	0	8	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2c		P2_2c_1	AREAPOLY	838314	835360.687	37.5	0	6	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2c		P2_2c_10	AREAPOLY	838321.9	834896.718	24.5	0	7	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2c		P2_2c_2	AREAPOLY	838303.2	835285.922	38	0	6	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2c		P2_2c_3	AREAPOLY	838303.2	835285.922	38.8	0	8	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2c		P2_2c_4	AREAPOLY	838357.7	835288.626	37.3	0	7	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2c		P2_2c_5	AREAPOLY	838364.2	835215.138	35.8	0	5	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2c		P2_2c_6	AREAPOLY	838365.6	835142.279	35.6	0	5	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2c		P2_2c_7	AREAPOLY	838365.6	835142.279	35.5	0	7	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2c		P2_2c_8	AREAPOLY	838360.1	835028.175	29.5	0	6	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2c		P2_2c_9	AREAPOLY	838354.4	834939.074	26.5	0	6	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2d		P2_2d_1	AREAPOLY	838231	835579.043	24.6	0	9	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2d		P2_2d_2	AREAPOLY	838341.4	835488.159	24	0	14	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2d		P2_2d_3	AREAPOLY	838395	835377.265	27	0	8	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2d		P2_2d_4	AREAPOLY	838426.3	835289.721	24.4	0	8	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2d		P2_2d_5	AREAPOLY	838437.3	835188.247	24.5	0	7	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2d	P2_2d_6	AREAPOLY	838436.6	835043.261	23.5	0	7	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019	
2d	P2_2d_7	AREAPOLY	838436.6	835043.261	22.5	0	14	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019	
Phase 3A	3Aa	P3A_3Aa_1	AREAPOLY	838144.9	835424.467	38.9	0	12	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Aa	P3A_3Aa_2	AREAPOLY	838156.9	835325.849	39.3	0	7	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Aa	P3A_3Aa_3	AREAPOLY	838057.2	835318.687	39.5	0	12	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Aa	P3A_3Aa_4	AREAPOLY	838097.1	835220.271	38.2	0	8	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Ab	P3A_3Ab_1	AREAPOLY	838075.3	835402.745	32.5	0	7	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Ab	P3A_3Ab_2	AREAPOLY	838068.5	835379.074	25.5	0	7	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Ab	P3A_3Ab_3	AREAPOLY	838041.5	835282.914	24.8	0	6	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Ab	P3A_3Ab_4	AREAPOLY	837981.7	835279.737	23.7	0	14	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Ac	P3A_3Ac_1	AREAPOLY	837835.8	835610.116	36.5	0	9	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Ac	P3A_3Ac_2	AREAPOLY	837919.1	835588.288	36.2	0	8	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Ac	P3A_3Ac_3	AREAPOLY	837989.2	835575.059	34.3	0	6	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Ac	P3A_3Ac_4	AREAPOLY	837990.1	835512.783	33	0	10	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Ad	P3A_3Ad_1	AREAPOLY	837891.2	835656.826	36.3	0	13	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Ad	P3A_3Ad_2	AREAPOLY	837998.6	835640.923	33.6	0	6	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Ad	P3A_3Ad_3	AREAPOLY	838070.4	835636.134	30.1	0	7	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Ad	P3A_3Ad_4	AREAPOLY	838071.8	835688.882	29.9	0	12	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Ae	P3A_3Ae_1	AREAPOLY	837757	835643.189	18.2	0	11	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Ae	P3A_3Ae_2	AREAPOLY	837807.5	835659.407	22.3	0	7	0.00001723			0.00000								

Phase	Work Fronts	Source ID	Source Type	Coordinates of		Base Elevation	Release Height	No. of Vertices	TSP Emission Rate (g/s/sq.m)				RSP Emission Rate (g/s/sq.m)				FSP Emission Rate (g/s/sq.m)			
				X	Y	Z			Heavy Construction		Wind Erosion		Heavy Construction		Wind Erosion		Heavy Construction		Wind Erosion	
						(m)	(m)		Working Hours	Non-working Hours	Working Hours	Non-working Hours	Working Hours	Non-working Hours	Working Hours	Non-working Hours	Working Hours	Non-working Hours	Working Hours	Non-working Hours
Phase 3B	3Ba	P3B_3Ba_1	AREAPOLY	838071.6	834866.428	29.5	0	8	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Ba	P3B_3Ba_2	AREAPOLY	838071.6	834866.428	24.5	0	6	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Ba	P3B_3Ba_3	AREAPOLY	838071	834821.804	21	0	7	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Ba	P3B_3Ba_4	AREAPOLY	838075.7	834769.127	17.5	0	11	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Bb	P3B_3Bb_1	AREAPOLY	838086.5	835219.033	35	0	9	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Bb	P3B_3Bb_2	AREAPOLY	838139.6	835077.3	31	0	11	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Bb	P3B_3Bb_3	AREAPOLY	838174.1	834948.548	28.8	0	10	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Bb	P3B_3Bb_4	AREAPOLY	838070.1	834930.072	28.2	0	11	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Bb	P3B_3Bb_5	AREAPOLY	838178.9	834916.452	26.1	0	12	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Bc	P3B_3Bc_1	AREAPOLY	838065.4	835081.955	27.2	0	7	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Bc	P3B_3Bc_2	AREAPOLY	838069.9	834971.308	26.3	0	6	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Bc	P3B_3Bc_3	AREAPOLY	838069.9	834971.308	23	0	9	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Bc	P3B_3Bc_4	AREAPOLY	838044.6	834897.711	19.8	0	6	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	3Bc	P3B_3Bc_5	AREAPOLY	838023.5	834832.665	18.1	0	8	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
	Clubhouse	Clubhouse	P1_1e_1	AREAPOLY	838472.5	834980.474	5.5	0	7	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124		
Clubhouse		P1_1e_2	AREAPOLY	838472.5	834980.474	8.85	0	25	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019

Location of Vertexes (AERMOD input formation)

SRCPARAM P1_1a_1	1.00	0.000	30
AREAVERT P1_1a_1	837964.827	834822.267	837964.827 834965.706 837961.622 834975.064 837930.665 834975.858 837929.475 835148.896
AREAVERT P1_1a_1	837978.687	835148.102	837965.193 835169.533 837924.447 835168.601 837926.040 835336.185 837944.471 835335.933
AREAVERT P1_1a_1	837943.418	835369.643	837932.153 835413.715 837937.989 835418.206 837942.013 835410.158 837950.316 835367.365
AREAVERT P1_1a_1	837950.508	835346.863	837952.097 835250.496 837981.731 835279.737 837981.862 835191.361 837989.800 835158.421
AREAVERT P1_1a_1	837996.150	835149.292	838001.871 835149.020 838001.432 835085.989 838001.178 835018.424 837992.889 834972.097
AREAVERT P1_1a_1	837990.197	834950.458	837987.419 834890.926 837975.909 834873.464 837972.337 834831.395 837964.827 834822.267
SRCPARAM P1_1b_1	1.00	0.000	14
AREAVERT P1_1b_1	837690.873	835501.439	837698.668 835510.417 837730.630 835495.811 837817.543 835467.466 837923.247 835427.655
AREAVERT P1_1b_1	837936.763	835418.091	837930.627 835412.268 837921.765 835421.516 837868.002 835437.815 837818.895 835461.945
AREAVERT P1_1b_1	837788.236	835465.774	837750.947 835480.077 837716.045 835488.553 837690.873 835501.439
SRCPARAM P1_1b_2	1.00	0.000	17
AREAVERT P1_1b_2	837694.875	835693.550	837692.229 835641.427 837699.108 835609.677 837694.346 835598.829 837698.314 835569.460
AREAVERT P1_1b_2	837693.023	835547.500	837687.202 835544.325 837687.230 835526.537 837690.659 835516.078 837698.668 835510.417
AREAVERT P1_1b_2	837690.873	835501.439	837681.930 835515.560 837681.091 835529.077 837677.204 835669.927 837679.053 835706.556
AREAVERT P1_1b_2	837682.320	835710.067	837694.875 835693.550
SRCPARAM P1_1b_3	1.00	3.000	13
AREAVERT P1_1b_3	837694.875	835693.550	837682.320 835710.067 837707.747 835714.965 837751.572 835740.317 837765.612 835754.497
AREAVERT P1_1b_3	837788.857	835765.180	837792.771 835743.821 837772.662 835741.705 837750.173 835722.390 837741.856 835724.836
AREAVERT P1_1b_3	837705.648	835705.687	837702.412 835697.682 837694.875 835693.550
SRCPARAM P1_1c_1	1.00	0.000	9
AREAVERT P1_1c_1	837968.448	835731.699	837958.048 835718.516 837883.038 835740.344 837831.482 835751.382 837792.771 835743.821
AREAVERT P1_1c_1	837788.857	835765.180	837798.605 835785.586 837857.528 835757.813 837968.448 835731.699
SRCPARAM P1_1c_2	1.00	2.400	8
AREAVERT P1_1c_2	838032.810	835706.350	838033.226 835683.680 838012.817 835677.240 837998.321 835677.434 837979.289 835683.538
AREAVERT P1_1c_2	837958.048	835718.516	837968.448 835731.699 838032.810 835706.350
SRCPARAM P1_1c_3	1.00	2.400	9
AREAVERT P1_1c_3	838033.226	835683.680	838032.810 835706.350 838227.706 835626.159 838287.930 835597.282 838280.290 835589.412
AREAVERT P1_1c_3	838091.170	835672.567	838072.517 835678.123 838041.561 835679.314 838033.226 835683.680
SRCPARAM P1_1d_1	1.00	2.400	7
AREAVERT P1_1d_1	838369.687	835520.554	838357.208 835512.308 838334.057 835537.774 838280.290 835589.411 838287.930 835597.282
AREAVERT P1_1d_1	838322.943	835562.177	838369.687 835520.554
SRCPARAM P1_1d_2	1.00	0.000	10
AREAVERT P1_1d_2	838369.687	835520.554	838428.159 835401.091 838469.215 835306.516 838470.284 835254.030 838445.271 835256.362
AREAVERT P1_1d_2	838443.764	835286.930	838449.647 835292.620 838417.897 835373.318 838357.208 835512.308 838369.687 835520.554
SRCPARAM P1_1e_1	1.00	0.000	7
AREAVERT P1_1e_1	838472.517	834980.474	838446.884 834991.011 838449.662 835012.442 838445.271 835256.362 838470.284 835254.030
AREAVERT P1_1e_1	838474.909	835008.692	838472.517 834980.474
SRCPARAM P1_1e_2	1.00	0.000	25
AREAVERT P1_1e_2	838472.517	834980.474	838465.420 834946.249 838447.951 834899.469 838429.043 834866.754 838402.314 834833.119
AREAVERT P1_1e_2	838382.498	834813.972	838327.705 834776.921 838338.140 834798.526 838309.962 834774.714 838302.024 834772.729
AREAVERT P1_1e_2	838255.987	834759.633	838250.034 834779.476 838230.929 834800.168 838219.817 834817.630 838325.837 834889.411
AREAVERT P1_1e_2	838324.249	834877.901	838328.218 834870.361 838339.331 834881.076 838341.000 834896.275 838357.351 834910.657
AREAVERT P1_1e_2	838376.240	834914.017	838406.364 834946.600 838426.643 834955.689 838446.884 834991.011 838472.517 834980.474
SRCPARAM P2_2a_1	1.00	0.000	11
AREAVERT P2_2a_1	838207.530	835138.230	838127.492 835115.387 838117.130 835146.799 838112.809 835186.671 838128.237 835189.879
AREAVERT P2_2a_1	838155.261	835192.831	838182.970 835196.098 838188.050 835174.065 838191.271 835161.298 838195.856 835152.047
AREAVERT P2_2a_1	838207.530	835138.230	
SRCPARAM P2_2a_2	1.00	0.000	6
AREAVERT P2_2a_2	838209.645	835072.378	838146.291 835049.422 838137.888 835084.622 838127.492 835115.387 838207.530 835138.230
AREAVERT P2_2a_2	838209.645	835072.378	
SRCPARAM P2_2a_3	1.00	0.000	7
AREAVERT P2_2a_3	838212.217	834992.276	838155.391 834988.886 838149.357 835005.025 838145.382 835031.709 838146.291 835049.422
AREAVERT P2_2a_3	838209.645	835072.378	838212.217 834992.276
SRCPARAM P2_2a_4	1.00	0.000	6
AREAVERT P2_2a_4	838155.391	834988.886	838212.217 834992.276 838214.848 834910.352 838178.938 834916.452 838174.149 834948.548
AREAVERT P2_2a_4	838155.391	834988.886	
SRCPARAM P2_2a_5	1.00	0.000	10
AREAVERT P2_2a_5	838289.646	835133.266	838207.530 835138.230 838219.701 835139.553 838225.435 835153.456 838222.484 835185.875
AREAVERT P2_2a_5	838235.576	835190.353	838250.657 835216.018 838281.084 835212.578 838291.403 835204.906 838289.646 835133.266

SRCPARAM P2_2a_6	1.00	0.000	5
AREAVERT P2_2a_6	838284.011	835062.427	838209.645 835072.378 838207.530 835138.230 838289.646 835133.266 838284.011 835062.427
SRCPARAM P2_2a_7	1.00	0.000	5
AREAVERT P2_2a_7	838276.127	834981.425	838212.217 834992.276 838209.645 835072.378 838284.011 835062.427 838276.127 834981.425
SRCPARAM P2_2a_8	1.00	0.000	7
AREAVERT P2_2a_8	838276.127	834981.425	838268.136 834930.797 838260.437 834907.954 838251.963 834903.355 838214.848 834910.352
AREAVERT P2_2a_8	838212.217	834992.276	838276.127 834981.425
SRCPARAM P2_2b_1	1.00	0.000	11
AREAVERT P2_2b_1	838197.820	835456.833	838141.945 835451.955 838130.735 835484.760 838126.922 835516.919 838128.906 835544.701
AREAVERT P2_2b_1	838122.203	835572.318	838136.490 835589.252 838148.661 835595.072 838175.208 835574.136 838189.099 835552.638
AREAVERT P2_2b_1	838197.820	835456.833	
SRCPARAM P2_2b_2	1.00	0.000	7
AREAVERT P2_2b_2	838141.945	835451.955	838197.820 835456.833 838206.644 835359.883 838155.835 835353.448 838154.352 835377.572
AREAVERT P2_2b_2	838144.928	835424.467	838141.945 835451.955
SRCPARAM P2_2b_3	1.00	0.000	6
AREAVERT P2_2b_3	838155.835	835353.448	838214.162 835277.292 838163.940 835271.752 838156.897 835325.849
AREAVERT P2_2b_3	838155.835	835353.448	
SRCPARAM P2_2b_4	1.00	0.000	5
AREAVERT P2_2b_4	838163.940	835271.752	838214.162 835277.292 838219.489 835218.778 838178.845 835213.204 838163.940 835271.752
SRCPARAM P2_2b_5	1.00	0.000	10
AREAVERT P2_2b_5	838178.845	835213.204	838219.489 835218.778 838225.435 835153.456 838210.701 835139.553 838207.530 835138.230
AREAVERT P2_2b_5	838195.856	835152.047	838190.810 835161.737 838189.009 835169.716 838185.561 835185.354 838178.845 835213.204
SRCPARAM P2_2b_6	1.00	0.000	6
AREAVERT P2_2b_6	838277.562	835483.161	838195.327 835484.215 838189.099 835552.638 838203.133 835546.620 838224.487 835535.440
AREAVERT P2_2b_6	838277.562	835483.161	
SRCPARAM P2_2b_7	1.00	0.000	7
AREAVERT P2_2b_7	838273.693	835402.063	838203.115 835398.656 838195.327 835484.215 838277.562 835483.161 838229.609 835463.367
AREAVERT P2_2b_7	838284.680	835455.073	838273.693 835402.063
SRCPARAM P2_2b_8	1.00	0.000	6
AREAVERT P2_2b_8	838203.115	835398.656	838273.693 835402.063 838266.377 835368.747 838248.756 835309.394 838211.154 835310.343
AREAVERT P2_2b_8	838203.115	835398.656	
SRCPARAM P2_2b_9	1.00	0.000	8
AREAVERT P2_2b_9	838248.756	835309.394	838240.693 835269.864 838252.993 835228.610 838250.657 835216.018 838235.576 835190.353
AREAVERT P2_2b_9	838222.484	835185.875	838211.154 835310.343 838248.756 835309.394
SRCPARAM P2_2c_1	1.00	0.000	6
AREAVERT P2_2c_1	838314.027	835360.687	838266.377 835368.747 838284.680 835455.073 838299.609 835463.367 838325.027 835436.430
AREAVERT P2_2c_1	838314.027	835360.687	
SRCPARAM P2_2c_10	1.00	0.000	7
AREAVERT P2_2c_10	838321.931	834896.718	838292.499 834867.583 838267.255 834850.839 838245.977 834844.807 838251.963 834903.355
AREAVERT P2_2c_10	838263.704	834912.871	838321.931 834896.718
SRCPARAM P2_2c_2	1.00	0.000	6
AREAVERT P2_2c_2	838303.169	835285.922	838246.487 835297.120 838248.756 835309.394 838266.377 835368.747 838314.027 835360.687
AREAVERT P2_2c_2	838303.169	835285.922	
SRCPARAM P2_2c_3	1.00	0.000	8
AREAVERT P2_2c_3	838303.169	835285.922	838291.403 835204.906 838281.084 835212.578 838250.657 835216.018 838252.993 835228.610
AREAVERT P2_2c_3	838240.693	835269.864	838246.487 835297.120 838303.169 835285.922
SRCPARAM P2_2c_4	1.00	0.000	7
AREAVERT P2_2c_4	838357.733	835288.626	838304.445 835294.712 838325.027 835436.430 838342.632 835411.443 838358.346 835355.380
AREAVERT P2_2c_4	838356.455	835311.111	838357.733 835288.626
SRCPARAM P2_2c_5	1.00	0.000	5
AREAVERT P2_2c_5	838364.155	835215.138	838294.103 835223.495 838304.445 835294.712 838357.733 835288.626 838364.155 835215.138
SRCPARAM P2_2c_6	1.00	0.000	5
AREAVERT P2_2c_6	838365.629	835142.279	838288.248 835142.486 838294.103 835223.495 838364.156 835215.138 838365.629 835142.279
SRCPARAM P2_2c_7	1.00	0.000	7
AREAVERT P2_2c_7	838365.629	835142.279	838365.225 835064.338 838360.125 835028.175 838281.698 835030.349 838289.551 835112.301
AREAVERT P2_2c_7	838289.688	835142.372	838365.629 835142.279
SRCPARAM P2_2c_8	1.00	0.000	6

AREAVERT P2_2c_8	838360.125	835028.175	838348.027	834965.780	838354.357	834939.074	838270.444	834944.040	838281.698	835030.349
AREAVERT P2_2c_8	838360.125	835028.175								
SRCPARAM P2_2c_9	1.00	0.000	6							
AREAVERT P2_2c_9	838354.357	834939.074	838337.444	834910.879	838321.931	834896.718	838263.704	834912.871	838270.444	834944.040
AREAVERT P2_2c_9	838354.357	834939.074								
SRCPARAM P2_2d_1	1.00	0.000	9							
AREAVERT P2_2d_1	838231.030	835579.043	838203.133	835546.620	838189.099	835552.638	838175.208	835574.136	838148.661	835595.072
AREAVERT P2_2d_1	838159.195	835608.809	838161.577	835617.937	838204.439	835598.887	838231.030	835579.043		
SRCPARAM P2_2d_2	1.00	0.000	14							
AREAVERT P2_2d_2	838341.362	835488.159	838299.609	835463.367	838277.562	835483.161	838247.917	835512.362	838224.487	835535.440
AREAVERT P2_2d_2	838203.133	835546.620	838231.030	835579.043	838252.858	835568.724	838265.161	835557.215	838289.371	835545.706
AREAVERT P2_2d_2	838307.230	835531.418	838328.265	835520.305	838338.980	835499.668	838341.362	835488.159		
SRCPARAM P2_2d_3	1.00	0.000	8							
AREAVERT P2_2d_3	838395.025	835377.265	838354.215	835367.772	838342.632	835411.443	838325.027	835436.430	838299.609	835463.367
AREAVERT P2_2d_3	838341.362	835488.159	838354.458	835482.206	838395.025	835377.265				
SRCPARAM P2_2d_4	1.00	0.000	8							
AREAVERT P2_2d_4	838426.293	835289.721	838359.616	835266.889	838356.338	835308.389	838358.346	835355.380	838354.215	835367.772
AREAVERT P2_2d_4	838395.025	835377.265	838414.387	835336.155	838426.293	835289.721				
SRCPARAM P2_2d_5	1.00	0.000	7							
AREAVERT P2_2d_5	838437.349	835188.247	838365.238	835180.904	838359.616	835266.889	838426.293	835289.721	838434.230	835264.717
AREAVERT P2_2d_5	838438.596	835209.949	838437.349	835188.247						
SRCPARAM P2_2d_6	1.00	0.000	7							
AREAVERT P2_2d_6	838436.612	835043.261	838363.560	835050.515	838365.566	835075.471	838365.238	835180.904	838437.349	835188.247
AREAVERT P2_2d_6	838434.231	835140.099	838436.612	835043.261						
SRCPARAM P2_2d_7	1.00	0.000	14							
AREAVERT P2_2d_7	838436.612	835043.261	838441.670	835016.068	838441.839	834982.206	838426.643	834955.689	838412.356	834949.736
AREAVERT P2_2d_7	838396.924	834941.661	838383.034	834936.104	838371.841	834939.069	838337.444	834910.879	838354.357	834939.074
AREAVERT P2_2d_7	838348.027	834965.780	838360.125	835028.175	838363.560	835050.515	838436.612	835043.261		
SRCPARAM P3A_3Aa_1	1.00	0.000	12							
AREAVERT P3A_3Aa_1	838144.928	835424.467	838080.779	835425.144	838085.840	835449.602	838098.995	835512.454	838103.699	835534.930
AREAVERT P3A_3Aa_1	838110.314	835563.373	838124.521	835562.766	838128.906	835544.701	838126.922	835516.919	838130.735	835484.760
AREAVERT P3A_3Aa_1	838141.945	835451.955	838144.928	835424.467						
SRCPARAM P3A_3Aa_2	1.00	0.000	7							
AREAVERT P3A_3Aa_2	838156.897	835325.849	838057.224	835318.687	838068.642	835380.810	838080.779	835425.144	838144.928	835424.467
AREAVERT P3A_3Aa_2	838154.352	835377.572	838156.897	835325.849						
SRCPARAM P3A_3Aa_3	1.00	0.000	12							
AREAVERT P3A_3Aa_3	838057.224	835318.687	838156.897	835325.849	838163.940	835271.752	838168.736	835252.913	838097.074	835220.271
AREAVERT P3A_3Aa_3	838086.510	835219.033	838082.121	835227.586	838067.876	835270.302	838060.119	835275.224	838052.852	835276.234
AREAVERT P3A_3Aa_3	838051.330	835287.118	838057.224	835318.687						
SRCPARAM P3A_3Aa_4	1.00	0.000	8							
AREAVERT P3A_3Aa_4	838097.074	835220.271	838168.736	835252.913	838182.970	835196.098	838155.261	835192.831	838128.237	835189.879
AREAVERT P3A_3Aa_4	838112.809	835186.671	838106.345	835193.617	838097.074	835220.271				
SRCPARAM P3A_3Ab_1	1.00	0.000	7							
AREAVERT P3A_3Ab_1	838075.317	835402.745	838019.483	835447.377	838026.308	835450.263	838043.553	835456.012	838075.918	835462.831
AREAVERT P3A_3Ab_1	838085.840	835449.602	838075.317	835402.745						
SRCPARAM P3A_3Ab_2	1.00	0.000	7							
AREAVERT P3A_3Ab_2	838068.497	835379.074	837980.216	835383.622	837982.652	835413.222	837992.560	835435.989	838019.483	835447.377
AREAVERT P3A_3Ab_2	838075.317	835402.745	838068.497	835379.074						
SRCPARAM P3A_3Ab_3	1.00	0.000	6							
AREAVERT P3A_3Ab_3	838041.522	835282.914	837981.731	835279.737	837980.216	835383.622	838068.497	835379.074	838051.330	835287.118
AREAVERT P3A_3Ab_3	838041.522	835282.914								
SRCPARAM P3A_3Ab_4	1.00	0.000	14							
AREAVERT P3A_3Ab_4	837981.731	835279.737	838041.522	835282.914	838051.330	835287.118	838052.852	835276.234	838044.373	835270.380
AREAVERT P3A_3Ab_4	838044.777	835216.079	838048.136	835198.247	838043.506	835178.404	838009.110	835163.190	838001.871	835149.020
AREAVERT P3A_3Ab_4	837996.150	835149.292	837989.800	835158.421	837981.862	835191.361	837981.731	835279.737		
SRCPARAM P3A_3Ac_1	1.00	0.000	9							
AREAVERT P3A_3Ac_1	837835.753	835610.116	837816.327	835526.383	837772.914	835540.663	837759.023	835554.554	837754.144	835592.981
AREAVERT P3A_3Ac_1	837760.346	835621.361	837778.206	835622.023	837819.878	835610.116	837835.753	835610.116		
SRCPARAM P3A_3Ac_2	1.00	0.000	8							

AREAVERT P3A_3Ac_2	837919.097	835588.288	837909.234	835509.047	837888.170	835511.963	837816.327	835526.383	837835.753	835610.116
AREAVERT P3A_3Ac_2	837858.242	835608.132	837871.471	835599.533	837919.097	835588.288				
SRCPARAM P3A_3Ac_3	1.00	0.000	6							
AREAVERT P3A_3Ac_3	837989.211	835575.059	837990.118	835512.783	837926.373	835506.929	837909.234	835509.047	837919.097	835588.288
AREAVERT P3A_3Ac_3	837989.211	835575.059								
SRCPARAM P3A_3Ac_4	1.00	0.000	10							
AREAVERT P3A_3Ac_4	837990.118	835512.783	837989.211	835575.059	838036.175	835568.444	838071.819	835568.882	838096.707	835568.729
AREAVERT P3A_3Ac_4	838110.314	835563.373	838103.699	835534.930	838090.681	835525.888	838044.136	835520.394	837990.118	835512.783
SRCPARAM P3A_3Ad_1	1.00	0.000	13							
AREAVERT P3A_3Ad_1	837891.193	835656.826	837884.993	835596.189	837871.471	835599.382	837858.242	835607.981	837835.753	835609.965
AREAVERT P3A_3Ad_1	837819.878	835609.965	837778.206	835621.871	837760.346	835621.210	837757.039	835643.038	837788.223	835655.895
AREAVERT P3A_3Ad_1	837823.846	835662.220	837868.190	835660.517	837891.193	835656.826				
SRCPARAM P3A_3Ad_2	1.00	0.000	6							
AREAVERT P3A_3Ad_2	837998.579	835640.923	837989.211	835575.059	837919.097	835588.288	837884.993	835596.341	837891.193	835656.977
AREAVERT P3A_3Ad_2	837998.579	835640.923								
SRCPARAM P3A_3Ad_3	1.00	0.000	7							
AREAVERT P3A_3Ad_3	838070.356	835636.134	838071.819	835568.882	838036.175	835568.444	837989.211	835575.059	837998.579	835640.923
AREAVERT P3A_3Ad_3	838053.373	835634.590	838070.356	835636.134						
SRCPARAM P3A_3Ad_4	1.00	0.000	12							
AREAVERT P3A_3Ad_4	838071.819	835568.882	838070.356	835636.134	838137.378	835633.929	838161.577	835617.937	838159.195	835608.809
AREAVERT P3A_3Ad_4	838148.661	835595.072	838136.490	835589.252	838122.203	835572.318	838124.521	835562.766	838110.314	835563.373
AREAVERT P3A_3Ad_4	838096.707	835568.729	838071.819	835568.882						
SRCPARAM P3A_3Ae_1	1.00	0.000	11							
AREAVERT P3A_3Ae_1	837757.039	835643.189	837760.346	835621.361	837754.144	835592.981	837733.888	835592.257	837721.982	835598.210
AREAVERT P3A_3Ae_1	837701.254	835599.105	837699.393	835640.874	837698.864	835675.005	837699.857	835686.271	837713.568	835693.594
AREAVERT P3A_3Ae_1	837757.039	835643.189								
SRCPARAM P3A_3Ae_2	1.00	0.000	7							
AREAVERT P3A_3Ae_2	837807.542	835659.407	837788.223	835655.895	837757.039	835643.189	837713.568	835693.594	837760.346	835719.919
AREAVERT P3A_3Ae_2	837783.612	835727.658	837807.542	835659.407						
SRCPARAM P3A_3Ae_3	1.00	0.000								

SRCPARAM P3B_3Ba_2 1.00 0.000 6
 AREAVERT P3B_3Ba_2 838071.632 834866.428 838074.997 834831.329 838071.028 834821.804 838024.167 834832.514 838037.295 834873.637
 AREAVERT P3B_3Ba_2 838071.632 834866.428

SRCPARAM P3B_3Ba_3 1.00 0.000 7
 AREAVERT P3B_3Ba_3 838071.028 834821.804 838075.526 834795.081 838072.086 834789.789 838075.728 834769.127 838008.321 834793.493
 AREAVERT P3B_3Ba_3 838024.167 834832.514 838071.028 834821.804

SRCPARAM P3B_3Ba_4 1.00 0.000 11
 AREAVERT P3B_3Ba_4 838075.729 834769.127 838072.880 834752.483 838074.203 834734.491 838058.328 834731.581 838058.667 834751.432
 AREAVERT P3B_3Ba_4 838050.188 834747.596 838038.448 834747.089 838021.120 834749.615 837998.003 834760.685 838008.321 834793.494
 AREAVERT P3B_3Ba_4 838075.729 834769.127

SRCPARAM P3B_3Bb_1 1.00 0.000 9
 AREAVERT P3B_3Bb_1 838086.510 835219.033 838048.136 835198.247 838044.777 835216.079 838044.373 835270.380 838052.852 835276.234
 AREAVERT P3B_3Bb_1 838060.119 835275.224 838067.876 835270.302 838082.121 835227.586 838086.510 835219.033

SRCPARAM P3B_3Bb_2 1.00 0.000 11
 AREAVERT P3B_3Bb_2 838139.636 835077.300 838066.372 835065.310 838060.774 835163.422 838043.506 835178.404 838048.136 835198.247
 AREAVERT P3B_3Bb_2 838086.635 835219.031 838097.074 835220.271 838106.345 835193.617 838112.809 835186.671 838117.130 835146.799
 AREAVERT P3B_3Bb_2 838139.636 835077.300

SRCPARAM P3B_3Bb_3 1.00 0.000 10
 AREAVERT P3B_3Bb_3 838174.149 834948.548 838070.100 834930.072 838069.908 834971.308 838066.372 835065.310 838139.636 835077.300
 AREAVERT P3B_3Bb_3 838146.291 835049.422 838145.382 835031.709 838148.973 835007.601 838155.391 834988.886 838174.149 834948.548

SRCPARAM P3B_3Bb_4 1.00 0.000 11
 AREAVERT P3B_3Bb_4 838070.100 834930.072 838174.149 834948.548 838178.938 834916.452 838163.919 834834.394 838143.281 834826.721
 AREAVERT P3B_3Bb_4 838123.464 834833.992 838109.679 834843.390 838105.819 834862.206 838084.257 834871.281 838081.610 834907.450
 AREAVERT P3B_3Bb_4 838070.100 834930.072

SRCPARAM P3B_3Bb_5 1.00 0.000 12
 AREAVERT P3B_3Bb_5 838178.938 834916.452 838251.964 834903.355 838245.977 834844.807 838267.255 834850.839 838219.817 834817.630
 AREAVERT P3B_3Bb_5 838250.034 834779.476 838251.834 834773.474 838234.739 834761.730 838191.860 834801.829 838143.281 834826.721
 AREAVERT P3B_3Bb_5 838163.919 834834.394 838178.938 834916.452

SRCPARAM P3B_3Bc_1 1.00 0.000 7
 AREAVERT P3B_3Bc_1 838065.439 835081.955 838001.432 835085.989 838001.871 835149.020 838009.110 835163.190 838043.506 835178.404
 AREAVERT P3B_3Bc_1 838060.774 835163.422 838065.439 835081.955

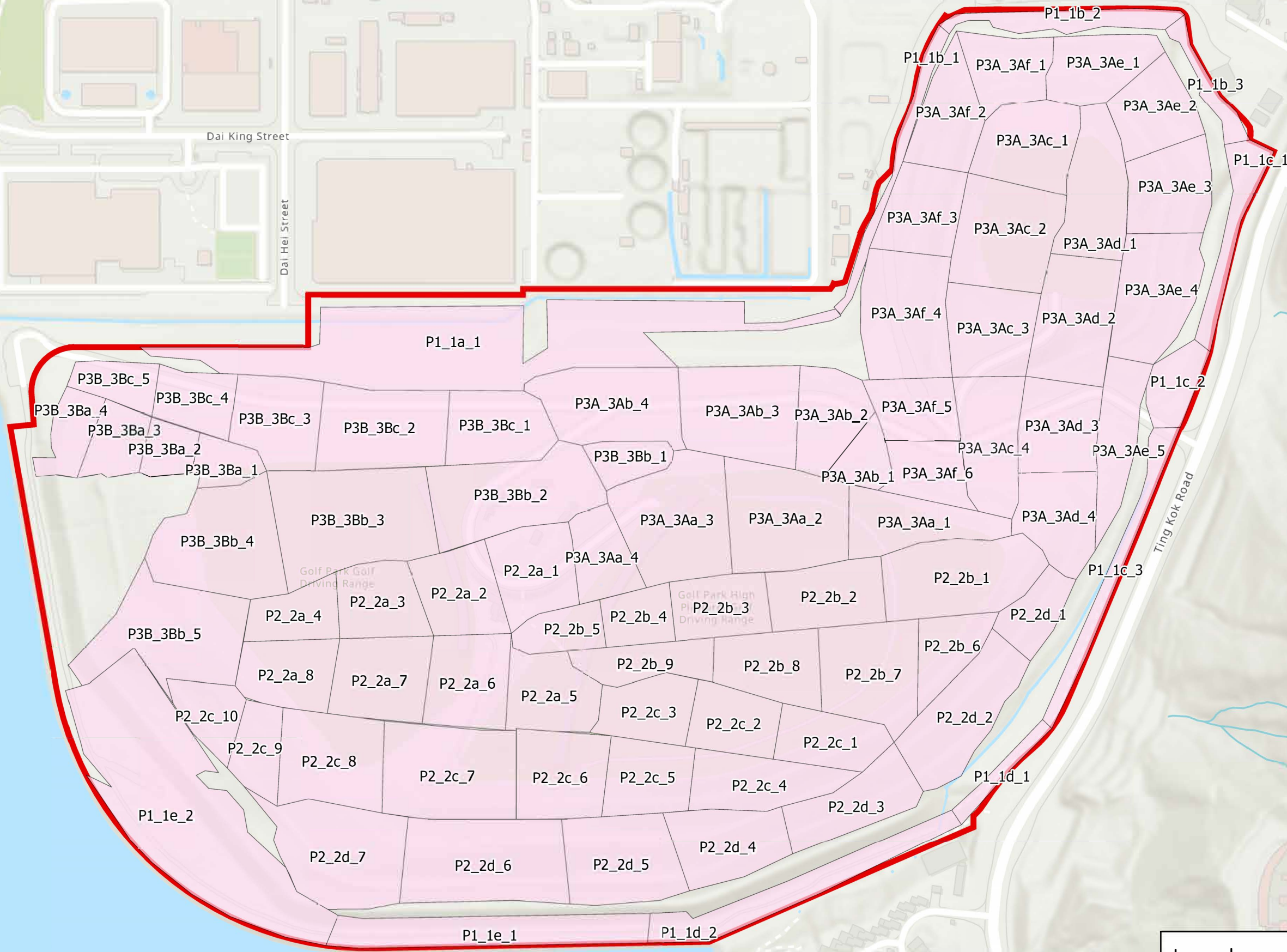
SRCPARAM P3B_3Bc_2 1.00 0.000 6
 AREAVERT P3B_3Bc_2 838069.908 834971.308 837994.156 834979.174 838001.178 835018.424 838001.432 835085.989 838065.439 835081.955
 AREAVERT P3B_3Bc_2 838069.908 834971.308

SRCPARAM P3B_3Bc_3 1.00 0.000 9
 AREAVERT P3B_3Bc_3 838069.908 834971.308 838070.100 834930.072 838052.241 834922.134 838044.642 834897.711 837987.695 834905.734
 AREAVERT P3B_3Bc_3 837990.197 834950.458 837992.019 834965.105 837994.156 834979.174 838069.908 834971.308

SRCPARAM P3B_3Bc_4 1.00 0.000 6
 AREAVERT P3B_3Bc_4 838044.642 834897.711 838023.507 834832.665 837979.017 834839.174 837986.161 834860.605 837987.695 834905.734
 AREAVERT P3B_3Bc_4 838044.642 834897.711

SRCPARAM P3B_3Bc_5 1.00 0.000 8
 AREAVERT P3B_3Bc_5 838023.507 834832.665 838008.321 834793.494 837998.003 834760.685 837977.317 834767.782 837976.307 834785.748
 AREAVERT P3B_3Bc_5 837977.033 834799.883 837979.017 834839.174 838023.507 834832.665

Location of Dust Sources - Heavy Construction



Legend

- Heavy Construction Worksites
- Project Boundary

0 25 50 75 100 200 Meters

Table 3 Location and Detail of Worksites for Stockpile Area (Dust Sources associated with the Project)

Stockpile Area	Source ID	Source Type	Coordinates of		Base Elevation	Release Height	No. of Vertices	TSP Emission Rate (g/s/sq.m)				RSP Emission Rate (g/s/sq.m)				FSP Emission Rate (g/s/sq.m)			
			X	Y	Z			Working Hours	Non-working Hours	Working Hours	Non-working Hours	Working Hours	Non-working Hours	Working Hours	Non-working Hours	Working Hours	Non-working Hours	Working Hours	Non-working Hours
					(m)	(m)													
1	P1_3Ab_1	AREAPOLY	837827	835661.9	39	0	26	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
2	P2_1a_1	AREAPOLY	838128.5	835539.4	43	0	35	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
3	P3_2a2b_1	AREAPOLY	838175.9	834899.7	32	0	15	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019
3	P3_3Bb_2	AREAPOLY	838175.9	834899.7	32	0	20	0.00001723			0.0000027	0.00000815			0.00000127	0.00000124			0.00000019

List of Vertexes (AERMOD input formation)

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SRCPARAM P1_3Ab_1 1.00 0.000 26
AREAVERT P1_3Ab_1 837826.984 835661.937 837841.378 835657.068 837860.639 835653.047 837892.178 835647.332 837907.629 835647.332
AREAVERT P1_3Ab_1 837915.884 835642.675 837916.943 835633.362 837917.789 835608.173 837915.960 835589.029 837915.249 835582.985
AREAVERT P1_3Ab_1 837906.571 835555.468 837893.448 835545.520 837885.404 835544.461 837860.428 835543.403 837845.399 835546.578
AREAVERT P1_3Ab_1 837831.218 835549.753 837819.999 835550.811 837811.744 835553.140 837797.986 835556.950 837792.059 835561.395
AREAVERT P1_3Ab_1 837791.636 835568.591 837793.753 835598.648 837792.063 835618.900 837790.366 835627.647 837792.059 835634.420
AREAVERT P1_3Ab_1 837826.984 835661.937

SRCPARAM P2_1a_1 1.00 0.000 35
AREAVERT P2_1a_1 838128.529 835539.419 838132.835 835548.875 838139.027 835552.949 838146.699 835553.214 838163.368 835546.599
AREAVERT P2_1a_1 838181.360 835532.841 838210.464 835509.028 838234.277 835484.687 838261.264 835453.466 838278.727 835427.536
AREAVERT P2_1a_1 838316.298 835337.313 838321.060 835314.295 838323.177 835294.715 838323.759 835242.381 838326.299 835148.612
AREAVERT P2_1a_1 838327.992 835098.024 838324.817 835096.330 838294.337 835114.322 838270.381 835132.427 838225.206 835167.559
AREAVERT P2_1a_1 838175.474 835207.307 838154.214 835225.024 838130.719 835244.074 838115.267 835255.292 838089.655 835277.094
AREAVERT P2_1a_1 838078.860 835288.312 838072.510 835366.841 838072.298 835386.103 838075.317 835402.745 838082.458 835422.933
AREAVERT P2_1a_1 838092.830 835446.851 838106.800 835476.908 838116.325 835501.250 838123.099 835527.496 838128.529 835539.419

SRCPARAM P3_2a2b_1 1.00 0.000 15
AREAVERT P3_2a2b_1 838175.874 834899.710 838178.938 834916.452 838174.149 834948.548 838158.698 834983.127 838155.391 834988.886
AREAVERT P3_2a2b_1 838147.519 835002.084 838139.357 835048.561 838133.723 835076.381 838132.087 835080.522 838211.456 835092.408
AREAVERT P3_2a2b_1 838242.016 835084.074 838273.766 835053.514 838297.578 835021.367 838296.388 835003.508 838175.874 834899.710

SRCPARAM P3_3Bb_2 1.00 0.000 20
AREAVERT P3_3Bb_2 838175.874 834899.710 838173.356 834897.542 838097.950 834883.254 838091.600 834885.636 838088.425 834895.954
AREAVERT P3_3Bb_2 838079.694 834934.055 838078.900 834970.170 838081.678 835016.605 838080.487 835055.895 838104.697 835067.802
AREAVERT P3_3Bb_2 838129.303 835080.105 838132.087 835080.522 838133.723 835076.381 838139.357 835048.561 838147.519 835002.084
AREAVERT P3_3Bb_2 838155.391 834988.886 838158.698 834983.127 838174.149 834948.548 838178.938 834916.452 838175.874 834899.710
    
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Location of Dust Sources - Stockpile



P3_3Bb_2

Golf Park Golf Driving Range

P3_2a2b_1

Golf Park High Platform Golf Driving Range
P2_1a_1

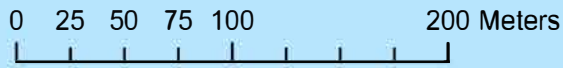
P1_3Ab_1

Ting Kok Road

Fortune Garden

Tycoon Place

Legend
Stockpile Area
Project Boundary



Appendix 2.4

Details of Industrial Chimney Emissions

Annex – 1

Emissions Inventory for Industrial Chimney

Emission Factor for Industrial Chimneys [1]

Company	Source ID	Type	X (m)	Y (m)	Base Elevation (mpd)	Release Height (m)	Exit Temperature (K)	Exit velocity (m/s)	Discharge Diameter (m)	Length of X side (m)	Length of Y side (m)	Angle (°)	Emission Rate (g/s or g/sq.m/s)			Operation Hour
													TSP	RSP	FSP	
K. Wah Materials Limited	CPEP1	POINT	839035	835530	5.1	29	Ambient	24.2	0.16	-	-	-	0.0222	0.0113	0.0033	Assume 0700 - 2300 (16 hours a day)
	CPEP2	POINT	839043	835533	5.1	11	Ambient	24.2	0.16	-	-	-	0.0222	0.0113	0.0033	
	CPEP3	POINT	839030	835540	5.1	31	Ambient	24.2	0.16	-	-	-	0.0222	0.0113	0.0033	
	CPEP4	POINT	839037	835545	5.1	15	Ambient	24.2	0.16	-	-	-	0.0222	0.0113	0.0033	
	CPEP5	POINT	839062	835542	5.1	32	Ambient	24.2	0.16	-	-	-	0.0222	0.0113	0.0033	
	CPEP6	POINT	839057	835555	5.1	32	Ambient	24.2	0.16	-	-	-	0.0222	0.0113	0.0033	
	CPEP7	POINT	839052	835537	5.1	10	Ambient	24.2	0.16	-	-	-	0.0222	0.0113	0.0033	
	CPEP8	POINT	839026	835553	5.1	32	Ambient	24.2	0.16	-	-	-	0.0243	0.0124	0.0036	
	CPEP9	POINT	839017	835534	5.1	32	Ambient	24.2	0.16	-	-	-	0.0243	0.0124	0.0036	
	CPEP10	POINT	839013	835548	5.1	32	Ambient	24.2	0.16	-	-	-	0.0243	0.0124	0.0036	
	CPEP99	POINT	839035	835512	7.1	2	Ambient	24.18	0.16	-	-	-	9.53E-03	4.86E-03	4.96E-03	
CPEP11	AREA	839014	835534	5.6	0.5	-	-	-	59.1	4	-20.3	6.49E-05	3.31E-05	8.02E-06		
K. Wah Concrete Co. Ltd.	SMTEP1	POINT	838998	835552	5.6	34	Ambient	12.0	0.23	-	-	-	0.0049	0.0025	0.0004	Assume 24 hours a day Except SMTEP1, SMTEP3-5, SMTEP7-8, SMTEP12, SMTEP19, SMTEP20, TPEP1, TPEP2 and TPEP10 which operation hour is 0700 - 1900 (12 hours a day)
	SMTEP2	POINT	838993	835555	5.6	20	Ambient	17.5	0.23	-	-	-	0.0071	0.0036	0.0005	
	SMTEP3	POINT	839002	835553	5.6	34	Ambient	12.0	0.23	-	-	-	0.0049	0.0025	0.0004	
	SMTEP4	POINT	839000	835549	5.6	34	Ambient	12.0	0.23	-	-	-	0.0049	0.0025	0.0004	
	SMTEP5	POINT	839001	835545	5.6	34	Ambient	12.0	0.23	-	-	-	0.0049	0.0025	0.0004	
	SMTEP6	POINT	838996	835548	5.6	20	Ambient	17.5	0.23	-	-	-	0.0071	0.0036	0.0005	
	SMTEP7	POINT	839004	835538	5.6	34	Ambient	12.0	0.23	-	-	-	0.0049	0.0025	0.0004	
	SMTEP8	POINT	839003	835542	5.6	34	Ambient	12.0	0.23	-	-	-	0.0049	0.0025	0.0004	
	SMTEP9	POINT	839009	835536	5.6	20	Ambient	17.5	0.23	-	-	-	0.0071	0.0036	0.0005	
	SMTEP12	POINT	839006	835543	5.6	34	Ambient	12.0	0.23	-	-	-	0.0049	0.0025	0.0004	
	SMTEP19	POINT	838997	835555	5.6	28.4	Ambient	12.0	0.23	-	-	-	0.0049	0.0025	0.0004	
	SMTEP20	POINT	839003	835550	5.6	28.4	Ambient	12.0	0.23	-	-	-	0.0049	0.0025	0.0004	
	TPEP1	POINT	839123	835514	5.6	22.8	Ambient	11.7	0.23	-	-	-	0.0047	0.0024	0.0004	
	TPEP2	POINT	839125	835511	5.6	22.8	Ambient	11.7	0.23	-	-	-	0.0047	0.0024	0.0004	
	TPEP10	POINT	839125	835515	5.6	6.65	Ambient	82.3	0.23	-	-	-	0.0333	0.0170	0.0026	
	SMTRH01	POINT	838988	835505	5.6	1	Ambient	0.001	1.5	-	-	-	1.16E-01	5.94E-02	1.85E-02	
	SMTUN01	AREA	839007	835452	5.6	1.2	-	-	-	13	34	-23	2.02E-04	1.03E-04	5.19E-05	
	SMTUN02	POINT	839005	835523	5.6	1	Ambient	0.001	0.5	-	-	-	8.96E-02	4.57E-02	1.41E-02	
	SMTPR4A	AREA	839001	835566	5.4	0.5	-	-	-	68	4	9.8	1.81E-04	9.26E-05	2.24E-05	
	SMTPR4B	AREA	838975	835557	5.6	0.5	-	-	-	28	4	-18.6	1.81E-04	9.26E-05	2.24E-05	
	SMTPR4C	AREA	838985	835510	5.5	0.5	-	-	-	4	49.6	-14.4	1.55E-04	7.93E-05	1.92E-05	
	SMTPR4D	AREA	838988	835509	5.3	0.5	-	-	-	39.3	4	-15	3.12E-05	1.59E-05	3.85E-06	
	SMTPR4E	AREA	839026	835519	5.1	0.5	-	-	-	47.7	4	-21.3	3.12E-05	1.59E-05	3.85E-06	
	SMTPR4F	AREA	839068	835539	5.2	0.5	-	-	-	4	16.8	31.4	3.12E-05	1.59E-05	3.85E-06	
	SMTPR4G	AREA	839014	835534	5.6	0.5	-	-	-	59.1	4	-20.3	1.73E-05	8.84E-06	2.14E-06	
	TPRH01	POINT	839112	835496	5.2	2	Ambient	0.001	0.5	-	-	-	1.85E-02	9.44E-03	2.92E-03	
	TPRH02	POINT	839143	835512	5.2	13	Ambient	0.001	0.5	-	-	-	1.85E-02	9.44E-03	2.92E-03	
	TPOB01	POINT	839129	835518	5.2	17	Ambient	0.001	0.5	-	-	-	1.85E-02	9.44E-03	2.92E-03	
	TPWH01	POINT	839129	835518	5.2	17	Ambient	0.001	0.5	-	-	-	1.85E-02	9.44E-03	2.92E-03	
	TPUN01	POINT	839103	835496	5.2	0.5	Ambient	0.001	0.5	-	-	-	1.85E-02	9.44E-03	2.92E-03	
TPPR10A	AREA	839001	835566	5.4	0.5	-	-	-	68	4	9.8	1.92E-05	9.81E-06	2.37E-06		
TPPR10B	AREA	838975	835557	5.6	0.5	-	-	-	28	4	-18.6	1.92E-05	9.81E-06	2.37E-06		
TPPR10C	AREA	838985	835510	5.5	0.5	-	-	-	4	49.6	-14.4	1.92E-05	9.81E-06	2.37E-06		
TPPR10D	AREA	838988	835509	5.3	0.5	-	-	-	39.3	4	-15	3.90E-05	1.99E-05	4.81E-06		
TPPR10E	AREA	839026	835519	5.1	0.5	-	-	-	47.7	4	-21.3	3.90E-05	1.99E-05	4.81E-06		
TPPR10F	AREA	839068	835539	5.2	0.5	-	-	-	4	16.8	31.4	3.90E-05	1.99E-05	4.81E-06		
TPPR10G	AREA	839067	835554	5.2	0.5	-	-	-	30.1	4	31.2	1.21E-04	6.19E-05	1.50E-05		
TPPR10H	AREA	839105	835513	5.2	0.5	-	-	-	4	29.4	-26.5	1.21E-04	6.19E-05	1.50E-05		
TPPR10I	AREA	839103	835506	5.2	0.5	-	-	-	4	9.2	14.9	6.68E-05	3.41E-05	8.26E-06		
TPPR10J	AREA	839108	835512	5.2	0.5	-	-	-	28.3	4	-26.3	4.55E-05	2.32E-05	5.62E-06		
TPPR10K	AREA	839135	835517	5.2	0.5	-	-	-	4	9.6	-25.8	4.55E-05	2.32E-05	5.62E-06		
TPPR10L	AREA	839014	835534	5.1	0.5	-	-	-	59.1	4	-20.3	8.66E-06	4.42E-06	1.07E-06		
Meyer Aluminium Limited [2]	MEYEP1	POINT	837626	835696	6.3	44.1	633	15.1	1.19	-	-	-	0.1806	0.1083	0.0903	24 hours a day
	MEYEP2	POINT	837628	835694	6.3	44.1	573	15.1	0.68	-	-	-	0.1306	0.0783	0.0653	
	MEYEP3	POINT	837626	835693	6.3	44.1	573	15.2	0.96	-	-	-	0.2611	0.1567	0.1306	
	MEYEP4	POINT	837639	835627	6.3	39.4	573	15.1	0.37	-	-	-	0.0389	0.0233	0.0194	
	MEYEP5	POINT	837613	835694	6.3	15.5	313	15.1	0.88	-	-	-	0.4000	0.2400	0.2000	
	MEYEP7	POINT	837624	835679	6.3	21.9	333	15.7	0.30	-	-	-	0.0456	0.0273	0.0228	
	MEYEP8	POINT	837626	835679	6.3	21.9	333	14.7	0.58	-	-	-	0.1639	0.0983	0.0819	
	MEYEP9A	POINT	837626	835677	6.3	44.1	589	20.4	0.9	-	-	-	0.0444	0.0267	0.0222	
	MEYEP9B	POINT	837625	835676	6.3	23.9	873	15.8	0.32	-	-	-	-	-	-	

Company	Source ID	Type	X (m)	Y (m)	Base Elevation (mpd)	Release Height (m)	Exit Temperature (K)	Exit velocity (m/s)	Discharge Diameter (m)	Length of X side (m)	Length of Y side (m)	Angle (°)	Emission Rate (g/s or g/sq.m/s)			Operation Hour
													TSP	RSP	FSP	
Zama Industries Ltd. [3]	ZAEP1	POINT	837763	835018	5.4	13.5	343	15.10	0.63	-	-	-	0.0472	0.0283	0.0236	0800 - 1800 (10 hours a day)
Techno Enterprise Ltd.	TECH01	POINT	836644	835260	5.6	10.0	373	6.00	0.50	-	-	-	0.0389	0.0233	0.0194	Assume 0800 - 1800 (10 hours a day)
Lee Kum Kee Company Limited	LECH01	POINT	836611	835477	5.1	30.0	373	6.00	0.50	-	-	-	0.0389	0.0233	0.0194	
Hitachi Chemical Electronic Materials (Hong Kong) Limited	HICH01	POINT	836842	835379	5.7	20.0	373	6.00	0.80	-	-	-	0.0389	0.0233	0.0194	
	HICH02	POINT	836842	835382	5.7	20.0	373	6.00	0.20	-	-	-	0.0389	0.0233	0.0194	
GMP Centre	GMCH01	POINT	837020	835656	5.0	20.0	373	6.00	0.30	-	-	-	0.0389	0.0233	0.0194	
Bridgestone Aircraftire Co. (Asia) Ltd.	BRCH01	POINT	836953	835385	5.8	15.0	373	6.00	0.30	-	-	-	0.0389	0.0233	0.0194	
	BRCH02	POINT	836952	835362	5.8	15.0	373	6.00	0.30	-	-	-	0.0389	0.0233	0.0194	
	BRCH03	POINT	837023	835374	5.8	15.0	373	6.00	0.30	-	-	-	0.0389	0.0233	0.0194	
Nissin Foods Co. Ltd.	NICH01	POINT	836969	835324	5.7	20.0	373	6.00	0.80	-	-	-	0.0389	0.0233	0.0194	
	NICH02	POINT	836998	835220	5.7	20.0	373	6.00	0.80	-	-	-	0.0389	0.0233	0.0194	
	NICH03	POINT	836969	835335	5.7	15.0	373	6.00	0.80	-	-	-	0.0389	0.0233	0.0194	
Hong Kong Yamazaki Baking Co. Ltd.	YACH01	POINT	836956	835241	5.7	15.0	373	6.00	0.30	-	-	-	0.0389	0.0233	0.0194	
Convenience Foods International Ltd.	COCH01	POINT	837157	835730	6.0	25.0	373	6.00	0.80	-	-	-	0.0389	0.0233	0.0194	
	COCH02	POINT	837142	835690	6.0	35.0	373	6.00	0.10	-	-	-	0.0389	0.0233	0.0194	
Meadville Technologies Group Ltd.	MECH01	POINT	837257	835650	6.0	24.0	373	6.00	0.10	-	-	-	0.0389	0.0233	0.0194	
	MECH02	POINT	837258	835645	6.0	24.0	373	6.00	0.10	-	-	-	0.0389	0.0233	0.0194	
	MECH03	POINT	837246	835649	6.0	24.0	373	6.00	0.10	-	-	-	0.0389	0.0233	0.0194	
	MECH04	POINT	837239	835649	6.0	24.0	373	6.00	0.10	-	-	-	0.0389	0.0233	0.0194	
	MECH05	POINT	837227	835649	6.0	24.0	373	6.00	0.10	-	-	-	0.0389	0.0233	0.0194	
Amoy Food Limited	AMCH01	POINT	837186	835616	6.0	30.0	373	6.00	0.50	-	-	-	0.0389	0.0233	0.0194	
Café de Coral Central Processing Plant 2	CACH01	POINT	837137	835493	6.0	25.0	373	6.00	0.50	-	-	-	0.0389	0.0233	0.0194	
Winner Food Products Ltd.	WICH01	POINT	837202	835416	5.9	35.0	373	6.00	0.50	-	-	-	0.0389	0.0233	0.0194	
	WICH02	POINT	837391	835020	5.8	30.0	373	6.00	0.50	-	-	-	0.0389	0.0233	0.0194	
	WICH03	POINT	837408	834963	5.8	25.0	373	6.00	0.30	-	-	-	0.0389	0.0233	0.0194	
	WICH04	POINT	837391	834995	5.8	25.0	373	6.00	0.30	-	-	-	0.0389	0.0233	0.0194	
	WICH05	POINT	837391	834997	5.8	25.0	373	6.00	0.30	-	-	-	0.0389	0.0233	0.0194	
	WICH06	POINT	837391	835022	5.8	42.0	373	6.00	0.30	-	-	-	0.0389	0.0233	0.0194	
Jean-Marie Pharmacial Company Limited	JMCH01	POINT	837355	835563	6.0	25.0	373	6.00	0.50	-	-	-	0.0389	0.0233	0.0194	
Hong Kong Yakult Co. Ltd.	KUCH01	POINT	837532	835472	5.7	20.0	373	6.00	0.30	-	-	-	0.0389	0.0233	0.0194	
Watson's Water Centre	WACH01	POINT	837615	835475	5.7	25.0	373	6.00	0.80	-	-	-	0.0389	0.0233	0.0194	
Tung Fong Hung Property Investment Limited	TFCH01	POINT	837531	835012	5.4	25.0	373	6.00	0.30	-	-	-	0.0389	0.0233	0.0194	
Apex Print Limited	APCH01	POINT	837508	834893	5.3	25.0	373	6.00	0.20	-	-	-	0.0389	0.0233	0.0194	
	APCH02	POINT	837518	834893	5.3	25.0	373	6.00	0.20	-	-	-	0.0389	0.0233	0.0194	
	APCH03	POINT	837518	834893	5.4	25.0	373	6.00	0.20	-	-	-	0.0389	0.0233	0.0194	
	APCH04	POINT	837518	834878	5.4	25.0	373	6.00	0.20	-	-	-	0.0389	0.0233	0.0194	
	APCH05	POINT	837518	834867	5.5	25.0	373	6.00	0.20	-	-	-	0.0389	0.0233	0.0194	
	APCH06	POINT	837518	834867	5.5	25.0	373	6.00	0.20	-	-	-	0.0389	0.0233	0.0194	
Lei Garden	LICH01	POINT	837332	835652	6.0	20.0	373	6.00	0.30	-	-	-	0.0389	0.0233	0.0194	
Mass Lam Int'l Ltd.	MACH01	POINT	836833	835484	5.9	10.0	373	6.00	0.20	-	-	-	0.0389	0.0233	0.0194	
APT Satellite Co. Ltd. [4]	SACH01	POINT	837402	834909	5.4	10.0	373	6.00	0.30	-	-	-	0.0389	0.0233	0.0194	
	SACH02	POINT	837406	834922	5.4	10.0	373	6.00	0.30	-	-	-	0.0389	0.0233	0.0194	
FC Packaging (HK) Limited	FCCH01	POINT	837379	835648	6.0	33.6	448	6.00	0.70	-	-	-	0.0389	0.0233	0.0194	Operates 24 hours a day as advised by the Operator
	FCCH02	POINT	837385	835648	6.0	33.6	448	6.00	0.70	-	-	-	0.0389	0.0233	0.0194	
	FCCH03	POINT	837392	835648	6.0	35.5	723	6.00	0.60	-	-	-	0.0389	0.0233	0.0194	
	FCCH04	POINT	837375	835690	6.0	35.5	723	6.00	0.60	-	-	-	0.0389	0.0233	0.0194	
	FCCH05	POINT	837381	835684	6.0	35.4	723	6.00	0.50	-	-	-	0.0389	0.0233	0.0194	
	FCCH06	POINT	837390	835684	6.0	35.5	723	6.00	0.60	-	-	-	0.0389	0.0233	0.0194	
	FCCH07	POINT	837398	835648	6.0	35.5	448	6.00	0.60	-	-	-	0.0389	0.0233	0.0194	
	FCCH08	POINT	837394	835694	6.0	35.5	448	6.00	0.50	-	-	-	0.0389	0.0233	0.0194	
	FCCH09	POINT	837405	835648	6.0	35.4	448	6.00	0.50	-	-	-	0.0389	0.0233	0.0194	
	FCCH10	POINT	837412	835648	6.0	35.4	448	6.00	0.50	-	-	-	0.0389	0.0233	0.0194	
Transtech Photonics	TRCH01	POINT	837584	835689	6.0	25.0	373	6.00	0.80	-	-	-	0.0389	0.0233	0.0194	Assume 0800 - 1800 (10 hours a day)
Taclon Industries Limited	TACH01	POINT	837757	835136	5.5	12.0	373	6.00	0.50	-	-	-	0.0389	0.0233	0.0194	
Existing Tai Po Sewage Treatment Works	TP01	POINT	837714	835225	6	10	749	18.59	0.35	-	-	-	6.520E-03	6.520E-03	6.520E-03	Assume 24 hours a day
	TP02	POINT	837686	835203	6	10	749	18.59	0.35	-	-	-	6.520E-03	6.520E-03	6.520E-03	
	TP03	POINT	837547	835113	6	10	749	18.59	0.35	-	-	-	6.520E-03	6.520E-03	6.520E-03	

Note:

[1] Reference have been made to the approved EIA Study of Upgrading of Tai Po Sewage Treatment Works (AEIAR-244/2022), except K. Wah Materials Limited and K. Wah Concrete Co. Ltd. which made reference to of Shuen Wan Golf Course (AEIAR-221/2019). The most updated Specified Processes (SP) licenses from the Centralised Environmental Database (CED) provided by Environmental Protection Department (EPD) have been checked.

[2] The latest SP license of Meyer Aluminium Limited has been renewed and issued on 29 March 2024. The emission rates adopted for assessment are higher than those in the renewed SP license for conservative assessment.

[3] Emissions from Zama Industries Ltd. are referred to the approved EIA report of Shuen Wan Golf Course (AEIAR-221/2019). They have been included in the assessment for conservative assessment.

[4] According to the approved EIA Study of Upgrading of Tai Po Sewage Treatment Works (AEIAR-244/2022), the chimneys for APT Satellite Co. Ltd. are used under emergency situation only. No continuous emission from the stack is anticipated, therefore they were not included this assessment.

Particle Size Distribution of Process for Concrete Batching Process and Paved Roads for K. Wah Materials Limited and K. Wah Concrete Co. Ltd.**1. General Concrete Batching Process** ^[1,2]

Particles Size Range (µm)	Average Particles Size (µm)	Particle Size Distribution (%) ^[3]		
		TSP	RSP	FSP
≤ 1.0	0.50	4%	8%	27%
1.0 - 2.0	1.50	7%	14%	47%
2.0 - 2.5	2.25	4%	8%	27%
2.5 - 3.0	2.75	3%	6%	-
3.0 - 4.0	3.50	7%	14%	-
4.0 - 5.0	4.50	5%	10%	-
5.0 - 6.0	5.50	4%	8%	-
6.0 - 10	8.00	17%	33%	-
>10	20.00	49%	-	-

Note:

[1] Reference from Category 3 "Mechanically Generated Aggregate, Unprocessed Ores", Page B.2 -13, Appendix B.2 Generalized Particle Size Distributions, AP-42, USEPA and Shuen Wan Golf Course (AEIAR-221/2019)

[2] This particle size distribution is adopted to SMTRH01, SMTUN01, SMTUN02, TPRH01, TPRH02, TPOB01, TPWH01 & TPUN01

[3] Percentages presented in table may not sum up to 100% due to rounding.

2. Fugitive Emission from Paved Roads ^[4,5]

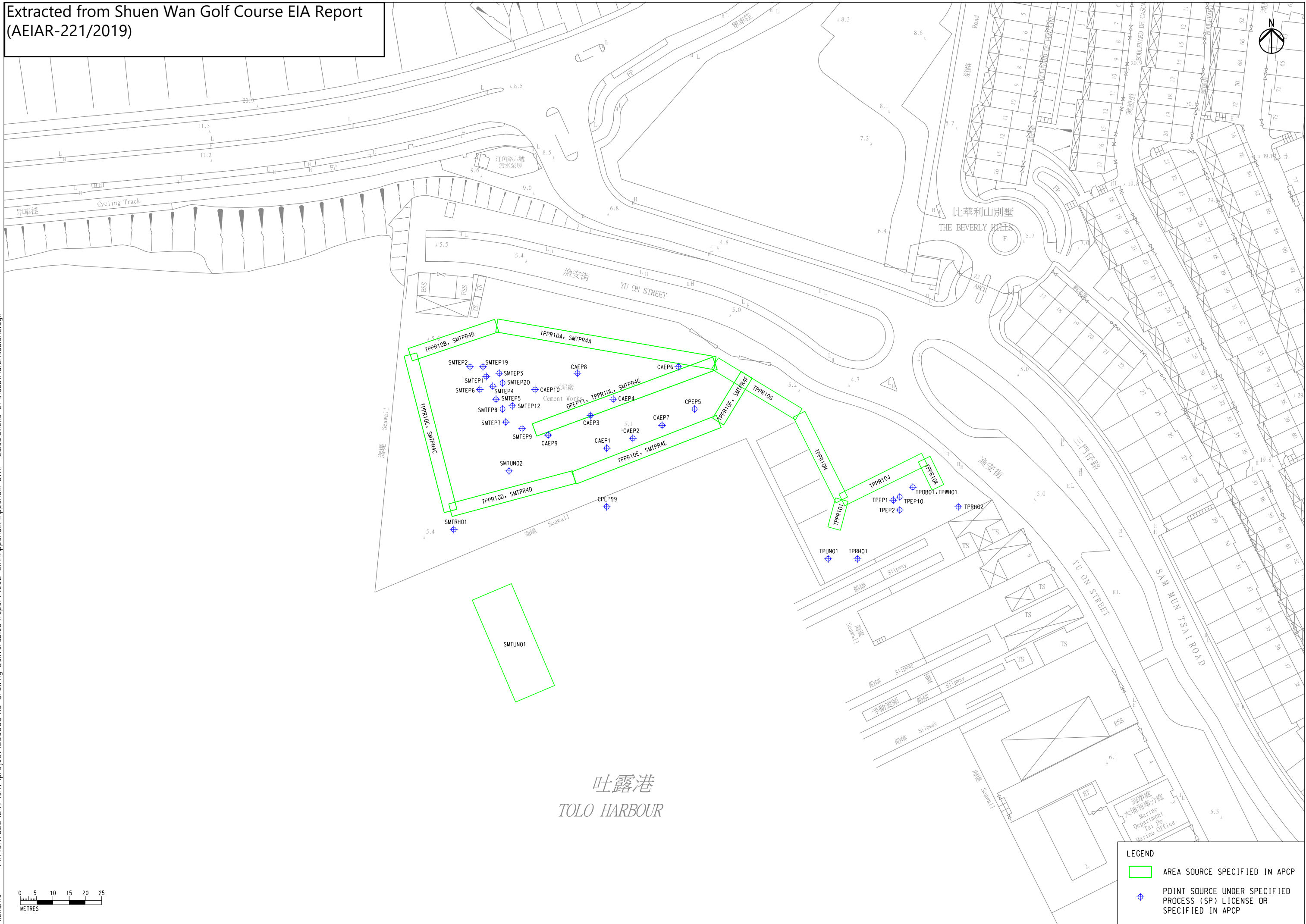
Particles Size Range (µm)	Average Particles Size (µm)	Particle Size Distribution (%) ^[6]		
		TSP	RSP	FSP
≤ 2.5	1.25	5%	24%	100%
2.5 - 10.0	6.25	15%	76%	-
10.0 - 15.0	12.50	5%	-	-
> 15.0	22.50	76%	-	-

Note:

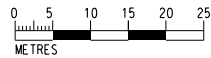
[4] Reference from Table 13.2.1-1, Section 13.2.1.3 , AP-42 Fifth Version, USEPA

[5] This particle size distribution is adopted to CPEP11, SMTPR4A - SMTPR4G & TPRR10A - TPRR10L

[6] Percentages presented in table may not sum up to 100% due to rounding.



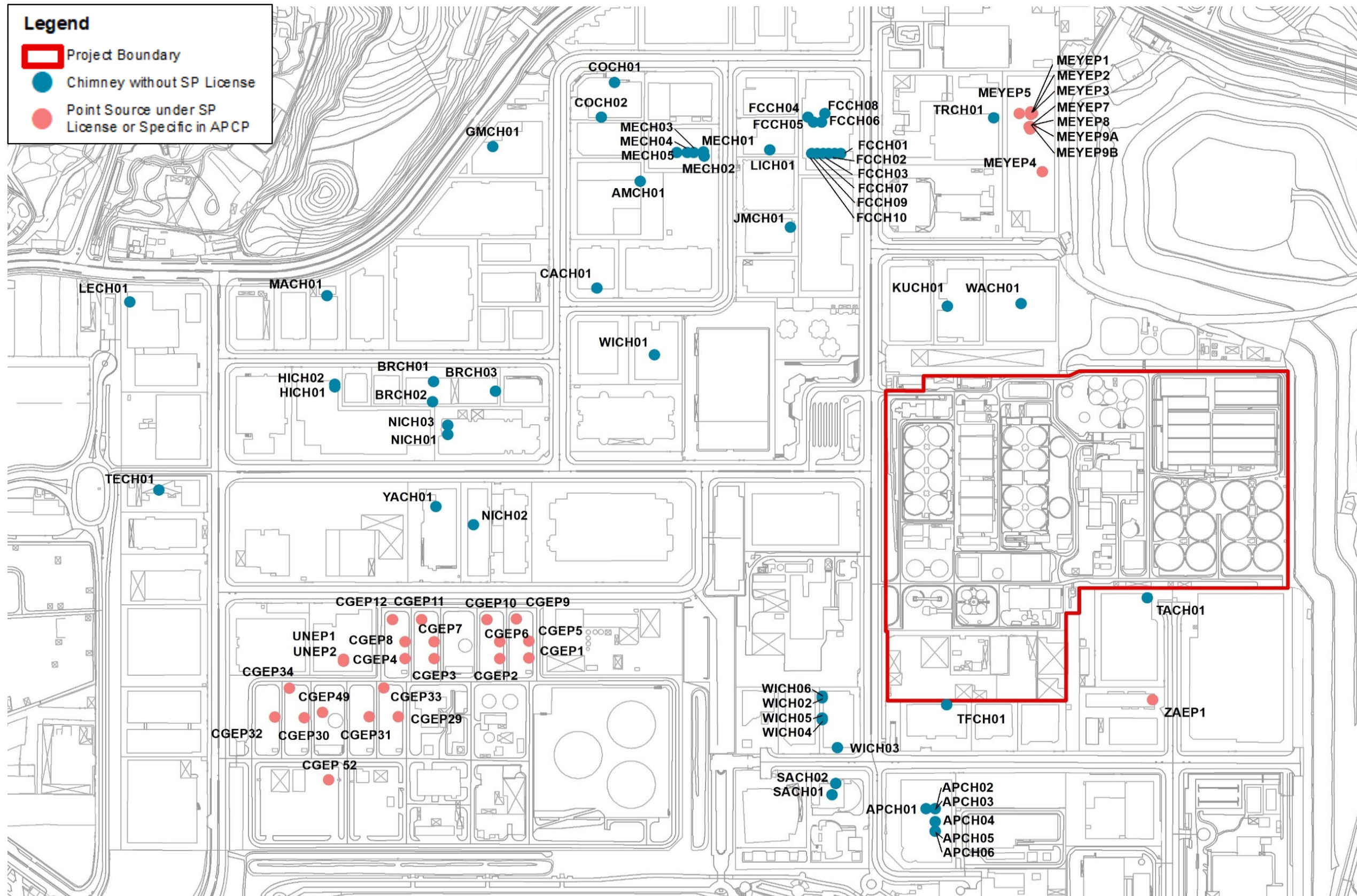
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LEGEND

- AREA SOURCE SPECIFIED IN APCP
- ◆ POINT SOURCE UNDER SPECIFIED PROCESS (SP) LICENSE OR SPECIFIED IN APCP

Location of Emission Points



Extracted from Upgrading of Tai Po Sewage Treatment Works
(AEIAR-244/2022)

Existing CHP system (modelled in Construction Phase)

Description	Source ID	Type	X	Y	Base Elevation (mPD)	Release Height (mAG)	Exit Temperature (K)	Internal Diameter (m)	flue gas flow (dry at s.t.p.) (Nm ³ /hr)	actual flow wet (m ³ /h)	exit velocity (m/s)	Emission Rate (g/s)		
			(m)	(m)								TSP	RSP	FSP
Existing Tai Po Sewage Treatment Works ^[1]	TP01	POINT	837714	835225	6	10	749	0.35	2347	6439	18.59	6.520E-03	6.520E-03	6.520E-03
	TP02	POINT	837686	835203	6	10	749	0.35	2347	6439	18.59	6.520E-03	6.520E-03	6.520E-03
	TP03	POINT	837547	835113	6	10	749	0.35	2347	6439	18.59	6.520E-03	6.520E-03	6.520E-03

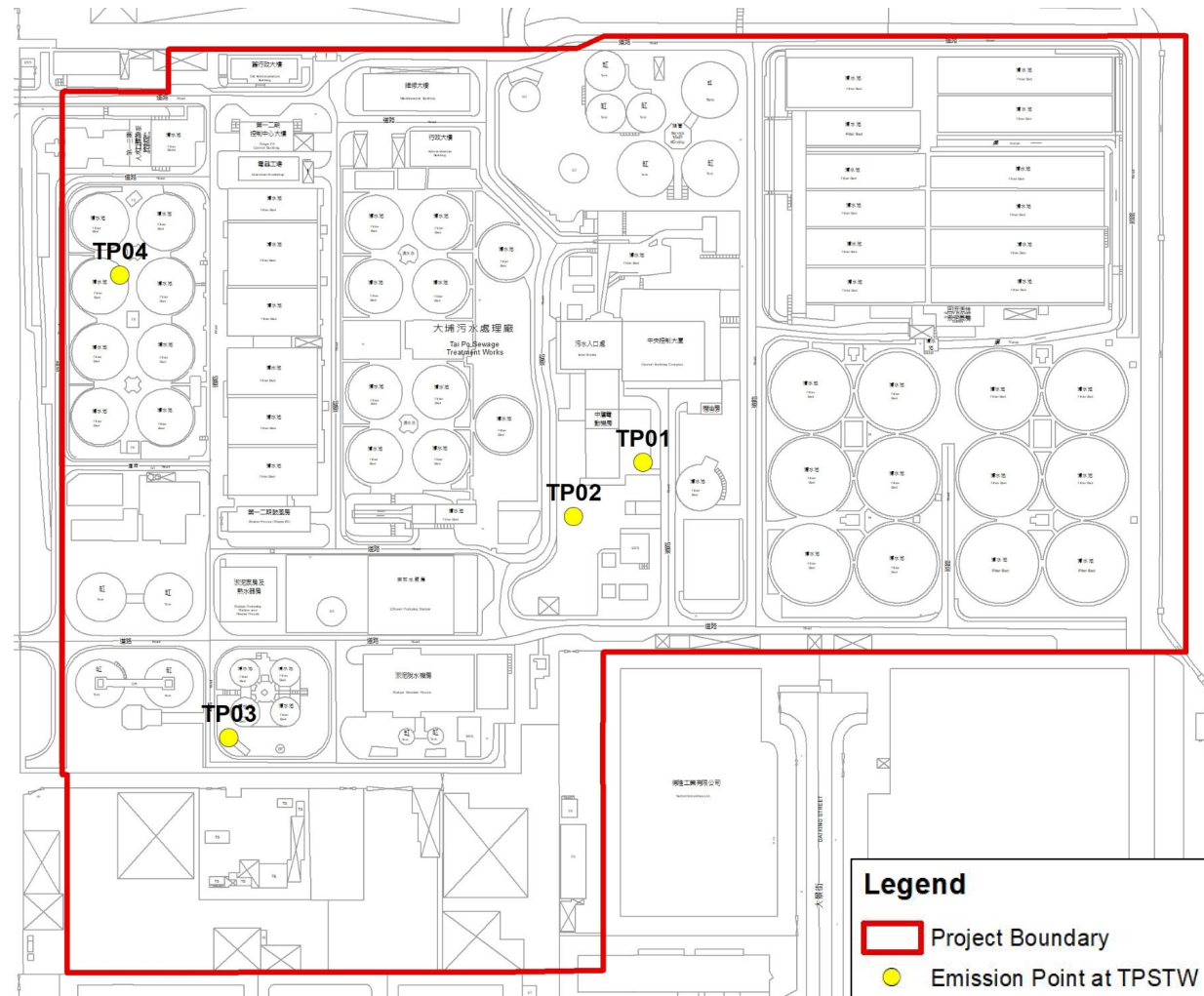
Proposed CHP system (modelled in Operational Phase)

Description	Source ID	Type	X	Y	Base Elevation (mPD)	Release Height (mAG)	Exit Temperature (K)	Internal Diameter (m)	flue gas flow (dry at s.t.p.) (m ³ /h)	actual flow wet (m ³ /h)	exit velocity (m/s)	Emission Rate (g/s)								
			(m)	(m)								NO _x	SO ₂	RSP	FSP	CO	Methane	HCL	HF	CH ₂ O
Proposed Tai Po Sewage Treatment Works ^[1]	TP04	POINT	837503	835301	6	15	453	1.3	27749	46046	9.64	1.927E+00	9.250E-02	7.708E-02	7.708E-02	5.010E+00	1.156E+00	7.71E-02	7.71E-03	1.08E-01

Emission Concentration (mg/m ³)	NO _x	SO ₂	TSP	RSP	FSP	CO	Methane	HCL	HF	CH ₂ O
	250	12	10	10	10	650	150	10	1	14

- Note:
- [1] Information provided by Design Engineer: four 2MW power generators (3 duty, 1 stand-by) and two 600kW power generators (2 duty, 1 stand-by). All the exhaust gas would be diverted to a single exhaust.
 - [2] Expressed as at dry, 0 degree Celsius and 101.325kPa and 5% oxygen condition
 - [3] All plants are assumed to be operating 24 hours continuously.

Location of Emission Points at TPSTW



Legend

- Project Boundary
- Emission Point at TPSTW

Annex – 2

Marine Emission for Concrete Batching Plant

Emission Inventory (Marine Emission)

Source	Source ID	Type	X (m)	Y (m)	Base Elevation (mpd)	Release Height [1] (m)	Exit Temperature [1] (K)	Exit velocity [1] (m/s)	Internal diameter [1] (m)	Emission Rate per Trip [2]					
										Departure			Arrival		
										NOx (g/s)	RSP (g/s)	FSP (g/s)	NOx (g/s)	RSP (g/s)	FSP (g/s)
Barge - Hotelling [2]	B01	POINT	838998	835474	0	11	588	8	0.2	1.39E-01	5.54E-03	5.40E-03	1.39E-01	5.54E-03	5.40E-03
Barge - Maneuvering [2]	CC01	POINT	838670	834404	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC02	POINT	838675	834423	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC03	POINT	838682	834442	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC04	POINT	838689	834461	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC05	POINT	838695	834480	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC06	POINT	838701	834499	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC07	POINT	838708	834518	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC08	POINT	838708	834538	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC09	POINT	838707	834558	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC10	POINT	838706	834578	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC11	POINT	838706	834598	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC12	POINT	838704	834618	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC13	POINT	838703	834638	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC14	POINT	838701	834658	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC15	POINT	838700	834678	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC16	POINT	838698	834698	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC17	POINT	838697	834717	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC18	POINT	838697	834737	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC19	POINT	838696	834757	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC20	POINT	838696	834777	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC21	POINT	838696	834797	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC22	POINT	838696	834817	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC23	POINT	838697	834837	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC24	POINT	838697	834857	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC25	POINT	838697	834877	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC26	POINT	838698	834897	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC27	POINT	838699	834917	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC28	POINT	838699	834937	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC29	POINT	838699	834957	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC30	POINT	838699	834977	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC31	POINT	838699	834997	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC32	POINT	838700	835017	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC33	POINT	838701	835037	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC34	POINT	838701	835057	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC35	POINT	838703	835077	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC36	POINT	838704	835097	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC37	POINT	838706	835117	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC38	POINT	838708	835137	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC39	POINT	838709	835157	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC40	POINT	838711	835177	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC41	POINT	838713	835197	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC42	POINT	838715	835217	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC43	POINT	838716	835237	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC44	POINT	838720	835256	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC45	POINT	838733	835271	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC46	POINT	838748	835285	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC47	POINT	838762	835298	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC48	POINT	838777	835312	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC49	POINT	838791	835326	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC50	POINT	838806	835340	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC51	POINT	838820	835354	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC52	POINT	838834	835368	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC53	POINT	838849	835381	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC54	POINT	838864	835395	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC55	POINT	838879	835408	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC56	POINT	838893	835422	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC57	POINT	838908	835435	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC58	POINT	838922	835449	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC59	POINT	838941	835455	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
	CC60	POINT	838960	835461	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05
CC61	POINT	838979	835467	0	11	588	8	0.2	1.76E-03	5.60E-05	5.42E-05	1.76E-03	5.60E-05	5.42E-05	

Notes:
 [1] No information from the operator is available. Barge information including release height, exit temperature, exit velocity and internal diameter of its chimney is referenced to another similar type of Barge presented in Appendix 5.3.15-6 of approved EIA study "Expansion of Hong Kong International Airport into a Three-Runway System (AEIAR-185/2014)" due to the similar nature and operating mode.
 [2] Calculation of emission factor of Barge - Refer to "Emission factor for Barges of Concrete Batching Plants"

Calculations of TIM for Barges to / from the concrete batching plants

Premise	Vessel Type	Length of Sailing Route [1]	Design Speed	Design Speed	Speed under various Mode (knots)		Speed under various Mode (m/s)		Time-In-Mode (minutes)	
		(m)	(knots)	(m/s)	Hotelling	Maneuvering	Hotelling	Maneuvering [2]	Hotelling [3]	Maneuvering [4]
K. Wah Concrete Co. Ltd. & K. Wah Materials Ltd.	Barge	1200	NA	NA	0	4.50	0.00	2.31	60	8.64

Notes:

[1] Length of sailing route within 500m assessment area.

[2] No information is available from the operator. For the sailing pattern within 500m assessment area, the barge would be either approaching or departing from the anchor point (i.e. at the cement depot), hence they are assumed to be travelling under Maneuvering Mode for assessment purpose. With reference to EPD's study on marine vessel (2012), the speed in Maneuvering mode ranges from 1 to 8 knots (i.e. 0.51 and 4.12 m/s). The average speed in Maneuvering Mode is 4.5 knots (i.e. 2.31 m/s) is adopted in this assessment, assuming the travelling speed of the barges is the same during their journey.

[3] Time-In-Mode (TIM) for Hotelling - Based on site observation, the barge would travel to the concrete batching plants at least once per two days and stay at the anchoring point for at least 2 to 5 hours. Given the long duration of stay and infrequent sailing schedule of the barges, it is assumed there would be one barge hotelling continuously during the working hours as a conservative assessment.

[4] TIM for Maneuvering is estimated based on the averaged speed and the length of sailing route within 500m assessment area.

Emission factor for Barges of Concrete Batching Plants**Marine Emission**

Emission Rate = Engine Power x Loading Factor x Emission Factor x Time-in-mode

Given

Premise	Vessel Type	Engine Type	Average Engine Power [1]	Loading Factor [3]		Time-In-Mode (minutes) [4]		Emission Factor (g/kWh)		
			(kW)	Hotelling	Maneuvering	Hotelling	Maneuvering	NOx [2]	RSP [2]	FSP [2]
K. Wah Concrete Co. Ltd. & K. Wah Materials Ltd.	Barge	Main Engine	727	0.00	0.30	60	8.64	10.00	0.30	0.29
		Auxiliary Engine	116	0.43	0.43	60	8.64	10.00	0.40	0.39

Note:

- [1] Engine Power for Main Engine and Auxiliary Engine - No information from operator is available. Referenced to Table 4-5 and 4-6 of the Study on Marine Vessels Emissions Inventory, February 2012, Main Engine Power and Auxiliary Engine of Barge at GRT Class >=1000 for conservative purpose.
- [2] Emission Factor for Main Engine and Auxiliary Engine - No information from operator is available. Reference to EPD's Table 4-16 of the Study on Marine Vessels Emissions Inventory, February 2012, engine type of ME(Cat.1) for main engine and AE for Auxiliary Engine.
- [3] Loading Factor for Main Engine and Auxiliary Engine - No information from operator is available. Reference to EPD's Tables 4-7 and 4-10 of the Study on Marine Vessels Emissions Inventory, February 2012, vessel type of All except tug and All RTVs respectively for conservative purpose.
- [4] Time-In-Mode (TIM) Estimation - Refer to Calculations of TIM for Barges to / from the concrete batching plants

Detailed Emission Rate

Premise	Vessel Type	Engine Type	Emission Rate (kg/hour)					
			Hotelling			Maneuvering		
			NOx	RSP	FSP	NOx	RSP	FSP
K. Wah Concrete Co. Ltd. & K. Wah Materials Ltd.	Barge	Main Engine	0.00E+00	0.00E+00	0.00E+00	3.14E-01	9.42E-03	9.11E-03
		Auxiliary Engine	4.99E-01	2.00E-02	1.95E-02	7.18E-02	2.87E-03	2.80E-03

Notes:

- [1] It is assumed that there would be one barge hotelling at each concrete batching plant during the working hours. See "Barges Schedule".
- [2] Emission = Engine Power (kW) x Loading Factor x Time-in-mode (hr) x Emission Factor (g/kWh)
 e.g. RSP emission factor of auxiliary engine under hotelling mode (kg/hour) = Engine Power (kW) x Loading Factor x Emission Factor (g/kWh) x Time-in-mode (hr) / 1000
 = (116 x 0.43 x 0.40 x 1 / 1000)
 = 0.02 kg/hour

Barges Schedule

Hour		Number of Activity Adopted in this Assessment	
		K. Wah Concrete Co. Ltd. & K. Wah Materials Ltd.	
Start	End	Hotelling [1]	Maneuvering [2]
0	1	0	0
1	2	0	0
2	3	0	0
3	4	0	0
4	5	0	0
5	6	0	0
6	7	0	0
7	8	1	1
8	9	1	1
9	10	1	1
10	11	1	1
11	12	1	1
12	13	1	1
13	14	1	1
14	15	1	1
15	16	1	1
16	17	1	1
17	18	1	1
18	19	1	1
19	20	1	1
20	21	1	1
21	22	1	1
22	23	1	1
23	24	0	0

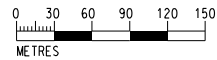
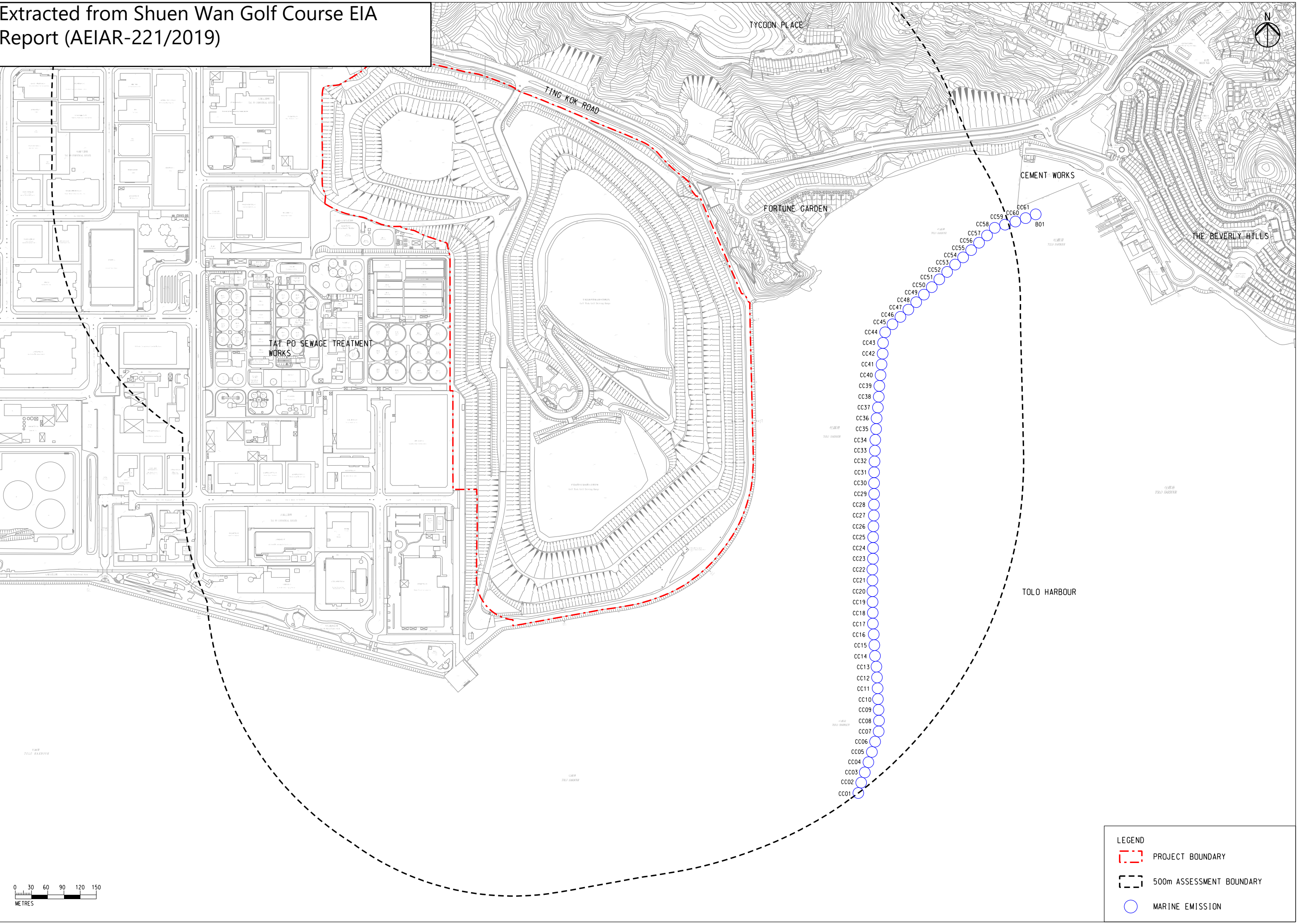
Note:

[1] Based on site observation, the barge would travel to the concrete batching plants at least once per two days and stay at the anchoring point for at least 2 to 5 hours. Given the long duration of stay and infrequent sailing schedule of the barges, it is assumed there would be one barge hotelling continuously during the working hours as a conservative assessment.

[2] As the arrival and departure time of the barges are not available from the operator, it is assumed there would be one barge arriving / departing at each cement depot cum concrete batching

Extracted from Shuen Wan Golf Course EIA
Report (AEIAR-221/2019)

Printed by : 4/16/2018
Filename : \\HKGNTS22\env\project\256383\13 Drawing Deliverables\report\002 EIA\Appendix 3.12 - Calculations of Marine Emissions.dgn



LEGEND

- PROJECT BOUNDARY
- 500m ASSESSMENT BOUNDARY
- MARINE EMISSION

Appendix 2.5

Road Network, Traffic Forecast and Vehicular Emissions

Annex – 1

Traffic Forecast and Road Extensions

Table 1 - Traffic Forecast

Road ID	Road Type	Speed Limit (km/hr)	Average Speed (km/hr)	Start Emission Estimated by Broad Brush Approach (Y/N)	Hour	Total Vehicles (Veh/hr)	01 - Private Cars	02 - Taxi	03 - Light Goods Vehicles <=2.5t	04 - Light Goods Vehicles 2.5-3.5t	05 - Light Goods Vehicles >3.5t	06 - Medium Goods Vehicles <=15t	07 - Medium Goods Vehicles 15-24t	08 - Public Light Buses	09 - Private Light Bus <=3.5t	10 - Private Light Bus >3.5t	11 - Non-franchised Bus <=6.4t	12 - Non-franchised Bus 6.4-15t	13 - Non-franchised Bus 15-24t	14 - Franchised Bus Single Deck	15 - Franchised Bus Double Deck	16 - Motorcycles	17 - Heavy Goods Vehicles >24t	18 - Non-franchised Bus >24t	Total
							PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9	
135136	LD	50	24	Y	0000-0100	20	30%	20%	10%	20%	10%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
135136	LD	50	25	Y	0100-0200	15	27%	27%	7%	20%	13%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
135136	LD	50	25	Y	0200-0300	20	45%	10%	10%	10%	15%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
135136	LD	50	23	Y	0300-0400	20	45%	10%	10%	10%	15%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
135136	LD	50	23	Y	0400-0500	30	33%	13%	7%	20%	10%	10%	0%	0%	0%	0%	0%	3%	0%	0%	0%	0%	3%	0%	100%
135136	LD	50	20	Y	0500-0600	80	29%	15%	9%	16%	9%	9%	3%	0%	0%	0%	0%	3%	3%	0%	0%	3%	4%	0%	100%
135136	LD	50	19	Y	0600-0700	200	27%	11%	9%	19%	10%	11%	3%	0%	0%	0%	0%	4%	3%	0%	0%	3%	3%	0%	100%
135136	LD	50	20	Y	0700-0800	305	27%	14%	8%	18%	10%	10%	2%	0%	0%	0%	0%	3%	3%	0%	0%	3%	2%	0%	100%
135136	LD	50	18	Y	0800-0900	360	27%	14%	9%	18%	9%	10%	2%	0%	0%	0%	0%	3%	3%	0%	0%	3%	2%	0%	100%
135136	LD	50	18	Y	0900-1000	235	28%	14%	8%	18%	9%	10%	2%	0%	0%	0%	0%	3%	3%	0%	0%	3%	2%	0%	100%
135136	LD	50	20	Y	1000-1100	165	29%	13%	8%	17%	9%	10%	2%	0%	0%	0%	0%	4%	2%	0%	0%	3%	2%	0%	100%
135136	LD	50	19	Y	1100-1200	180	28%	13%	8%	18%	9%	10%	2%	0%	0%	0%	0%	3%	3%	0%	0%	3%	2%	0%	100%
135136	LD	50	18	Y	1200-1300	200	29%	13%	8%	18%	10%	10%	2%	0%	0%	0%	0%	4%	3%	0%	0%	3%	2%	0%	100%
135136	LD	50	19	Y	1300-1400	220	28%	14%	8%	18%	9%	10%	2%	0%	0%	0%	0%	3%	3%	0%	0%	3%	2%	0%	100%
135136	LD	50	19	Y	1400-1500	250	29%	14%	9%	19%	9%	8%	2%	0%	0%	0%	0%	3%	2%	0%	0%	2%	2%	0%	100%
135136	LD	50	20	Y	1500-1600	220	28%	14%	8%	18%	9%	10%	2%	0%	0%	0%	0%	3%	3%	0%	0%	3%	2%	0%	100%
135136	LD	50	17	Y	1600-1700	240	27%	14%	8%	18%	10%	10%	2%	0%	0%	0%	0%	3%	3%	0%	0%	3%	2%	0%	100%
135136	LD	50	16	Y	1700-1800	185	27%	14%	8%	19%	9%	10%	2%	0%	0%	0%	0%	3%	2%	0%	0%	3%	2%	0%	100%
135136	LD	50	20	Y	1800-1900	140	30%	13%	8%	17%	9%	10%	3%	0%	0%	0%	0%	3%	3%	0%	0%	3%	2%	0%	100%
135136	LD	50	20	Y	1900-2000	70	29%	13%	9%	17%	9%	10%	3%	0%	0%	0%	0%	3%	3%	0%	0%	3%	3%	0%	100%
135136	LD	50	19	Y	2000-2100	70	29%	13%	7%	17%	10%	10%	3%	0%	0%	0%	0%	4%	1%	0%	0%	3%	3%	0%	100%
135136	LD	50	21	Y	2100-2200	65	35%	11%	8%	15%	8%	9%	3%	0%	0%	0%	0%	3%	3%	0%	0%	3%	2%	0%	100%
135136	LD	50	23	Y	2200-2300	40	30%	15%	8%	15%	10%	10%	0%	0%	0%	0%	0%	5%	3%	0%	0%	5%	0%	0%	100%
135136	LD	50	24	Y	2300-0000	20	40%	15%	10%	15%	10%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
149150	LD	50	21	Y	0000-0100	50	30%	24%	4%	4%	0%	10%	0%	6%	0%	0%	0%	0%	8%	0%	12%	2%	0%	0%	100%
149150	LD	50	22	Y	0100-0200	35	40%	26%	3%	6%	0%	6%	0%	0%	0%	0%	0%	0%	11%	0%	9%	0%	0%	0%	100%
149150	LD	50	25	Y	0200-0300	20	50%	25%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	10%	0%	5%	0%	0%	0%	100%
149150	LD	50	24	Y	0300-0400	20	45%	25%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	10%	0%	10%	0%	0%	0%	100%
149150	LD	50	25	Y	0400-0500	20	60%	25%	0%	0%	0%	5%	0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%	100%
149150	LD	50	23	Y	0500-0600	35	40%	23%	3%	0%	0%	11%	0%	0%	0%	0%	0%	11%	0%	11%	0%	0%	0%	0%	100%
149150	LD	50	19	Y	0600-0700	165	21%	36%	2%	8%	0%	7%	1%	1%	1%	1%	0%	0%	10%	0%	8%	2%	0%	0%	100%
149150	LD	50	18	Y	0700-0800	310	28%	28%	1%	1%	0%	12%	1%	3%	1%	1%	0%	1%	13%	0%	8%	1%	1%	0%	100%
149150	LD	50	21	Y	0800-0900	190	17%	31%	6%	6%	0%	19%	1%	5%	0%	0%	0%	1%	3%	2%	6%	2%	1%	0%	100%
149150	LD	50	20	Y	0900-1000	145	14%	36%	8%	5%	0%	18%	1%	5%	0%	0%	0%	1%	1%	0%	9%	1%	0%	0%	100%
149150	LD	50	20	Y	1000-1100	165	21%	29%	4%	5%	1%	13%	1%	2%	1%	0%	0%	1%	10%	1%	10%	2%	1%	0%	100%
149150	LD	50	19	Y	1100-1200	170	22%	29%	4%	5%	1%	12%	1%	2%	1%	0%	0%	1%	9%	1%	9%	2%	1%	0%	100%
149150	LD	50	18	Y	1200-1300	135	26%	27%	4%	4%	1%	12%	1%	2%	1%	0%	0%	1%	9%	0%	9%	2%	1%	0%	100%
149150	LD	50	20	Y	1300-1400	145	29%	26%	3%	5%	1%	11%	1%	1%	1%	0%	0%	1%	8%	1%	9%	2%	1%	0%	100%
149150	LD	50	20	Y	1400-1500	135	29%	26%	4%	4%	1%	11%	1%	1%	1%	0%	0%	1%	9%	1%	8%	2%	1%	0%	100%
149150	LD	50	20	Y	1500-1600	150	19%	11%	6%	9%	3%	20%	3%	0%	0%	0%	0%	0%	14%	3%	9%	3%	1%	0%	100%
149150	LD	50	19	Y	1600-1700	170	36%	17%	5%	3%	4%	8%	0%	0%	0%	0%	0%	2%	12%	0%	11%	2%	0%	0%	100%
149150	LD	50	19	Y	1700-1800	200	47%	18%	1%	3%	2%	3%	0%	2%	0%	0%	0%	2%	11%	0%	9%	3%	1%	0%	100%
149150	LD	50	19	Y	1800-1900	135	43%	30%	1%	1%	0%	3%	0%	0%	0%	0%	0%	1%	5%	0%	11%	1%	2%	0%	100%
149150	LD	50	21	Y	1900-2000	125	28%	26%	4%	4%	1%	11%	1%	2%	0%	0%	0%	2%	10%	1%	8%	2%	1%	0%	100%
149150	LD	50	19	Y	2000-2100	85	29%	27%	4%	4%	1%	12%	1%	1%	0%	0%	0%	1%	9%	0%	8%	2%	0%	0%	100%
149150	LD	50	19	Y	2100-2200	85	35%	26%	4%	4%	0%	11%	0%	0%	0%	0%	0%	1%	9%	0%	8%	2%	0%	0%	100%
149150	LD	50	20	Y	2200-2300	70	33%	27%	4%	4%	0%	11%	0%	0%	0%	0%	0%	0%	9%	0%	9%	3%	0%	0%	100%
149150	LD	50	22	Y	2300-0000	50	34%	26%	4%	4%	0%	12%	0%	2%	0%	0%	0%	0%	8%	0%	8%	2%	0%	0%	100%
103104	RR	50	30	Y	0000-0100	15	60%	40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
103104	RR	50	32	Y	0100-0200	10	60%	40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
103104	RR	50	31	Y	0200-0300	10	40%	40%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
103104	RR	50	50	Y	0300-0400	0	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
103104	RR	50	50	Y	0400-0500	0	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
103104	RR	50	30	Y	0500-0600	10	30%	40%	0%	30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
103104	RR	50	29	Y	0600-0700	35	49%	34%	6%	6%	0%	0%	0%	0%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
103104	RR	50	29	Y	0700-0800	30	37%	23%	7%	20%	0%	13%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
103104	RR	50	29	Y	0800-0900	40	33%	38%	0%	23%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
103104	RR	50	31	Y	0900-1000	25	52%	16%	0%	32%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
103104	RR	50	29	Y	1000-1100	55	33%	31%	0%	31%	0%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
103104	RR	50	28	Y	1100-1200	60	43%	28%	0%	23%	0%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
103104	RR	50	28	Y	1200-1300	55	33%	24%	2%	35%	2%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
103104	RR	50	30	Y	1300-1400	45	44%	16%	0%	36%	0%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
103104	RR	50	30	Y	1400-1500	35	43%	20%	0%	31%	0%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
103104	RR	50	31	Y	1500																				

Road ID	Road Type	Speed Limit (km/hr)	Average Speed (km/hr)	Start Emission Estimated by Broad Brush Approach (Y/N)	Hour	Total Vehicles (Veh/hr)	01 - Private Cars	02 - Taxi	03 - Light Goods Vehicles<=2.5t	04 - Light Goods Vehicles 2.5-3.5t	05 - Light Goods Vehicles>3.5t	06 - Medium Goods Vehicles<=15t	07 - Medium Goods Vehicles15-24t	08 - Public Light Buses	09 - Private Light Bus <=3.5t	10 - Private Light Bus >3.5t	11 - Non-franchised Bus<=6.4t	12 - Non-franchised Bus 6.4-15t	13 - Non-franchised Bus 15-24t	14 - Franchised Bus Single Deck	15 - Franchised Bus Double Deck	16 - Motorcycles	17 - Heavy Goods Vehicles>24t	18 - Non-franchised Bus >24t	Total
							PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9	
105106	RR	50	45	Y	0100-0200	10	90%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
105106	RR	50	46	Y	0200-0300	5	80%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
105106	RR	50	44	Y	0300-0400	5	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
105106	RR	50	50	Y	0400-0500	0	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
105106	RR	50	45	Y	0500-0600	15	73%	7%	0%	13%	0%	0%	0%	0%	0%	0%	0%	7%	0%	0%	0%	0%	0%	0%	100%
105106	RR	50	42	Y	0600-0700	85	65%	14%	7%	9%	0%	2%	0%	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	100%
105106	RR	50	42	Y	0700-0800	80	59%	9%	9%	6%	3%	11%	0%	0%	0%	3%	0%	0%	0%	0%	0%	1%	0%	0%	100%
105106	RR	50	42	Y	0800-0900	65	52%	12%	6%	14%	2%	11%	0%	0%	0%	2%	0%	0%	0%	0%	0%	2%	0%	0%	100%
105106	RR	50	43	Y	0900-1000	55	53%	7%	15%	18%	0%	0%	0%	0%	0%	4%	0%	0%	0%	0%	0%	4%	0%	0%	100%
105106	RR	50	44	Y	1000-1100	55	56%	9%	5%	15%	0%	9%	2%	0%	0%	0%	0%	0%	0%	0%	0%	4%	0%	0%	100%
105106	RR	50	43	Y	1100-1200	55	62%	9%	5%	11%	0%	11%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
105106	RR	50	43	Y	1200-1300	50	54%	8%	6%	16%	2%	10%	2%	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	100%
105106	RR	50	44	Y	1300-1400	45	60%	4%	7%	16%	2%	9%	0%	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	100%
105106	RR	50	44	Y	1400-1500	35	63%	6%	6%	14%	0%	11%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
105106	RR	50	43	Y	1500-1600	60	63%	3%	0%	17%	3%	0%	10%	0%	0%	3%	0%	0%	0%	0%	0%	0%	0%	0%	100%
105106	RR	50	40	Y	1600-1700	75	56%	13%	8%	12%	4%	1%	1%	0%	0%	3%	0%	1%	0%	0%	0%	0%	0%	0%	100%
105106	RR	50	41	Y	1700-1800	65	69%	15%	5%	9%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
105106	RR	50	43	Y	1800-1900	65	63%	15%	6%	15%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
105106	RR	50	46	Y	1900-2000	30	50%	20%	10%	17%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	3%	0%	0%	100%
105106	RR	50	45	Y	2000-2100	30	53%	23%	3%	10%	3%	0%	0%	0%	0%	3%	0%	0%	0%	0%	0%	3%	0%	0%	100%
105106	RR	50	43	Y	2100-2200	35	54%	26%	3%	9%	3%	0%	0%	0%	0%	6%	0%	0%	0%	0%	0%	0%	0%	0%	100%
105106	RR	50	45	Y	2200-2300	30	60%	23%	3%	7%	0%	0%	0%	0%	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	100%
105106	RR	50	46	Y	2300-0000	15	53%	47%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
113114	RR	50	32	Y	0000-0100	160	66%	27%	0%	0%	0%	1%	1%	1%	0%	0%	0%	0%	0%	0%	4%	1%	0%	0%	100%
113114	RR	50	38	Y	0100-0200	85	60%	32%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	8%	0%	0%	0%	100%
113114	RR	50	39	Y	0200-0300	55	56%	40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%	0%	0%	100%
113114	RR	50	42	Y	0300-0400	45	58%	38%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%	0%	0%	100%
113114	RR	50	42	Y	0400-0500	40	53%	43%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%	0%	0%	0%	100%
113114	RR	50	39	Y	0500-0600	85	53%	22%	0%	0%	0%	0%	0%	4%	1%	4%	0%	0%	0%	0%	14%	2%	0%	0%	100%
113114	RR	50	29	Y	0600-0700	495	68%	13%	1%	1%	1%	0%	0%	5%	2%	3%	1%	0%	1%	0%	3%	2%	0%	0%	100%
113114	RR	50	24	Y	0700-0800	895	64%	19%	2%	1%	0%	0%	0%	4%	1%	1%	0%	1%	3%	0%	2%	1%	0%	0%	100%
113114	RR	50	25	Y	0800-0900	775	59%	19%	3%	2%	1%	0%	1%	7%	0%	0%	1%	2%	2%	0%	1%	1%	1%	0%	100%
113114	RR	50	27	Y	0900-1000	695	54%	23%	4%	3%	1%	0%	1%	7%	0%	0%	1%	1%	3%	0%	1%	1%	1%	0%	100%
113114	RR	50	28	Y	1000-1100	560	63%	15%	4%	2%	0%	1%	1%	6%	0%	1%	0%	2%	1%	0%	1%	1%	1%	0%	100%
113114	RR	50	28	Y	1100-1200	555	62%	14%	4%	2%	0%	1%	1%	5%	1%	2%	1%	3%	2%	0%	1%	3%	0%	0%	100%
113114	RR	50	29	Y	1200-1300	555	58%	13%	6%	3%	1%	1%	1%	6%	1%	2%	1%	3%	2%	0%	1%	3%	0%	0%	100%
113114	RR	50	29	Y	1300-1400	705	62%	10%	4%	2%	0%	1%	1%	6%	1%	2%	1%	5%	2%	0%	1%	2%	0%	0%	100%
113114	RR	50	28	Y	1400-1500	625	64%	12%	3%	1%	1%	1%	0%	5%	0%	1%	1%	5%	3%	0%	1%	2%	0%	0%	100%
113114	RR	50	27	Y	1500-1600	590	59%	8%	3%	4%	1%	1%	0%	7%	1%	3%	0%	4%	4%	1%	1%	2%	0%	0%	100%
113114	RR	50	29	Y	1600-1700	785	63%	10%	5%	3%	1%	0%	0%	5%	0%	0%	0%	3%	3%	1%	2%	4%	0%	0%	100%
113114	RR	50	23	Y	1700-1800	795	60%	16%	6%	2%	1%	0%	0%	5%	0%	1%	0%	3%	2%	0%	2%	4%	0%	0%	100%
113114	RR	50	26	Y	1800-1900	780	62%	16%	4%	1%	0%	0%	0%	4%	0%	1%	0%	2%	3%	0%	2%	4%	0%	0%	100%
113114	RR	50	29	Y	1900-2000	650	65%	15%	3%	2%	0%	0%	0%	5%	0%	1%	0%	2%	1%	0%	2%	4%	0%	0%	100%
113114	RR	50	31	Y	2000-2100	480	71%	14%	1%	1%	0%	0%	0%	6%	0%	0%	0%	2%	1%	0%	1%	2%	0%	0%	100%
113114	RR	50	28	Y	2100-2200	480	70%	16%	1%	1%	0%	0%	0%	6%	0%	0%	0%	1%	1%	0%	1%	2%	0%	0%	100%
113114	RR	50	30	Y	2200-2300	380	70%	17%	0%	0%	0%	0%	0%	6%	0%	0%	1%	2%	1%	0%	1%	2%	0%	0%	100%
113114	RR	50	30	Y	2300-0000	270	71%	22%	0%	0%	0%	0%	0%	3%	0%	0%	0%	0%	0%	2%	1%	0%	0%	0%	100%
115116	RR	50	41	Y	0000-0100	55	80%	13%	0%	0%	0%	2%	2%	0%	0%	4%	0%	0%	0%	0%	0%	0%	0%	0%	100%
115116	RR	50	40	Y	0100-0200	30	87%	13%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
115116	RR	50	41	Y	0200-0300	20	90%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
115116	RR	50	38	Y	0300-0400	20	75%	15%	0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	100%
115116	RR	50	41	Y	0400-0500	15	73%	27%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
115116	RR	50	39	Y	0500-0600	30	77%	13%	0%	0%	0%	0%	0%	0%	3%	7%	0%	0%	0%	0%	0%	0%	0%	0%	100%
115116	RR	50	35	Y	0600-0700	170	85%	6%	1%	1%	0%	0%	0%	0%	0%	4%	4%	0%	0%	0%	0%	0%	0%	0%	100%
115116	RR	50	34	Y	0700-0800	250	78%	9%	3%	1%	0%	0%	0%	0%	1%	2%	0%	3%	2%	0%	0%	0%	0%	0%	100%
115116	RR	50	34	Y	0800-0900	305	67%	13%	5%	2%	1%	1%	1%	0%	0%	0%	2%	4%	0%	0%	0%	1%	2%	0%	100%
115116	RR	50	32	Y	0900-1000	300	64%	15%	6%	2%	2%	1%	1%	0%	0%	1%	3%	2%	0%	0%	1%	2%	0%	0%	100%
115116	RR	50	31	Y	1000-1100	245	64%	11%	5%	2%	4%	1%	1%	0%	0%	4%	2%	3%	1%	0%	0%	1%	2%	0%	100%
115116	RR	50	31	Y	1100-1200	225	68%	11%	6%	2%	4%	0%	1%	0%	0%	2%	1%	2%	0%	0%	0%	0%	1%	0%	100%
115116	RR	50	31	Y	1200-1300	235	74%	7%	3%	3%	3%	0%	1%	0%	0%	2%	2%	3%	0%	0%	0%	0%	1%	0%	100%
115116	RR	50	33	Y	1300-1400	235	73%	4%	3%	2%	6%	0%	0%	0%	0%	1%	2%	4%	0%	0%	0%	4%	1%	0%	100%
115116	RR	50	32	Y	1400-1500	245	76%	5%	2%	1%	4%	0%	0%	0%	0%	1%	1%	4%	0%	0%	0%	2%	1%	0%	100%
115116	RR	50	33	Y	1500-1600	215	67%	5%	5%	8%	1%	2%	0%	0%	1%	1%	1%	7%	0%	0%	0%	3%	0%	0%	100%
115116	RR	50	33	Y	1600-1700	290	73%	5%	6%	4%	2%	1%	1%	0%	0%	0%	0%	6%	0%	0%	0%	3%	0%	0%	100%
1																									

Road ID	Road Type	Speed Limit (km/hr)	Average Speed (km/hr)	Start Emission Estimated by Broad Brush Approach (Y/N)	Hour	Total Vehicles (Veh/hr)	01 - Private Cars	02 - Taxi	03 - Light Goods Vehicles<=2.5t	04 - Light Goods Vehicles 2.5-3.5t	05 - Light Goods Vehicles>3.5t	06 - Medium Goods Vehicles<=3.5t	07 - Medium Goods Vehicles>3.5t	08 - Public Light Buses	09 - Private Light Bus <=3.5t	10 - Private Light Bus >3.5t	11 - Non-franchised Bus<=6.4t	12 - Non-franchised Bus 6.4-15t	13 - Non-franchised Bus 15-24t	14 - Franchised Bus Single Deck	15 - Franchised Bus Double Deck	16 - Motorcycles	17 - Heavy Goods Vehicles>24t	18 - Non-franchised Bus >24t	Total	
							PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9		
163164	LD	50	23	Y	0500-0600	10	80%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	10%	0%	0%	0%	0%	0%	100%	
163164	LD	50	22	Y	0600-0700	15	27%	27%	0%	0%	40%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
163164	LD	50	21	Y	0700-0800	20	50%	0%	5%	0%	0%	45%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	
163164	LD	50	21	Y	0800-0900	40	35%	8%	3%	13%	3%	13%	0%	0%	0%	0%	0%	5%	15%	0%	0%	3%	5%	0%	100%	
163164	LD	50	18	Y	0900-1000	50	32%	12%	0%	12%	0%	8%	0%	0%	0%	0%	0%	8%	16%	0%	0%	4%	8%	0%	100%	
163164	LD	50	22	Y	1000-1100	15	33%	13%	7%	13%	0%	27%	0%	0%	0%	0%	0%	0%	7%	0%	0%	0%	0%	0%	100%	
163164	LD	50	23	Y	1100-1200	15	53%	13%	0%	13%	0%	13%	0%	0%	0%	0%	0%	0%	7%	0%	0%	0%	0%	0%	100%	
163164	LD	50	21	Y	1200-1300	20	45%	25%	5%	10%	0%	15%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	
163164	LD	50	23	Y	1300-1400	15	40%	20%	0%	20%	0%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	
163164	LD	50	21	Y	1400-1500	20	50%	10%	5%	10%	0%	20%	0%	0%	0%	0%	0%	0%	5%	0%	0%	0%	0%	0%	100%	
163164	LD	50	22	Y	1500-1600	10	60%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	20%	0%	0%	100%	
163164	LD	50	21	Y	1600-1700	20	30%	0%	0%	10%	0%	30%	0%	0%	0%	0%	0%	10%	20%	0%	0%	0%	0%	0%	100%	
163164	LD	50	21	Y	1700-1800	10	60%	0%	0%	0%	20%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	
163164	LD	50	23	Y	1800-1900	10	40%	0%	0%	0%	30%	30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	
163164	LD	50	22	Y	1900-2000	5	80%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	
163164	LD	50	22	Y	2000-2100	5	80%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	
163164	LD	50	23	Y	2100-2200	5	80%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	
163164	LD	50	23	Y	2200-2300	5	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	
163164	LD	50	24	Y	2300-0000	0	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
167168	LD	50	22	Y	0000-0100	10	60%	40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	
167168	LD	50	24	Y	0100-0200	10	90%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	
167168	LD	50	24	Y	0200-0300	10	90%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	
167168	LD	50	22	Y	0300-0400	10	90%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	
167168	LD	50	25	Y	0400-0500	15	53%	13%	0%	0%	0%	0%	0%	0%	0%	0%	0%	20%	7%	7%	0%	0%	0%	0%	100%	
167168	LD	50	22	Y	0500-0600	25	44%	16%	4%	0%	4%	0%	0%	0%	0%	0%	0%	24%	4%	4%	0%	0%	0%	0%	100%	
167168	LD	50	21	Y	0600-0700	45	42%	20%	4%	9%	0%	0%	0%	0%	0%	0%	0%	11%	0%	0%	13%	0%	0%	0%	100%	
167168	LD	50	17	Y	0700-0800	115	39%	30%	2%	3%	1%	3%	1%	0%	0%	0%	0%	7%	9%	0%	6%	0%	0%	0%	100%	
167168	LD	50	17	Y	0800-0900	100	14%	52%	0%	4%	2%	0%	2%	0%	0%	0%	0%	10%	8%	4%	4%	0%	0%	0%	100%	
167168	LD	50	20	Y	0900-1000	70	11%	60%	0%	0%	0%	0%	0%	0%	0%	0%	0%	17%	0%	0%	11%	0%	0%	0%	100%	
167168	LD	50	21	Y	1000-1100	60	38%	22%	3%	7%	0%	3%	0%	0%	0%	0%	0%	3%	3%	5%	12%	3%	0%	0%	100%	
167168	LD	50	21	Y	1100-1200	65	46%	20%	5%	5%	0%	0%	0%	0%	0%	0%	0%	5%	5%	0%	11%	5%	0%	0%	100%	
167168	LD	50	19	Y	1200-1300	75	33%	35%	3%	5%	0%	1%	3%	0%	0%	0%	0%	5%	3%	1%	11%	0%	0%	0%	100%	
167168	LD	50	20	Y	1300-1400	60	32%	27%	3%	8%	2%	5%	0%	0%	0%	0%	0%	7%	3%	3%	10%	0%	0%	0%	100%	
167168	LD	50	21	Y	1400-1500	60	37%	18%	3%	5%	2%	3%	3%	0%	0%	0%	0%	10%	5%	0%	13%	0%	0%	0%	100%	
167168	LD	50	17	Y	1500-1600	105	52%	15%	2%	8%	4%	2%	0%	0%	0%	0%	0%	4%	4%	8%	0%	2%	0%	0%	100%	
167168	LD	50	16	Y	1600-1700	115	52%	10%	3%	1%	1%	1%	1%	0%	0%	0%	0%	9%	14%	0%	9%	0%	0%	0%	100%	
167168	LD	50	20	Y	1700-1800	60	37%	25%	0%	0%	0%	2%	0%	0%	0%	0%	0%	13%	8%	0%	10%	5%	0%	0%	100%	
167168	LD	50	22	Y	1800-1900	35	26%	23%	0%	0%	0%	0%	0%	0%	0%	0%	0%	23%	0%	0%	23%	6%	0%	0%	100%	
167168	LD	50	22	Y	1900-2000	30	23%	33%	0%	3%	0%	0%	0%	0%	0%	0%	0%	13%	0%	0%	27%	0%	0%	0%	100%	
167168	LD	50	22	Y	2000-2100	30	50%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%	3%	0%	20%	0%	0%	0%	100%	
167168	LD	50	22	Y	2100-2200	20	45%	45%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	100%	
167168	LD	50	23	Y	2200-2300	15	67%	27%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	
167168	LD	50	23	Y	2300-0000	10	70%	30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	
271	RR	50	43	Y	0000-0100	80	69%	15%	1%	3%	0%	0%	5%	3%	0%	0%	0%	0%	0%	0%	5%	0%	0%	0%	100%	
271	RR	50	45	Y	0100-0200	35	66%	23%	0%	0%	0%	0%	9%	0%	0%	0%	0%	0%	0%	0%	0%	3%	0%	0%	100%	
271	RR	50	46	Y	0200-0300	25	56%	24%	0%	0%	0%	4%	16%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	
271	RR	50	47	Y	0300-0400	20	45%	20%	5%	0%	0%	0%	25%	0%	0%	0%	0%	0%	0%	0%	0%	5%	0%	0%	100%	
271	RR	50	48	Y	0400-0500	25	32%	36%	4%	0%	0%	4%	16%	0%	0%	0%	0%	0%	0%	0%	8%	0%	0%	0%	100%	
271	RR	50	42	Y	0500-0600	80	40%	24%	5%	3%	0%	3%	8%	5%	0%	6%	0%	0%	0%	0%	8%	0%	0%	0%	100%	
271	RR	50	35	Y	0600-0700	390	52%	6%	8%	3%	4%	1%	9%	7%	0%	1%	2%	2%	0%	0%	2%	4%	1%	0%	100%	
271	RR	50	34	Y	0700-0800	325	45%	8%	9%	4%	2%	2%	14%	5%	1%	2%	1%	2%	1%	1%	1%	1%	2%	0%	100%	
271	RR	50	37	Y	0800-0900	380	43%	11%	9%	6%	3%	3%	15%	3%	1%	0%	1%	1%	1%	0%	2%	1%	1%	0%	100%	
271	RR	50	36	Y	0900-1000	390	42%	11%	9%	4%	4%	3%	15%	6%	1%	0%	1%	1%	0%	0%	2%	1%	0%	0%	100%	
271	RR	50	36	Y	1000-1100	260	40%	5%	12%	3%	3%	3%	22%	5%	0%	1%	0%	1%	0%	0%	1%	1%	2%	0%	100%	
271	RR	50	37	Y	1100-1200	310	44%	5%	9%	3%	3%	3%	22%	3%	1%	0%	1%	1%	0%	0%	1%	1%	2%	0%	100%	
271	RR	50	38	Y	1200-1300	230	39%	6%	13%	3%	3%	3%	22%	3%	1%	0%	0%	2%	0%	0%	1%	1%	1%	0%	100%	
271	RR	50	34	Y	1300-1400	340	44%	4%	12%	3%	3%	3%	22%	2%	1%	0%	1%	1%	0%	0%	1%	1%	2%	0%	100%	
271	RR	50	36	Y	1400-1500	320	44%	5%	11%	3%	3%	3%	22%	3%	0%	0%	1%	1%	0%	0%	1%	0%	2%	0%	100%	
271	RR	50	35	Y	1500-1600	465	46%	7%	12%	4%	3%	2%	15%	4%	1%	0%	0%	2%	0%	1%	2%	2%	1%	0%	100%	
271	RR	50	37	Y	1600-1700	415	51%	7%	13%	3%	2%	1%	10%	3%	4%	0%	0%	2%	0%	0%	1%	2%	1%	0%	100%	
271	RR	50	35	Y	1700-1800	350	59%	6%	9%	3%	1%	0%	13%	2%	0%	1%	0%	0%	0%	2%	1%	0%	0%	0%	100%	
271	RR	50	36	Y	1800-1900	295	62%	6%	6%	3%	1%	1%	11%	3%	0%	0%	0%	2%	0%	0%	3%	1%	1%	0%	100%	
271	RR	50	36	Y	1900-2000	280	58%	6%	8%	3%	3%	1%	10%	3%	1%	0%	1%	1%	0%	0%	1%	3%	1%	0%	100%	
271	RR	50	35	Y	2000-2100	215	63%	5%	7%	2%	2%	1%	10%	4%	0%	0%	1%	1%	0%	0%	1%	2%	1%	0%	100%	
271	RR	50	3																							

Road ID	Road Type	Speed Limit (km/hr)	Average Speed (km/hr)	Start Emission Estimated by Broad Brush Approach (Y/N)	Hour	Total Vehicles (Veh/hr)	01 - Private Cars	02 - Taxi	03 - Light Goods Vehicles <=2.5t	04 - Light Goods Vehicles 2.5-3.5t	05 - Light Goods Vehicles >3.5t	06 - Medium Goods Vehicles <=15t	07 - Medium Goods Vehicles 15-24t	08 - Public Light Buses	09 - Private Light Bus <=3.5t	10 - Private Light Bus >3.5t	11 - Non-franchised Bus <=6.4t	12 - Non-franchised Bus 6.4-15t	13 - Non-franchised Bus 15-24t	14 - Franchised Bus Single Deck	15 - Franchised Bus Double Deck	16 - Motorcycles	17 - Heavy Goods Vehicles >24t	18 - Non-franchised Bus >24t	Total
							PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9	
107	PD	70	51	N	0700-0800	1235	47%	14%	5%	6%	3%	2%	2%	8%	1%	1%	1%	3%	4%	0%	0%	4%	0%	0%	100%
107	PD	70	52	N	0800-0900	1095	58%	13%	4%	3%	2%	6%	2%	6%	0%	0%	0%	2%	2%	0%	0%	1%	0%	0%	100%
107	PD	70	52	N	0900-1000	1130	56%	12%	5%	3%	3%	3%	1%	5%	0%	0%	1%	3%	3%	0%	1%	2%	2%	0%	100%
107	PD	70	54	N	1000-1100	1030	52%	9%	5%	5%	3%	3%	3%	7%	1%	1%	0%	3%	2%	0%	0%	3%	3%	0%	100%
107	PD	70	55	N	1100-1200	975	45%	14%	9%	5%	5%	3%	3%	4%	1%	1%	0%	2%	2%	0%	1%	1%	3%	0%	100%
107	PD	70	54	N	1200-1300	930	56%	10%	4%	3%	2%	4%	4%	4%	0%	0%	1%	3%	3%	0%	1%	1%	4%	0%	100%
107	PD	70	52	N	1300-1400	1085	52%	11%	5%	6%	5%	4%	4%	5%	0%	1%	0%	1%	0%	0%	0%	1%	4%	0%	100%
107	PD	70	55	N	1400-1500	975	58%	6%	8%	9%	5%	1%	1%	4%	0%	1%	0%	1%	0%	0%	0%	2%	3%	0%	100%
107	PD	70	56	N	1500-1600	935	52%	8%	4%	6%	3%	3%	5%	5%	0%	1%	0%	2%	2%	0%	0%	4%	4%	0%	100%
107	PD	70	55	N	1600-1700	1100	62%	6%	4%	6%	2%	2%	2%	3%	0%	0%	0%	2%	1%	0%	1%	4%	3%	0%	100%
107	PD	70	53	N	1700-1800	1120	63%	13%	4%	4%	2%	2%	2%	3%	1%	0%	0%	1%	0%	1%	2%	2%	1%	0%	100%
107	PD	70	57	N	1800-1900	740	61%	13%	4%	3%	1%	3%	2%	6%	1%	1%	0%	2%	1%	0%	1%	2%	2%	0%	100%
107	PD	70	60	N	1900-2000	560	63%	10%	3%	3%	2%	2%	2%	6%	1%	1%	0%	3%	1%	0%	0%	2%	0%	0%	100%
107	PD	70	61	N	2000-2100	605	64%	14%	1%	3%	1%	2%	2%	3%	0%	0%	0%	1%	1%	0%	1%	4%	1%	0%	100%
107	PD	70	61	N	2100-2200	495	79%	9%	1%	2%	1%	1%	1%	4%	0%	1%	0%	0%	0%	0%	0%	1%	0%	0%	100%
107	PD	70	59	N	2200-2300	560	66%	12%	1%	3%	0%	2%	3%	6%	0%	1%	0%	2%	1%	0%	0%	2%	0%	0%	100%
107	PD	70	59	N	2300-0000	410	65%	23%	0%	0%	0%	2%	2%	4%	0%	0%	0%	1%	1%	0%	0%	1%	0%	0%	100%
109	PD	70	61	N	0000-0100	225	64%	28%	0%	0%	0%	0%	0%	4%	0%	0%	0%	0%	0%	0%	2%	2%	0%	0%	100%
109	PD	70	63	N	0100-0200	120	59%	38%	0%	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	2%	0%	0%	0%	100%
109	PD	70	63	N	0200-0300	80	58%	38%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	3%	0%	0%	100%
109	PD	70	62	N	0300-0400	70	47%	36%	1%	1%	0%	3%	1%	0%	0%	0%	0%	0%	1%	4%	3%	1%	1%	0%	100%
109	PD	70	63	N	0400-0500	75	39%	39%	0%	1%	3%	3%	3%	4%	1%	0%	0%	0%	0%	0%	5%	1%	1%	0%	100%
109	PD	70	63	N	0500-0600	200	60%	22%	2%	2%	2%	2%	0%	4%	1%	3%	0%	0%	0%	0%	4%	1%	0%	0%	100%
109	PD	70	52	N	0600-0700	1170	64%	6%	3%	8%	3%	2%	2%	3%	1%	1%	0%	2%	0%	0%	2%	2%	0%	0%	100%
109	PD	70	52	N	0700-0800	1195	46%	14%	5%	6%	3%	2%	2%	8%	1%	1%	1%	3%	5%	0%	0%	4%	1%	0%	100%
109	PD	70	53	N	0800-0900	1070	58%	13%	4%	3%	2%	6%	2%	6%	0%	0%	0%	2%	2%	0%	0%	1%	0%	0%	100%
109	PD	70	54	N	0900-1000	1110	56%	12%	5%	3%	3%	3%	1%	5%	0%	0%	1%	3%	3%	0%	1%	2%	2%	0%	100%
109	PD	70	54	N	1000-1100	1010	52%	9%	5%	5%	4%	3%	3%	7%	1%	1%	0%	3%	2%	0%	0%	3%	3%	0%	100%
109	PD	70	56	N	1100-1200	955	45%	15%	9%	5%	5%	3%	3%	4%	1%	1%	0%	2%	2%	0%	1%	1%	3%	0%	100%
109	PD	70	58	N	1200-1300	905	56%	10%	4%	3%	2%	4%	4%	4%	0%	0%	1%	3%	3%	0%	1%	1%	4%	0%	100%
109	PD	70	55	N	1300-1400	1060	52%	11%	5%	6%	5%	4%	4%	5%	0%	1%	0%	1%	0%	0%	0%	1%	4%	0%	100%
109	PD	70	55	N	1400-1500	955	58%	6%	8%	9%	5%	1%	1%	4%	0%	1%	0%	1%	0%	0%	0%	2%	3%	0%	100%
109	PD	70	55	N	1500-1600	920	52%	9%	4%	6%	3%	3%	5%	5%	0%	1%	0%	2%	2%	0%	0%	4%	4%	0%	100%
109	PD	70	53	N	1600-1700	1075	63%	6%	4%	6%	2%	2%	2%	4%	0%	0%	0%	2%	1%	0%	1%	4%	3%	0%	100%
109	PD	70	55	N	1700-1800	1095	63%	13%	4%	4%	2%	2%	2%	4%	1%	0%	0%	1%	0%	0%	1%	2%	1%	0%	100%
109	PD	70	58	N	1800-1900	715	61%	13%	3%	3%	1%	3%	2%	6%	1%	1%	0%	2%	1%	0%	1%	1%	2%	0%	100%
109	PD	70	59	N	1900-2000	535	64%	10%	3%	3%	2%	2%	2%	6%	1%	1%	0%	3%	1%	0%	0%	2%	0%	0%	100%
109	PD	70	58	N	2000-2100	585	65%	13%	1%	3%	1%	2%	2%	3%	0%	0%	0%	2%	2%	0%	1%	4%	1%	0%	100%
109	PD	70	61	N	2100-2200	475	81%	8%	1%	1%	0%	1%	1%	4%	0%	1%	0%	0%	0%	0%	0%	1%	0%	0%	100%
109	PD	70	59	N	2200-2300	545	67%	11%	1%	2%	0%	2%	3%	6%	0%	1%	0%	2%	1%	0%	0%	2%	0%	0%	100%
109	PD	70	60	N	2300-0000	400	65%	22%	0%	0%	0%	2%	2%	4%	0%	0%	0%	1%	1%	0%	0%	1%	1%	0%	100%
111	RR	70	63	Y	0000-0100	235	64%	23%	0%	1%	0%	0%	1%	4%	0%	0%	0%	0%	0%	0%	3%	3%	0%	0%	100%
111	RR	70	63	Y	0100-0200	125	60%	30%	0%	1%	0%	1%	2%	3%	0%	0%	0%	0%	0%	0%	3%	1%	0%	0%	100%
111	RR	70	63	Y	0200-0300	80	56%	34%	1%	0%	0%	1%	3%	1%	0%	0%	0%	0%	0%	0%	1%	3%	0%	0%	100%
111	RR	70	60	Y	0300-0400	65	45%	32%	2%	2%	0%	3%	5%	2%	2%	2%	0%	0%	0%	0%	2%	5%	2%	0%	100%
111	RR	70	64	Y	0400-0500	60	33%	38%	2%	2%	2%	3%	7%	3%	2%	0%	0%	0%	0%	0%	5%	2%	2%	0%	100%
111	RR	70	64	Y	0500-0600	130	43%	20%	3%	2%	2%	3%	5%	6%	2%	5%	0%	0%	0%	1%	5%	2%	1%	0%	100%
111	RR	70	59	Y	0600-0700	570	47%	15%	4%	3%	3%	1%	4%	7%	3%	2%	2%	1%	2%	0%	3%	3%	0%	0%	100%
111	RR	70	54	Y	0700-0800	1160	40%	18%	6%	5%	5%	1%	2%	7%	2%	2%	1%	3%	3%	0%	1%	3%	0%	0%	100%
111	RR	70	51	Y	0800-0900	1320	60%	10%	3%	3%	2%	2%	3%	6%	2%	2%	1%	3%	3%	0%	1%	1%	0%	0%	100%
111	RR	70	52	Y	0900-1000	1155	49%	14%	4%	3%	3%	2%	4%	7%	1%	1%	1%	3%	3%	0%	1%	1%	3%	0%	100%
111	RR	70	55	Y	1000-1100	955	43%	10%	6%	4%	4%	3%	6%	7%	3%	2%	1%	2%	2%	0%	1%	2%	4%	0%	100%
111	RR	70	55	Y	1100-1200	945	46%	11%	6%	4%	4%	3%	5%	5%	2%	2%	1%	2%	2%	0%	1%	3%	4%	0%	100%
111	RR	70	53	Y	1200-1300	1110	48%	9%	3%	3%	3%	4%	6%	6%	3%	2%	1%	3%	2%	0%	1%	3%	3%	0%	100%
111	RR	70	54	Y	1300-1400	1115	48%	6%	5%	4%	4%	3%	6%	8%	2%	2%	1%	2%	3%	0%	1%	3%	3%	0%	100%
111	RR	70	55	Y	1400-1500	995	55%	6%	6%	5%	4%	2%	3%	5%	2%	1%	1%	2%	2%	0%	1%	3%	3%	0%	100%
111	RR	70	54	Y	1500-1600	1010	41%	13%	5%	4%	4%	4%	7%	7%	2%	2%	1%	2%	1%	1%	3%	4%	0%	0%	100%
111	RR	70	54	Y	1600-1700	1150	49%	8%	5%	4%	4%	3%	6%	6%	2%	2%	0%	2%	1%	0%	1%	3%	3%	0%	100%
111	RR	70	48	Y	1700-1800	1300	56%	8%	6%	5%	4%	2%	3%	5%	2%	2%	0%	1%	1%	0%	1%	3%	1%	0%	100%
111	RR	70	51	Y	1800-1900	1295	64%	10%	3%	2%	2%	1%	2%	5%	1%	1%	0%	1%	1%	0%	1%	3%	1%	0%	100%
111	RR	70	56	Y	1900-2000	995	64%	8%	3%	2%	2%	1%	3%	6%	1%	1%	1%	2%	2%	0%	1%	4%	0%	0%	100%
111	RR	70	58	Y	2000-2100	750	66%	8%	2%	1%	1%	1%	3%	7%	1%	1%	0%	1%	1%	0%	1%	4%	0%	0%	100%
111	RR	70	56	Y	2100-2200	775	71%	7%	2%	1%	1%	1%	2%	6%	1%	1%	0%	1%	1%	0%	1%	2%	0%	0%	100%
111	RR	70	59	Y	2200-2300	595	63%	10%	3%	2%	2%	1%	3%	7%	1%	1%	1%	2%	2%	0%	1%	2%	0%	0%	100%
111	RR	70	61	Y	2300-0000	415	69%	18%	0%	0%	0%	1%	2%	4%	1%	1%	0%	1%	1%	0%	2%	1%	0%	0%	100%
117	RR	7																							

Road ID	Road Type	Speed Limit (km/hr)	Average Speed (km/hr)	Start Emission Estimated by Broad Brush Approach (Y/N)	Hour	Total Vehicles (Veh/hr)	01 - Private Cars	02 - Taxi	03 - Light Goods Vehicles<=2.5t	04 - Light Goods Vehicles 2.5-3.5t	05 - Light Goods Vehicles>3.5t	06 - Medium Goods Vehicles<=3.5t	07 - Medium Goods Vehicles>3.5t	08 - Public Light Buses	09 - Private Light Bus <=3.5t	10 - Private Light Bus >3.5t	11 - Non-franchised Bus<=6.4t	12 - Non-franchised Bus 6.4-15t	13 - Non-franchised Bus 15-24t	14 - Franchised Bus Single Deck	15 - Franchised Bus Double Deck	16 - Motorcycles	17 - Heavy Goods Vehicles>24t	18 - Non-franchised Bus >24t	Total
							PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9	
123	RR	50	40	Y	1100-1200	495	44%	8%	6%	6%	7%	4%	2%	6%	3%	3%	0%	2%	2%	0%	1%	3%	1%	0%	100%
123	RR	50	33	Y	1200-1300	655	45%	9%	2%	3%	3%	5%	7%	7%	4%	3%	1%	3%	3%	0%	1%	4%	2%	0%	100%
123	RR	50	37	Y	1300-1400	600	43%	4%	5%	6%	6%	5%	4%	11%	3%	2%	1%	2%	4%	0%	1%	3%	2%	0%	100%
123	RR	50	39	Y	1400-1500	500	53%	5%	6%	7%	7%	2%	0%	6%	3%	2%	0%	1%	2%	0%	0%	4%	1%	0%	100%
123	RR	50	40	Y	1500-1600	435	30%	20%	1%	3%	6%	7%	9%	9%	3%	2%	1%	0%	0%	0%	0%	5%	2%	0%	100%
123	RR	50	36	Y	1600-1700	530	42%	5%	2%	5%	7%	6%	8%	9%	4%	4%	1%	0%	1%	0%	0%	4%	2%	0%	100%
123	RR	50	34	Y	1700-1800	660	50%	4%	6%	8%	8%	3%	3%	6%	3%	3%	1%	0%	1%	0%	0%	4%	1%	0%	100%
123	RR	50	32	Y	1800-1900	720	65%	6%	2%	3%	3%	2%	2%	7%	3%	2%	1%	0%	1%	0%	0%	3%	1%	0%	100%
123	RR	50	39	Y	1900-2000	535	58%	7%	4%	2%	3%	1%	2%	7%	2%	2%	0%	2%	2%	0%	1%	5%	0%	0%	100%
123	RR	50	40	Y	2000-2100	390	62%	6%	2%	2%	2%	2%	2%	8%	2%	2%	0%	2%	2%	0%	1%	6%	0%	0%	100%
123	RR	50	41	Y	2100-2200	395	68%	6%	1%	2%	2%	1%	2%	8%	2%	2%	0%	1%	1%	0%	1%	2%	0%	0%	100%
123	RR	50	44	Y	2200-2300	310	58%	8%	3%	3%	3%	1%	2%	9%	2%	2%	0%	3%	2%	0%	1%	3%	0%	0%	100%
123	RR	50	44	Y	2300-0000	210	63%	18%	0%	0%	0%	1%	2%	5%	1%	1%	1%	1%	1%	0%	1%	1%	0%	0%	100%
124	RR	50	47	Y	0000-0100	110	70%	14%	0%	0%	0%	1%	0%	5%	1%	1%	0%	0%	0%	1%	4%	4%	0%	0%	100%
124	RR	50	48	Y	0100-0200	60	67%	18%	0%	0%	0%	3%	2%	5%	0%	0%	0%	0%	0%	2%	0%	2%	2%	0%	100%
124	RR	50	47	Y	0200-0300	35	63%	26%	0%	0%	0%	3%	3%	0%	0%	0%	0%	0%	0%	0%	3%	0%	3%	0%	100%
124	RR	50	49	Y	0300-0400	30	43%	27%	0%	0%	0%	7%	3%	0%	3%	3%	0%	0%	0%	0%	3%	7%	3%	0%	100%
124	RR	50	48	Y	0400-0500	30	43%	30%	3%	0%	0%	3%	7%	0%	0%	0%	0%	0%	0%	0%	7%	3%	3%	0%	100%
124	RR	50	47	Y	0500-0600	35	26%	14%	3%	3%	6%	9%	14%	9%	3%	0%	0%	0%	0%	3%	3%	3%	6%	0%	100%
124	RR	50	46	Y	0600-0700	100	23%	19%	11%	4%	2%	6%	2%	4%	6%	3%	2%	4%	5%	2%	1%	5%	1%	0%	100%
124	RR	50	45	Y	0700-0800	600	69%	3%	4%	4%	5%	2%	1%	3%	2%	1%	1%	3%	2%	1%	0%	2%	0%	0%	100%
124	RR	50	42	Y	0800-0900	765	64%	2%	3%	3%	3%	3%	2%	5%	3%	2%	1%	4%	3%	0%	1%	1%	1%	0%	100%
124	RR	50	44	Y	0900-1000	560	51%	11%	2%	2%	2%	6%	8%	6%	2%	2%	0%	3%	1%	1%	0%	0%	2%	0%	100%
124	RR	50	44	Y	1000-1100	505	48%	9%	2%	4%	5%	7%	9%	4%	4%	3%	0%	0%	0%	1%	1%	1%	2%	0%	100%
124	RR	50	45	Y	1100-1200	450	55%	6%	2%	3%	5%	5%	4%	7%	2%	1%	0%	0%	1%	0%	1%	6%	2%	0%	100%
124	RR	50	41	Y	1200-1300	680	50%	9%	1%	3%	4%	5%	6%	8%	3%	2%	0%	1%	1%	0%	1%	5%	1%	0%	100%
124	RR	50	44	Y	1300-1400	510	49%	6%	1%	4%	5%	5%	4%	11%	2%	1%	0%	1%	4%	0%	0%	5%	1%	0%	100%
124	RR	50	44	Y	1400-1500	465	56%	9%	0%	3%	3%	5%	3%	9%	3%	2%	0%	1%	3%	0%	0%	2%	1%	0%	100%
124	RR	50	43	Y	1500-1600	470	36%	16%	2%	4%	5%	7%	7%	9%	4%	2%	1%	2%	2%	0%	0%	0%	3%	0%	100%
124	RR	50	46	Y	1600-1700	500	35%	12%	0%	4%	4%	8%	11%	11%	4%	4%	1%	2%	1%	0%	0%	0%	2%	0%	100%
124	RR	50	43	Y	1700-1800	675	52%	7%	3%	5%	6%	3%	3%	8%	2%	2%	1%	2%	2%	0%	0%	3%	1%	0%	100%
124	RR	50	43	Y	1800-1900	730	63%	10%	1%	2%	3%	2%	1%	9%	2%	1%	1%	1%	0%	0%	1%	4%	1%	0%	100%
124	RR	50	43	Y	1900-2000	500	62%	11%	0%	2%	2%	1%	0%	10%	1%	1%	0%	2%	2%	0%	1%	5%	0%	0%	100%
124	RR	50	43	Y	2000-2100	375	58%	10%	1%	2%	2%	1%	1%	15%	2%	2%	0%	2%	3%	0%	0%	2%	0%	0%	100%
124	RR	50	45	Y	2100-2200	395	47%	22%	1%	2%	3%	1%	0%	14%	2%	2%	0%	3%	3%	0%	1%	3%	0%	0%	100%
124	RR	50	45	Y	2200-2300	280	61%	9%	2%	3%	3%	1%	0%	10%	1%	1%	0%	2%	3%	0%	1%	1%	0%	0%	100%
124	RR	50	47	Y	2300-0000	190	74%	14%	0%	1%	1%	1%	1%	2%	1%	1%	1%	1%	1%	0%	1%	2%	0%	0%	100%
122	RR	50 - 70	58	Y	0000-0100	150	69%	15%	1%	0%	0%	1%	2%	5%	1%	1%	0%	0%	0%	1%	4%	3%	0%	0%	100%
122	RR	50 - 70	59	Y	0100-0200	75	65%	20%	0%	0%	0%	3%	4%	4%	0%	0%	0%	0%	0%	1%	0%	1%	1%	0%	100%
122	RR	50 - 70	59	Y	0200-0300	45	58%	27%	0%	0%	0%	4%	7%	0%	0%	0%	0%	0%	0%	0%	2%	0%	2%	0%	100%
122	RR	50 - 70	60	Y	0300-0400	40	45%	25%	0%	0%	0%	5%	10%	0%	3%	3%	0%	0%	0%	0%	3%	5%	3%	0%	100%
122	RR	50 - 70	59	Y	0400-0500	35	34%	31%	3%	0%	0%	6%	11%	0%	0%	0%	0%	0%	0%	9%	3%	3%	3%	0%	100%
122	RR	50 - 70	57	Y	0500-0600	75	40%	13%	4%	3%	3%	7%	12%	7%	1%	0%	0%	0%	0%	1%	5%	1%	3%	0%	100%
122	RR	50 - 70	56	Y	0600-0700	330	46%	9%	8%	3%	3%	2%	6%	6%	2%	2%	2%	2%	1%	2%	3%	1%	0%	0%	100%
122	RR	50 - 70	51	Y	0700-0800	775	63%	4%	4%	4%	4%	2%	4%	3%	2%	1%	1%	3%	1%	1%	0%	2%	1%	0%	100%
122	RR	50 - 70	49	Y	0800-0900	955	60%	4%	4%	3%	3%	3%	5%	5%	2%	2%	1%	3%	3%	0%	1%	1%	1%	0%	100%
122	RR	50 - 70	53	Y	0900-1000	765	48%	12%	4%	3%	2%	5%	10%	6%	2%	2%	0%	2%	1%	0%	1%	0%	1%	0%	100%
122	RR	50 - 70	53	Y	1000-1100	635	47%	9%	4%	4%	5%	6%	11%	4%	3%	2%	0%	0%	0%	1%	1%	1%	2%	0%	100%
122	RR	50 - 70	54	Y	1100-1200	610	54%	6%	3%	3%	4%	5%	8%	6%	2%	1%	0%	0%	1%	0%	1%	5%	2%	0%	100%
122	RR	50 - 70	52	Y	1200-1300	790	47%	9%	3%	3%	4%	4%	8%	8%	3%	2%	0%	1%	1%	0%	1%	5%	2%	0%	100%
122	RR	50 - 70	54	Y	1300-1400	685	48%	6%	4%	4%	5%	4%	8%	9%	2%	1%	0%	1%	3%	0%	0%	4%	1%	0%	100%
122	RR	50 - 70	53	Y	1400-1500	635	52%	8%	3%	3%	3%	5%	9%	7%	2%	1%	0%	1%	2%	0%	0%	2%	2%	0%	100%
122	RR	50 - 70	54	Y	1500-1600	675	38%	13%	5%	4%	4%	5%	10%	7%	3%	1%	1%	2%	2%	0%	1%	1%	2%	0%	100%
122	RR	50 - 70	52	Y	1600-1700	690	38%	10%	4%	4%	4%	6%	10%	9%	4%	3%	1%	2%	1%	0%	1%	1%	2%	0%	100%
122	RR	50 - 70	53	Y	1700-1800	840	52%	7%	5%	5%	5%	2%	4%	7%	2%	1%	1%	2%	2%	0%	1%	3%	1%	0%	100%
122	RR	50 - 70	51	Y	1800-1900	875	62%	10%	2%	2%	3%	1%	2%	8%	1%	1%	0%	1%	0%	0%	1%	4%	0%	0%	100%
122	RR	50 - 70	54	Y	1900-2000	635	60%	10%	3%	2%	3%	1%	3%	9%	1%	1%	0%	2%	2%	0%	1%	4%	0%	0%	100%
122	RR	50 - 70	56	Y	2000-2100	475	59%	9%	2%	2%	2%	1%	2%	13%	2%	1%	0%	2%	2%	0%	0%	2%	0%	0%	100%
122	RR	50 - 70	55	Y	2100-2200	495	48%	18%	3%	2%	3%	1%	2%	12%	1%	1%	0%	2%	2%	0%	1%	3%	0%	0%	100%
122	RR	50 - 70	56	Y	2200-2300	360	60%	9%	4%	3%	3%	1%	3%	9%	1%	1%	0%	2%	2%	0%	1%	1%	0%	0%	100%
122	RR	50 - 70	58	Y	2300-0000	250	74%	14%	0%	0%	0%	0%	1%	3%	1%	1%	0%	1%	1%	0%	2%	1%	0%	0%	100%
120	RR	70	65	Y	0000-0100	155	68%	15%	1%	0%	0%	1%	2%	5%	1%	1%	0%	0%	0%	1%	4%	3%	0%	0%	100%
120	RR	70	64	Y	0100-0200	80	65%	21%	0%	0%	0%	3%	4%	4%	0%	0%	0%	0%	0%	1%	0%	1%	1%	0%	100%
120	RR	70	64	Y	0200-0300	45	56%	29%	0%	0%	0%	4%	7%	0%	0%	0%	0%	0%	0%	2%	0%	0%	2%	0%	100%
120	RR	70	65	Y	0300-0400	40	45%	25%	0%	0%	0%														

Road ID	Road Type	Speed Limit (km/hr)	Average Speed (km/hr)	Start Emission Estimated by Broad Brush Approach (Y/N)	Hour	Total Vehicles (Veh/hr)	01 - Private Cars	02 - Taxi	03 - Light Goods Vehicles<=2.5t	04 - Light Goods Vehicles 2.5-3.5t	05 - Light Goods Vehicles>3.5t	06 - Medium Goods Vehicles<=3.5t	07 - Medium Goods Vehicles>3.5t	08 - Public Light Buses	09 - Private Light Bus <=3.5t	10 - Private Light Bus >3.5t	11 - Non-franchised Bus<=6.4t	12 - Non-franchised Bus 6.4-15t	13 - Non-franchised Bus 15-24t	14 - Franchised Bus Single Deck	15 - Franchised Bus Double Deck	16 - Motorcycles	17 - Heavy Goods Vehicles>24t	18 - Non-franchised Bus >24t	Total
							PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9	
120	RR	70	57	Y	1300-1400	725	49%	7%	4%	4%	4%	4%	7%	8%	2%	1%	0%	1%	3%	0%	0%	4%	1%	0%	100%
120	RR	70	58	Y	1400-1500	670	53%	9%	3%	3%	3%	4%	8%	7%	2%	1%	0%	1%	2%	0%	0%	2%	1%	0%	100%
120	RR	70	57	Y	1500-1600	715	40%	13%	5%	3%	4%	5%	10%	7%	3%	1%	1%	2%	2%	0%	1%	1%	2%	0%	100%
120	RR	70	57	Y	1600-1700	735	41%	11%	4%	4%	4%	5%	10%	8%	4%	3%	1%	2%	1%	0%	1%	1%	2%	0%	100%
120	RR	70	57	Y	1700-1800	875	53%	8%	4%	4%	5%	2%	4%	7%	2%	1%	1%	2%	1%	0%	1%	3%	1%	0%	100%
120	RR	70	55	Y	1800-1900	915	63%	10%	2%	2%	3%	1%	2%	8%	1%	1%	1%	1%	0%	0%	1%	4%	0%	0%	100%
120	RR	70	57	Y	1900-2000	665	60%	11%	3%	2%	3%	1%	3%	8%	1%	1%	0%	2%	2%	0%	1%	4%	0%	0%	100%
120	RR	70	58	Y	2000-2100	505	59%	10%	2%	2%	2%	1%	2%	12%	2%	1%	0%	2%	2%	0%	0%	2%	0%	0%	100%
120	RR	70	58	Y	2100-2200	520	49%	18%	3%	2%	3%	1%	2%	12%	2%	1%	0%	2%	2%	0%	1%	3%	0%	0%	100%
120	RR	70	60	Y	2200-2300	380	60%	10%	3%	3%	3%	1%	2%	9%	1%	1%	0%	2%	2%	0%	1%	2%	0%	0%	100%
120	RR	70	62	Y	2300-0000	260	74%	14%	0%	0%	0%	0%	1%	3%	1%	1%	0%	1%	1%	0%	2%	1%	0%	0%	100%
118	RR	70	62	Y	0000-0100	155	68%	15%	1%	0%	0%	1%	2%	5%	1%	1%	0%	0%	0%	1%	4%	3%	0%	0%	100%
118	RR	70	64	Y	0100-0200	80	65%	21%	0%	0%	0%	3%	4%	4%	0%	0%	0%	0%	0%	1%	0%	1%	1%	0%	100%
118	RR	70	64	Y	0200-0300	45	56%	29%	0%	0%	0%	4%	7%	0%	0%	0%	0%	0%	0%	0%	2%	0%	2%	0%	100%
118	RR	70	62	Y	0300-0400	40	45%	25%	0%	0%	0%	5%	10%	0%	3%	3%	0%	0%	0%	0%	3%	5%	3%	0%	100%
118	RR	70	62	Y	0400-0500	40	43%	28%	3%	0%	0%	5%	10%	0%	0%	0%	0%	0%	0%	8%	3%	3%	3%	0%	100%
118	RR	70	64	Y	0500-0600	85	45%	14%	4%	2%	2%	6%	11%	6%	1%	0%	0%	0%	0%	1%	5%	1%	2%	0%	100%
118	RR	70	61	Y	0600-0700	375	47%	12%	8%	3%	3%	2%	5%	5%	2%	2%	2%	2%	1%	1%	1%	3%	1%	0%	100%
118	RR	70	57	Y	0700-0800	840	64%	5%	4%	4%	4%	2%	4%	3%	2%	1%	1%	3%	1%	0%	0%	1%	1%	0%	100%
118	RR	70	55	Y	0800-0900	1020	61%	5%	4%	3%	3%	3%	5%	4%	2%	2%	1%	3%	2%	0%	1%	1%	1%	0%	100%
118	RR	70	55	Y	0900-1000	845	49%	11%	4%	3%	2%	5%	9%	6%	2%	2%	0%	2%	1%	0%	0%	0%	4%	0%	100%
118	RR	70	58	Y	1000-1100	695	47%	9%	4%	4%	4%	6%	10%	4%	3%	2%	0%	0%	0%	1%	1%	5%	0%	0%	100%
118	RR	70	59	Y	1100-1200	675	53%	6%	3%	3%	4%	4%	8%	5%	2%	1%	1%	0%	1%	0%	1%	4%	5%	0%	100%
118	RR	70	54	Y	1200-1300	850	47%	9%	3%	3%	4%	4%	7%	7%	3%	2%	0%	1%	1%	0%	1%	5%	4%	0%	100%
118	RR	70	58	Y	1300-1400	750	47%	7%	4%	3%	4%	4%	7%	8%	2%	1%	0%	1%	3%	0%	0%	4%	5%	0%	100%
118	RR	70	58	Y	1400-1500	695	51%	9%	3%	2%	3%	4%	8%	6%	2%	1%	0%	1%	2%	0%	0%	2%	5%	0%	100%
118	RR	70	58	Y	1500-1600	740	39%	13%	5%	3%	4%	5%	9%	7%	3%	1%	1%	2%	1%	0%	1%	1%	5%	0%	100%
118	RR	70	56	Y	1600-1700	760	39%	10%	4%	4%	3%	5%	9%	8%	4%	3%	1%	2%	1%	0%	1%	1%	5%	0%	100%
118	RR	70	54	Y	1700-1800	885	53%	7%	4%	4%	5%	2%	4%	7%	2%	1%	1%	2%	1%	0%	1%	3%	2%	0%	100%
118	RR	70	55	Y	1800-1900	925	62%	10%	2%	2%	3%	1%	2%	7%	1%	1%	1%	1%	0%	0%	1%	4%	2%	0%	100%
118	RR	70	58	Y	1900-2000	665	60%	11%	3%	2%	3%	1%	3%	8%	1%	1%	0%	2%	2%	0%	1%	4%	0%	0%	100%
118	RR	70	59	Y	2000-2100	505	59%	10%	2%	2%	2%	1%	2%	12%	2%	1%	0%	2%	2%	0%	0%	2%	0%	0%	100%
118	RR	70	58	Y	2100-2200	520	49%	18%	3%	2%	3%	1%	2%	12%	2%	1%	0%	2%	2%	0%	1%	3%	0%	0%	100%
118	RR	70	60	Y	2200-2300	380	60%	10%	3%	3%	3%	1%	2%	9%	1%	1%	0%	2%	2%	0%	1%	2%	0%	0%	100%
118	RR	70	63	Y	2300-0000	260	74%	14%	0%	0%	0%	0%	1%	3%	1%	1%	0%	1%	1%	0%	2%	1%	0%	0%	100%
112	RR	70	63	Y	0000-0100	235	68%	18%	0%	0%	0%	0%	1%	3%	0%	0%	0%	0%	0%	0%	5%	2%	0%	0%	100%
112	RR	70	62	Y	0100-0200	120	63%	25%	0%	0%	0%	2%	3%	3%	0%	0%	0%	0%	0%	1%	3%	1%	1%	0%	100%
112	RR	70	63	Y	0200-0300	75	56%	33%	0%	0%	0%	3%	4%	0%	0%	0%	0%	0%	0%	0%	1%	1%	1%	0%	100%
112	RR	70	65	Y	0300-0400	60	47%	32%	0%	0%	0%	3%	7%	0%	2%	2%	0%	0%	0%	2%	5%	2%	2%	0%	100%
112	RR	70	65	Y	0400-0500	60	47%	32%	2%	0%	0%	3%	7%	0%	0%	0%	0%	0%	0%	7%	2%	2%	2%	0%	100%
112	RR	70	62	Y	0500-0600	125	46%	17%	2%	2%	2%	4%	7%	5%	2%	2%	0%	0%	0%	1%	8%	2%	2%	0%	100%
112	RR	70	59	Y	0600-0700	595	56%	12%	6%	2%	2%	1%	3%	5%	2%	2%	2%	1%	1%	0%	2%	2%	1%	0%	100%
112	RR	70	53	Y	0700-0800	1230	65%	10%	3%	3%	3%	1%	3%	3%	2%	1%	1%	2%	2%	0%	1%	1%	0%	0%	100%
112	RR	70	48	Y	0800-0900	1385	62%	8%	3%	3%	2%	2%	3%	5%	2%	1%	1%	3%	2%	0%	1%	1%	1%	0%	100%
112	RR	70	52	Y	0900-1000	1155	51%	14%	3%	2%	2%	4%	7%	6%	1%	1%	0%	2%	1%	0%	1%	0%	3%	0%	100%
112	RR	70	55	Y	1000-1100	945	53%	10%	4%	3%	3%	4%	8%	4%	2%	2%	0%	1%	1%	0%	1%	1%	4%	0%	100%
112	RR	70	54	Y	1100-1200	945	56%	7%	3%	3%	3%	3%	6%	5%	1%	1%	1%	1%	0%	1%	4%	4%	0%	0%	100%
112	RR	70	56	Y	1200-1300	1080	49%	10%	4%	3%	3%	3%	6%	7%	2%	2%	0%	1%	1%	0%	1%	4%	3%	0%	100%
112	RR	70	53	Y	1300-1400	1105	51%	8%	4%	3%	3%	3%	5%	7%	2%	1%	1%	3%	3%	0%	1%	3%	3%	0%	100%
112	RR	70	55	Y	1400-1500	990	53%	10%	3%	2%	2%	3%	6%	6%	2%	1%	1%	3%	2%	0%	1%	2%	4%	0%	100%
112	RR	70	55	Y	1500-1600	1020	46%	11%	4%	3%	3%	4%	7%	7%	2%	2%	1%	2%	2%	1%	1%	1%	4%	0%	100%
112	RR	70	51	Y	1600-1700	1150	48%	9%	4%	3%	3%	4%	6%	7%	2%	2%	1%	2%	2%	0%	1%	2%	3%	0%	100%
112	RR	70	55	Y	1700-1800	1235	55%	10%	5%	4%	3%	2%	3%	6%	2%	1%	1%	2%	2%	0%	1%	3%	1%	0%	100%
112	RR	70	52	Y	1800-1900	1280	63%	11%	3%	2%	2%	1%	2%	7%	1%	1%	0%	1%	1%	0%	1%	4%	1%	0%	100%
112	RR	70	56	Y	1900-2000	970	60%	13%	2%	2%	2%	1%	2%	7%	1%	1%	0%	2%	1%	0%	1%	4%	0%	0%	100%
112	RR	70	58	Y	2000-2100	740	62%	11%	2%	2%	1%	1%	1%	10%	1%	1%	0%	2%	2%	0%	1%	2%	0%	0%	100%
112	RR	70	56	Y	2100-2200	740	53%	19%	2%	2%	2%	1%	1%	10%	1%	1%	0%	2%	2%	0%	1%	3%	0%	0%	100%
112	RR	70	59	Y	2200-2300	560	63%	13%	2%	2%	2%	1%	2%	8%	1%	1%	0%	2%	2%	0%	1%	2%	0%	0%	100%
112	RR	70	60	Y	2300-0000	385	73%	17%	0%	0%	0%	0%	1%	3%	1%	1%	0%	1%	1%	0%	2%	1%	0%	0%	100%
110	PD	70	60	N	0000-0100	210	70%	19%	1%	1%	1%	0%	0%	4%	0%	0%	0%	0%	0%	0%	1%	2%	0%	0%	100%
110	PD	70	62	N	0100-0200	110	63%	25%	1%	1%	1%	1%	1%	3%	0%	0%	0%	0%	0%	1%	1%	1%	1%	0%	100%
110	PD	70	63	N	0200-0300	70	59%	29%	1%	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	1%	1%	1%	0%	100%
110	PD	70	61	N	0300-0400	60	52%	25%	2%	2%	0%	3%	3%	2%	0%	0%	0%	0%	0%	2%	5%	3%	2%	0%	100%
110	PD	70	62	N	0400-0500	50	38%	34%	2%	2%	2%	4%	4%	2%	0%	0%	0%	0%	0%	8%	2%	2%	2%	0%	100%
110	PD	70	62	N	0500-0600	170	59%	23%	2%	2%	1%	2%	2%	3%	0%	1%	0%	0%	0%	4%	1%	1%	1%	1%	1

Road ID	Road Type	Speed Limit (km/hr)	Average Speed (km/hr)	Start Emission Estimated by Broad Brush Approach (Y/N)	Hour	Total Vehicles (Veh/hr)	01 - Private Cars	02 - Taxi	03 - Light Goods Vehicles <=2.5t	04 - Light Goods Vehicles 2.5-3.5t	05 - Light Goods Vehicles >3.5t	06 - Medium Goods Vehicles <=3.5t	07 - Medium Goods Vehicles 3.5-5.24t	08 - Public Light Buses	09 - Private Light Bus <=3.5t	10 - Private Light Bus >3.5t	11 - Non-franchised Bus <=6.4t	12 - Non-franchised Bus 6.4-15t	13 - Non-franchised Bus 15-24t	14 - Franchised Bus Single Deck	15 - Franchised Bus Double Deck	16 - Motorcycles	17 - Heavy Goods Vehicles >24t	18 - Non-franchised Bus >24t	Total
							PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9	
110	PD	70	54	N	1500-1600	920	57%	6%	3%	5%	3%	4%	5%	6%	0%	1%	0%	2%	1%	0%	0%	2%	3%	0%	100%
110	PD	70	56	N	1600-1700	1060	62%	6%	4%	5%	2%	2%	2%	5%	0%	0%	0%	2%	1%	0%	1%	4%	3%	0%	100%
110	PD	70	57	N	1700-1800	990	66%	10%	3%	3%	1%	2%	2%	5%	0%	0%	0%	2%	1%	0%	1%	3%	1%	0%	100%
110	PD	70	58	N	1800-1900	630	66%	6%	3%	3%	1%	2%	0%	10%	0%	0%	0%	2%	1%	0%	1%	3%	2%	0%	100%
110	PD	70	60	N	1900-2000	460	66%	9%	2%	3%	1%	0%	0%	10%	0%	0%	0%	3%	1%	0%	1%	4%	0%	0%	100%
110	PD	70	58	N	2000-2100	545	65%	13%	2%	3%	0%	1%	0%	8%	0%	0%	0%	2%	2%	0%	1%	2%	1%	0%	100%
110	PD	70	60	N	2100-2200	390	64%	11%	2%	2%	1%	1%	0%	11%	0%	0%	0%	2%	2%	0%	1%	2%	0%	0%	100%
110	PD	70	60	N	2200-2300	490	71%	9%	0%	2%	0%	1%	2%	8%	0%	0%	0%	2%	1%	0%	1%	2%	0%	0%	100%
110	PD	70	62	N	2300-0000	345	75%	17%	0%	0%	0%	1%	1%	3%	0%	0%	0%	1%	0%	0%	0%	1%	0%	0%	100%
108	PD	70	64	N	0000-0100	210	69%	19%	1%	1%	1%	0%	0%	4%	0%	0%	0%	0%	0%	0%	1%	2%	0%	0%	100%
108	PD	70	62	N	0100-0200	110	63%	25%	1%	1%	1%	1%	1%	3%	0%	0%	0%	0%	1%	1%	1%	1%	1%	0%	100%
108	PD	70	63	N	0200-0300	70	59%	29%	1%	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	1%	1%	1%	0%	100%
108	PD	70	64	N	0300-0400	60	52%	25%	2%	2%	0%	3%	3%	2%	0%	0%	0%	0%	0%	2%	5%	3%	2%	0%	100%
108	PD	70	66	N	0400-0500	50	38%	34%	2%	2%	2%	4%	4%	2%	0%	0%	0%	0%	0%	0%	8%	2%	2%	0%	100%
108	PD	70	61	N	0500-0600	170	59%	23%	2%	2%	1%	2%	2%	3%	0%	1%	0%	0%	0%	0%	4%	1%	1%	1%	100%
108	PD	70	53	N	0600-0700	1100	64%	9%	3%	7%	2%	2%	2%	4%	0%	1%	0%	3%	0%	0%	1%	2%	1%	0%	100%
108	PD	70	52	N	0700-0800	1180	67%	11%	2%	4%	1%	2%	2%	3%	0%	0%	0%	1%	2%	0%	1%	2%	0%	0%	100%
108	PD	70	52	N	0800-0900	1140	59%	14%	3%	4%	2%	4%	3%	5%	0%	0%	0%	2%	1%	0%	1%	1%	1%	0%	100%
108	PD	70	55	N	0900-1000	1080	58%	11%	5%	3%	3%	4%	4%	4%	0%	0%	0%	1%	1%	0%	0%	2%	3%	0%	100%
108	PD	70	55	N	1000-1100	955	60%	8%	4%	4%	3%	4%	4%	3%	0%	0%	0%	2%	1%	0%	0%	2%	3%	0%	100%
108	PD	70	54	N	1100-1200	955	60%	7%	6%	3%	3%	3%	4%	5%	0%	0%	0%	1%	1%	0%	0%	2%	3%	0%	100%
108	PD	70	57	N	1200-1300	770	57%	9%	4%	5%	3%	5%	3%	6%	0%	0%	0%	2%	1%	0%	1%	2%	4%	0%	100%
108	PD	70	56	N	1300-1400	940	58%	8%	4%	5%	4%	4%	4%	5%	0%	0%	0%	2%	0%	0%	0%	1%	4%	0%	100%
108	PD	70	55	N	1400-1500	925	58%	9%	4%	6%	2%	3%	4%	5%	0%	0%	0%	2%	1%	0%	0%	1%	4%	0%	100%
108	PD	70	55	N	1500-1600	955	57%	6%	3%	6%	3%	4%	5%	6%	0%	1%	0%	2%	1%	0%	0%	2%	3%	0%	100%
108	PD	70	51	N	1600-1700	1100	61%	6%	4%	5%	2%	2%	2%	5%	0%	0%	0%	2%	1%	0%	1%	3%	3%	0%	100%
108	PD	70	55	N	1700-1800	1025	66%	10%	3%	3%	1%	2%	2%	5%	0%	0%	0%	1%	1%	0%	1%	2%	1%	0%	100%
108	PD	70	58	N	1800-1900	670	65%	7%	3%	4%	1%	2%	0%	9%	0%	0%	0%	2%	1%	0%	1%	3%	2%	0%	100%
108	PD	70	59	N	1900-2000	470	66%	9%	2%	3%	1%	0%	0%	9%	0%	0%	0%	3%	1%	0%	1%	4%	0%	0%	100%
108	PD	70	61	N	2000-2100	555	65%	13%	2%	3%	0%	1%	0%	8%	0%	0%	0%	2%	2%	0%	1%	2%	1%	0%	100%
108	PD	70	60	N	2100-2200	400	64%	12%	2%	3%	1%	1%	0%	11%	0%	0%	0%	2%	2%	0%	1%	2%	0%	0%	100%
108	PD	70	60	N	2200-2300	500	72%	9%	0%	3%	0%	1%	2%	7%	0%	0%	0%	2%	1%	0%	1%	2%	0%	0%	100%
108	PD	70	62	N	2300-0000	350	75%	17%	0%	0%	0%	1%	1%	3%	0%	0%	0%	1%	0%	0%	0%	1%	0%	0%	100%
126	LD	50	37	Y	0000-0100	60	40%	38%	0%	0%	0%	2%	0%	7%	0%	0%	0%	0%	0%	0%	12%	2%	0%	0%	100%
126	LD	50	39	Y	0100-0200	35	37%	49%	0%	0%	0%	0%	3%	3%	0%	0%	0%	0%	0%	0%	9%	0%	0%	0%	100%
126	LD	50	40	Y	0200-0300	20	35%	55%	0%	0%	0%	5%	0%	0%	0%	0%	0%	0%	0%	0%	5%	0%	0%	0%	100%
126	LD	50	41	Y	0300-0400	20	45%	45%	0%	0%	0%	5%	0%	0%	0%	0%	0%	0%	0%	0%	5%	0%	0%	0%	100%
126	LD	50	40	Y	0400-0500	35	60%	29%	0%	0%	0%	3%	0%	3%	0%	0%	0%	0%	0%	0%	6%	0%	0%	0%	100%
126	LD	50	40	Y	0500-0600	60	57%	18%	2%	2%	2%	5%	0%	5%	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%	100%
126	LD	50	34	Y	0600-0700	250	56%	6%	7%	6%	6%	6%	0%	5%	0%	0%	0%	1%	0%	0%	5%	2%	0%	0%	100%
126	LD	50	32	Y	0700-0800	310	52%	10%	4%	3%	0%	7%	2%	6%	0%	0%	0%	1%	7%	0%	4%	2%	1%	0%	100%
126	LD	50	33	Y	0800-0900	235	30%	18%	6%	3%	5%	20%	3%	7%	0%	0%	0%	0%	4%	0%	3%	1%	0%	0%	100%
126	LD	50	35	Y	0900-1000	210	33%	22%	3%	5%	2%	14%	3%	9%	0%	0%	0%	0%	3%	0%	3%	0%	1%	0%	100%
126	LD	50	35	Y	1000-1100	190	37%	15%	7%	5%	1%	11%	5%	11%	0%	0%	0%	1%	2%	1%	3%	2%	1%	1%	100%
126	LD	50	35	Y	1100-1200	190	18%	29%	11%	5%	4%	8%	2%	7%	0%	0%	0%	2%	4%	0%	5%	5%	1%	0%	100%
126	LD	50	32	Y	1200-1300	240	34%	20%	8%	5%	1%	8%	3%	9%	0%	0%	0%	1%	3%	0%	4%	1%	3%	0%	100%
126	LD	50	33	Y	1300-1400	240	29%	27%	4%	7%	9%	13%	2%	5%	0%	0%	0%	1%	0%	0%	3%	0%	0%	0%	100%
126	LD	50	36	Y	1400-1500	160	28%	15%	6%	8%	8%	9%	2%	12%	0%	1%	0%	1%	2%	1%	6%	1%	2%	0%	100%
126	LD	50	36	Y	1500-1600	150	33%	15%	3%	7%	3%	4%	2%	12%	0%	1%	0%	5%	12%	0%	4%	1%	1%	0%	100%
126	LD	50	38	Y	1600-1700	175	38%	25%	2%	4%	3%	6%	1%	9%	0%	1%	0%	1%	3%	0%	6%	2%	1%	0%	100%
126	LD	50	34	Y	1700-1800	180	36%	35%	2%	2%	2%	4%	1%	11%	0%	0%	0%	1%	2%	0%	4%	2%	0%	0%	100%
126	LD	50	36	Y	1800-1900	155	23%	50%	1%	1%	0%	6%	1%	8%	0%	0%	0%	0%	1%	0%	6%	4%	0%	0%	100%
126	LD	50	36	Y	1900-2000	110	19%	55%	0%	0%	1%	5%	0%	15%	0%	0%	0%	1%	0%	0%	4%	1%	0%	0%	100%
126	LD	50	38	Y	2000-2100	80	10%	46%	0%	8%	5%	8%	1%	13%	0%	0%	0%	0%	4%	0%	5%	1%	0%	0%	100%
126	LD	50	36	Y	2100-2200	105	7%	75%	1%	0%	0%	0%	0%	14%	0%	0%	0%	0%	0%	3%	0%	0%	0%	0%	100%
126	LD	50	38	Y	2200-2300	70	11%	39%	4%	4%	3%	6%	1%	14%	0%	0%	0%	1%	4%	0%	9%	3%	0%	0%	100%
126	LD	50	37	Y	2300-0000	65	25%	51%	0%	0%	0%	3%	2%	8%	0%	0%	0%	0%	2%	0%	9%	2%	0%	0%	100%
134	LD	50	35	Y	0000-0100	35	49%	29%	0%	0%	0%	3%	0%	9%	0%	0%	0%	0%	0%	9%	3%	0%	0%	0%	100%
134	LD	50	35	Y	0100-0200	25	40%	36%	4%	4%	4%	4%	0%	4%	0%	0%	0%	0%	0%	4%	0%	0%	0%	0%	100%
134	LD	50	37	Y	0200-0300	15	40%	40%	0%	0%	0%	7%	0%	7%	0%	0%	0%	0%	0%	7%	0%	0%	0%	0%	100%
134	LD	50	40	Y	0300-0400	10	40%	40%	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%	100%
134	LD	50	38	Y	0400-0500	15	40%	27%	0%	13%	7%	0%	0%	7%	0%	0%	0%	7%	0%	0%	0%	0%	0%	0%	100%
134	LD	50	37	Y	0500-0600	45	51%	11%	2%	13%	9%	2%	0%	4%	0%	0%	0%	0%	0%	4%	2%	0%	0%	0%	100%
134	LD	50	34	Y	0600-0700	135	38%	20%	4%	7%	5%	9%	1%	7%	0%	0%	0%	3%	2%	0%	2%	3%	0%	0%	100%
134	LD	50	33	Y	0700-0800	220	36%	10%	4%	5%	3%	15%	4%	7%	0%	0%	0%	1%	10%	0%	2%	0%	1%	0%	100%
134																									

Road ID	Road Type	Speed Limit (km/hr)	Average Speed (km/hr)	Start Emission Estimated by Broad Brush Approach (Y/N)	Hour	Total Vehicles (Veh/hr)	01 - Private Cars	02 - Taxi	03 - Light Goods Vehicles <=2.5t	04 - Light Goods Vehicles 2.5-3.5t	05 - Light Goods Vehicles >3.5t	06 - Medium Goods Vehicles <=15t	07 - Medium Goods Vehicles 15-24t	08 - Public Light Buses	09 - Private Light Bus <=3.5t	10 - Private Light Bus >3.5t	11 - Non-franchised Bus <=6.4t	12 - Non-franchised Bus 6.4-15t	13 - Non-franchised Bus 15-24t	14 - Franchised Bus Single Deck	15 - Franchised Bus Double Deck	16 - Motorcycles	17 - Heavy Goods Vehicles >24t	18 - Non-franchised Bus >24t	Total
							PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9	
134	LD	50	31	Y	1700-1800	215	40%	18%	8%	6%	8%	4%	1%	7%	0%	0%	0%	1%	4%	0%	2%	2%	0%	0%	100%
134	LD	50	34	Y	1800-1900	110	31%	30%	3%	5%	2%	8%	2%	9%	0%	0%	0%	2%	2%	0%	5%	3%	0%	0%	100%
134	LD	50	35	Y	1900-2000	65	20%	32%	3%	6%	8%	6%	0%	18%	0%	0%	0%	2%	3%	0%	2%	0%	0%	0%	100%
134	LD	50	35	Y	2000-2100	50	14%	20%	2%	8%	4%	12%	2%	18%	0%	0%	0%	0%	18%	0%	0%	2%	0%	0%	100%
134	LD	50	36	Y	2100-2200	35	17%	40%	0%	6%	3%	6%	0%	29%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
134	LD	50	36	Y	2200-2300	45	16%	27%	4%	4%	9%	0%	2%	18%	0%	0%	0%	2%	9%	0%	4%	4%	0%	0%	100%
134	LD	50	35	Y	2300-0000	30	27%	30%	0%	3%	0%	10%	3%	13%	0%	0%	0%	0%	3%	0%	7%	3%	0%	0%	100%
138	LD	50	37	Y	0000-0100	45	51%	27%	0%	0%	2%	2%	0%	7%	0%	0%	0%	0%	2%	0%	7%	2%	0%	0%	100%
138	LD	50	37	Y	0100-0200	25	44%	36%	0%	0%	8%	4%	0%	4%	0%	0%	0%	0%	0%	0%	4%	0%	0%	0%	100%
138	LD	50	37	Y	0200-0300	20	50%	30%	0%	0%	5%	5%	0%	5%	0%	0%	0%	0%	0%	0%	5%	0%	0%	0%	100%
138	LD	50	36	Y	0300-0400	10	40%	40%	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	100%
138	LD	50	35	Y	0400-0500	20	55%	30%	0%	5%	0%	5%	0%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
138	LD	50	36	Y	0500-0600	50	48%	12%	2%	2%	4%	10%	0%	4%	0%	0%	0%	4%	4%	0%	4%	4%	2%	0%	100%
138	LD	50	33	Y	0600-0700	180	37%	17%	4%	6%	4%	15%	1%	5%	0%	0%	0%	2%	4%	0%	2%	3%	0%	0%	100%
138	LD	50	31	Y	0700-0800	240	38%	13%	3%	1%	1%	19%	5%	6%	0%	0%	0%	0%	10%	0%	2%	1%	0%	0%	100%
138	LD	50	33	Y	0800-0900	240	22%	11%	5%	3%	15%	23%	1%	8%	0%	0%	0%	0%	8%	0%	2%	0%	1%	0%	100%
138	LD	50	32	Y	0900-1000	215	23%	10%	5%	4%	15%	26%	5%	5%	0%	0%	0%	0%	4%	0%	1%	1%	2%	0%	100%
138	LD	50	32	Y	1000-1100	190	29%	12%	7%	9%	5%	13%	6%	9%	0%	0%	0%	1%	4%	1%	1%	1%	1%	0%	100%
138	LD	50	33	Y	1100-1200	195	22%	16%	10%	4%	16%	15%	4%	5%	0%	0%	1%	2%	1%	0%	2%	3%	1%	0%	100%
138	LD	50	32	Y	1200-1300	205	19%	13%	4%	4%	25%	13%	3%	7%	0%	0%	0%	0%	5%	0%	0%	0%	3%	0%	100%
138	LD	50	33	Y	1300-1400	180	27%	20%	7%	5%	16%	8%	5%	6%	0%	1%	1%	2%	1%	0%	2%	2%	0%	0%	100%
138	LD	50	33	Y	1400-1500	170	26%	12%	8%	8%	11%	14%	5%	9%	0%	1%	1%	1%	2%	1%	2%	1%	1%	0%	100%
138	LD	50	34	Y	1500-1600	150	33%	5%	7%	7%	8%	7%	4%	9%	0%	1%	0%	3%	13%	1%	1%	1%	1%	0%	100%
138	LD	50	32	Y	1600-1700	215	45%	12%	4%	1%	2%	6%	1%	6%	0%	0%	0%	1%	14%	0%	2%	5%	0%	0%	100%
138	LD	50	33	Y	1700-1800	180	47%	17%	7%	2%	7%	3%	1%	8%	0%	0%	0%	1%	3%	0%	2%	2%	0%	0%	100%
138	LD	50	34	Y	1800-1900	105	34%	32%	0%	1%	2%	9%	2%	10%	0%	0%	0%	1%	2%	0%	5%	3%	0%	0%	100%
138	LD	50	35	Y	1900-2000	70	24%	31%	1%	3%	10%	6%	0%	17%	0%	0%	0%	1%	3%	0%	1%	1%	0%	0%	100%
138	LD	50	38	Y	2000-2100	55	20%	20%	2%	7%	2%	13%	2%	16%	0%	0%	0%	0%	16%	0%	0%	2%	0%	0%	100%
138	LD	50	36	Y	2100-2200	45	29%	42%	0%	0%	2%	4%	0%	22%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
138	LD	50	36	Y	2200-2300	50	18%	28%	2%	4%	12%	0%	2%	16%	0%	0%	0%	2%	8%	0%	4%	4%	0%	0%	100%
138	LD	50	36	Y	2300-0000	35	34%	31%	0%	0%	0%	9%	3%	11%	0%	0%	0%	0%	3%	0%	6%	3%	0%	0%	100%
140	LD	50	34	Y	0000-0100	40	50%	28%	0%	0%	0%	3%	0%	8%	0%	0%	0%	0%	0%	0%	10%	3%	0%	0%	100%
140	LD	50	35	Y	0100-0200	25	52%	32%	0%	0%	0%	4%	0%	4%	0%	0%	0%	0%	0%	0%	8%	0%	0%	0%	100%
140	LD	50	37	Y	0200-0300	15	47%	33%	0%	0%	0%	7%	0%	7%	0%	0%	0%	0%	0%	7%	0%	0%	0%	0%	100%
140	LD	50	38	Y	0300-0400	10	40%	40%	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	100%
140	LD	50	37	Y	0400-0500	15	40%	33%	0%	7%	0%	7%	0%	7%	0%	0%	0%	0%	0%	7%	0%	0%	0%	0%	100%
140	LD	50	36	Y	0500-0600	45	56%	11%	2%	2%	4%	9%	0%	4%	0%	0%	0%	0%	4%	0%	7%	0%	0%	0%	100%
140	LD	50	33	Y	0600-0700	165	35%	16%	4%	6%	4%	15%	1%	5%	0%	0%	0%	2%	4%	0%	4%	4%	0%	0%	100%
140	LD	50	32	Y	0700-0800	230	38%	12%	3%	1%	1%	18%	4%	6%	0%	0%	0%	0%	10%	0%	4%	1%	0%	0%	100%
140	LD	50	32	Y	0800-0900	220	22%	11%	5%	3%	15%	23%	1%	7%	0%	0%	0%	0%	8%	0%	3%	0%	1%	0%	100%
140	LD	50	33	Y	0900-1000	195	22%	10%	5%	4%	15%	26%	5%	5%	0%	1%	0%	0%	4%	0%	2%	2%	2%	0%	100%
140	LD	50	33	Y	1000-1100	175	30%	12%	7%	9%	5%	13%	6%	9%	0%	0%	0%	1%	4%	1%	1%	1%	1%	0%	100%
140	LD	50	32	Y	1100-1200	180	22%	16%	9%	3%	16%	15%	3%	5%	0%	0%	1%	2%	1%	0%	2%	4%	1%	0%	100%
140	LD	50	33	Y	1200-1300	185	18%	14%	4%	4%	25%	14%	3%	8%	0%	1%	0%	1%	5%	0%	1%	1%	3%	0%	100%
140	LD	50	34	Y	1300-1400	165	26%	20%	7%	5%	16%	8%	5%	5%	0%	1%	1%	2%	1%	0%	1%	2%	0%	0%	100%
140	LD	50	33	Y	1400-1500	160	27%	11%	8%	8%	9%	14%	4%	9%	0%	1%	1%	1%	3%	1%	3%	2%	1%	0%	100%
140	LD	50	35	Y	1500-1600	135	31%	5%	7%	7%	8%	7%	4%	10%	0%	1%	0%	3%	13%	1%	1%	2%	1%	0%	100%
140	LD	50	30	Y	1600-1700	210	43%	11%	4%	1%	2%	6%	1%	5%	0%	0%	0%	1%	13%	0%	5%	6%	0%	0%	100%
140	LD	50	32	Y	1700-1800	165	45%	17%	7%	2%	7%	3%	1%	8%	0%	0%	0%	1%	3%	0%	4%	2%	0%	0%	100%
140	LD	50	35	Y	1800-1900	100	33%	31%	0%	1%	2%	8%	2%	9%	0%	0%	0%	1%	2%	0%	7%	4%	0%	0%	100%
140	LD	50	35	Y	1900-2000	65	23%	31%	2%	3%	9%	6%	0%	17%	0%	0%	0%	2%	3%	0%	3%	2%	0%	0%	100%
140	LD	50	37	Y	2000-2100	45	9%	22%	2%	9%	2%	13%	2%	18%	0%	0%	0%	0%	18%	0%	2%	2%	0%	0%	100%
140	LD	50	37	Y	2100-2200	35	17%	49%	0%	0%	3%	6%	0%	26%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
140	LD	50	36	Y	2200-2300	45	13%	29%	2%	4%	11%	0%	2%	16%	0%	0%	0%	2%	9%	0%	7%	4%	0%	0%	100%
140	LD	50	37	Y	2300-0000	35	34%	29%	0%	0%	0%	9%	3%	11%	0%	0%	0%	0%	3%	0%	9%	3%	0%	0%	100%
156	LD	50	38	Y	0000-0100	10	80%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
156	LD	50	37	Y	0100-0200	5	80%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
156	LD	50	37	Y	0200-0300	5	80%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
156	LD	50	34	Y	0300-0400	10	90%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
156	LD	50	36	Y	0400-0500	15	87%	13%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
156	LD	50	35	Y	0500-0600	35	54%	9%	0%	0%	23%	9%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
156	LD	50	33	Y	0600-0700	145	40%	10%	1%	7%	6%	4%	0%	0%	0%	0%	0%	16%	10%	0%	3%	3%	1%	0%	100%
156	LD	50	30	Y	0700-0800	265	54%	16%	2%	3%	2%	6%	1%	0%	0%	0%	0%	5%	6%	0%	2%	2%	2%	0%	100%
156	LD	50	29	Y	0800-0900	275	38%	29%	3%	7%	4%	4%	1%	0%	0%	0%	0%	4%	4%	1%	1%	1%	3%	0%	100%
156	LD	50	32	Y	0900-1000	150	41%	16%	6%	8%	3%	13%	3%	0%	0%	0%	0%</								

Road ID	Road Type	Speed Limit (km/hr)	Average Speed (km/hr)	Start Emission Estimated by Broad Brush Approach (Y/N)	Hour	Total Vehicles (Veh/hr)	01 - Private Cars	02 - Taxi	03 - Light Goods Vehicles <=2.5t	04 - Light Goods Vehicles 2.5-3.5t	05 - Light Goods Vehicles >3.5t	06 - Medium Goods Vehicles <=3.5t	07 - Medium Goods Vehicles 3.5-5.24t	08 - Public Light Buses	09 - Private Light Bus <=3.5t	10 - Private Light Bus >3.5t	11 - Non-franchised Bus <=6.4t	12 - Non-franchised Bus 6.4-15t	13 - Non-franchised Bus 15-24t	14 - Franchised Bus Single Deck	15 - Franchised Bus Double Deck	16 - Motorcycles	17 - Heavy Goods Vehicles >24t	18 - Non-franchised Bus >24t	Total
							PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9	
156	LD	50	37	Y	1900-2000	40	40%	25%	3%	8%	0%	3%	0%	0%	0%	0%	0%	13%	0%	0%	10%	0%	0%	0%	100%
156	LD	50	37	Y	2000-2100	45	49%	16%	2%	4%	9%	4%	0%	0%	0%	0%	0%	4%	4%	0%	7%	0%	0%	0%	100%
156	LD	50	37	Y	2100-2200	35	34%	26%	3%	9%	11%	6%	0%	0%	0%	0%	0%	9%	0%	0%	0%	3%	0%	0%	100%
156	LD	50	37	Y	2200-2300	20	50%	15%	0%	10%	20%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
156	LD	50	37	Y	2300-0000	10	80%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
155	LD	50	37	Y	0000-0100	15	60%	40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
155	LD	50	37	Y	0100-0200	15	80%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
155	LD	50	37	Y	0200-0300	10	80%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
155	LD	50	39	Y	0300-0400	10	80%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
155	LD	50	37	Y	0400-0500	20	45%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	30%	10%	5%	0%	0%	0%	0%	100%
155	LD	50	37	Y	0500-0600	45	31%	13%	7%	0%	0%	0%	0%	0%	0%	0%	0%	29%	11%	2%	0%	4%	2%	0%	100%
155	LD	50	35	Y	0600-0700	85	32%	14%	0%	7%	5%	9%	0%	0%	0%	0%	0%	14%	14%	0%	5%	0%	0%	0%	100%
155	LD	50	34	Y	0700-0800	150	25%	25%	1%	8%	5%	17%	4%	0%	0%	0%	0%	4%	6%	0%	3%	1%	1%	0%	100%
155	LD	50	31	Y	0800-0900	190	21%	33%	4%	9%	6%	10%	2%	0%	0%	0%	0%	5%	5%	1%	1%	0%	3%	0%	100%
155	LD	50	33	Y	0900-1000	145	29%	23%	3%	9%	5%	12%	4%	0%	0%	0%	0%	4%	3%	0%	3%	0%	4%	0%	100%
155	LD	50	34	Y	1000-1100	130	36%	12%	6%	12%	4%	16%	2%	0%	0%	0%	0%	2%	3%	1%	2%	2%	2%	0%	100%
155	LD	50	33	Y	1100-1200	170	52%	10%	5%	5%	2%	8%	1%	0%	0%	0%	0%	2%	4%	0%	2%	5%	3%	0%	100%
155	LD	50	33	Y	1200-1300	135	30%	21%	4%	13%	4%	9%	4%	0%	0%	0%	0%	4%	2%	0%	3%	1%	3%	0%	100%
155	LD	50	35	Y	1300-1400	135	30%	14%	7%	16%	3%	16%	2%	0%	0%	0%	0%	4%	2%	1%	2%	0%	3%	0%	100%
155	LD	50	34	Y	1400-1500	125	29%	10%	5%	11%	5%	18%	6%	0%	0%	0%	0%	5%	4%	0%	3%	2%	2%	0%	100%
155	LD	50	34	Y	1500-1600	135	41%	13%	7%	7%	4%	10%	3%	0%	0%	0%	0%	1%	6%	1%	1%	4%	1%	0%	100%
155	LD	50	31	Y	1600-1700	200	61%	8%	2%	5%	3%	4%	1%	0%	0%	0%	0%	9%	6%	0%	3%	0%	0%	0%	100%
155	LD	50	31	Y	1700-1800	185	62%	11%	1%	4%	0%	1%	0%	1%	0%	0%	0%	7%	9%	0%	2%	4%	0%	0%	100%
155	LD	50	35	Y	1800-1900	100	44%	18%	1%	8%	7%	2%	0%	0%	0%	0%	0%	9%	2%	1%	4%	4%	0%	0%	100%
155	LD	50	35	Y	1900-2000	50	26%	28%	0%	10%	12%	2%	0%	0%	0%	0%	0%	10%	0%	0%	8%	4%	0%	0%	100%
155	LD	50	38	Y	2000-2100	40	48%	15%	5%	3%	8%	5%	0%	0%	0%	0%	0%	5%	3%	0%	8%	3%	0%	0%	100%
155	LD	50	35	Y	2100-2200	40	53%	28%	0%	0%	10%	3%	0%	0%	0%	0%	0%	8%	0%	0%	0%	0%	0%	0%	100%
155	LD	50	36	Y	2200-2300	30	63%	23%	10%	0%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
155	LD	50	36	Y	2300-0000	20	75%	25%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
139	LD	50	35	Y	0000-0100	40	40%	13%	3%	8%	15%	5%	0%	10%	0%	0%	0%	0%	5%	0%	0%	3%	0%	0%	100%
139	LD	50	36	Y	0100-0200	25	32%	12%	4%	8%	12%	8%	0%	12%	0%	0%	0%	0%	8%	0%	0%	4%	0%	0%	100%
139	LD	50	37	Y	0200-0300	15	40%	13%	0%	7%	20%	13%	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
139	LD	50	40	Y	0300-0400	10	40%	10%	10%	10%	0%	20%	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
139	LD	50	35	Y	0400-0500	25	40%	20%	4%	4%	0%	20%	0%	4%	0%	0%	0%	0%	8%	0%	0%	0%	0%	0%	100%
139	LD	50	34	Y	0500-0600	65	32%	12%	8%	2%	0%	22%	0%	2%	0%	0%	0%	6%	11%	0%	0%	5%	2%	0%	100%
139	LD	50	34	Y	0600-0700	140	37%	12%	4%	4%	3%	22%	1%	7%	0%	0%	0%	1%	6%	0%	0%	1%	0%	0%	100%
139	LD	50	34	Y	0700-0800	175	35%	19%	3%	2%	2%	21%	4%	6%	0%	1%	0%	0%	3%	0%	0%	4%	0%	0%	100%
139	LD	50	34	Y	0800-0900	205	35%	19%	5%	3%	6%	18%	2%	8%	0%	0%	0%	1%	0%	0%	0%	0%	1%	0%	100%
139	LD	50	35	Y	0900-1000	115	19%	15%	4%	7%	15%	24%	4%	6%	0%	1%	0%	0%	2%	0%	0%	3%	0%	0%	100%
139	LD	50	34	Y	1000-1100	125	16%	14%	10%	10%	12%	16%	3%	10%	0%	0%	0%	1%	4%	0%	0%	2%	1%	0%	100%
139	LD	50	33	Y	1100-1200	145	23%	12%	9%	4%	19%	15%	3%	9%	0%	1%	0%	1%	0%	0%	3%	1%	0%	0%	100%
139	LD	50	33	Y	1200-1300	140	17%	10%	8%	6%	24%	17%	2%	12%	0%	0%	1%	0%	1%	0%	0%	2%	1%	0%	100%
139	LD	50	35	Y	1300-1400	135	21%	6%	10%	3%	24%	16%	5%	9%	0%	1%	1%	1%	1%	0%	0%	2%	0%	0%	100%
139	LD	50	33	Y	1400-1500	155	23%	12%	6%	10%	14%	17%	5%	7%	0%	1%	0%	0%	5%	0%	0%	1%	0%	0%	100%
139	LD	50	34	Y	1500-1600	120	23%	9%	8%	7%	9%	15%	4%	12%	0%	1%	0%	1%	9%	0%	0%	2%	0%	0%	100%
139	LD	50	36	Y	1600-1700	105	30%	8%	7%	5%	7%	17%	1%	9%	0%	1%	1%	0%	13%	0%	0%	2%	0%	0%	100%
139	LD	50	36	Y	1700-1800	110	40%	7%	8%	6%	5%	12%	3%	11%	0%	0%	0%	4%	2%	0%	0%	3%	0%	0%	100%
139	LD	50	36	Y	1800-1900	60	33%	17%	2%	2%	10%	12%	2%	17%	0%	0%	0%	0%	3%	0%	0%	3%	0%	0%	100%
139	LD	50	37	Y	1900-2000	45	33%	9%	0%	4%	18%	4%	0%	22%	0%	0%	0%	0%	2%	0%	0%	7%	0%	0%	100%
139	LD	50	38	Y	2000-2100	40	38%	13%	3%	8%	0%	8%	0%	23%	0%	0%	0%	0%	8%	0%	0%	3%	0%	0%	100%
139	LD	50	36	Y	2100-2200	45	56%	22%	0%	0%	0%	4%	0%	18%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
139	LD	50	36	Y	2200-2300	40	28%	15%	5%	8%	15%	5%	0%	15%	0%	0%	0%	3%	5%	0%	0%	3%	0%	0%	100%
139	LD	50	36	Y	2300-0000	30	67%	27%	0%	0%	0%	0%	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
137	LD	50	34	Y	0000-0100	40	38%	15%	3%	8%	10%	5%	0%	13%	0%	0%	0%	0%	5%	0%	3%	3%	0%	0%	100%
137	LD	50	35	Y	0100-0200	30	40%	10%	3%	7%	10%	7%	0%	10%	0%	0%	0%	0%	7%	0%	3%	3%	0%	0%	100%
137	LD	50	37	Y	0200-0300	15	40%	13%	0%	7%	20%	13%	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
137	LD	50	35	Y	0300-0400	10	40%	10%	10%	10%	0%	20%	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
137	LD	50	36	Y	0400-0500	30	40%	20%	3%	3%	0%	20%	0%	3%	0%	0%	0%	0%	7%	0%	3%	0%	0%	0%	100%
137	LD	50	36	Y	0500-0600	80	35%	11%	8%	1%	0%	21%	0%	1%	0%	0%	0%	6%	10%	0%	1%	4%	1%	0%	100%
137	LD	50	33	Y	0600-0700	165	37%	12%	4%	4%	3%	22%	1%	7%	0%	0%	0%	1%	5%	0%	2%	1%	0%	0%	100%
137	LD	50	32	Y	0700-0800	205	34%	19%	3%	1%	1%	20%	4%	6%	0%	0%	0%	0%	3%	0%	2%	4%	0%	0%	100%
137	LD	50	33	Y	0800-0900	235	34%	19%	6%	3%	6%	18%	2%	8%	0%	0%	0%	1%	0%	0%	1%	0%	1%	0%	100%
137	LD	50	35	Y	0900-1000	130	18%	15%	5%	7%	15%	25%	5%	6%	0%	1%	0%	0%	2%	0%	1%	2%	0%	0%	100%
137	LD	50	33	Y	1000-1100	145	15%	14%	10%	10%	12%	16%	3%	10%	0%	0%	0%	1%	4%	0%	1%	2%	1%	0%	100%
137	LD	50	34	Y	1100-1200	170	24%	11%	9%	4%	19%	1													

Road ID	Road Type	Speed Limit (km/hr)	Average Speed (km/hr)	Start Emission Estimated by Broad Brush Approach (Y/N)	Hour	Total Vehicles (Veh/hr)	01 - Private Cars	02 - Taxi	03 - Light Goods Vehicles<=2.5t	04 - Light Goods Vehicles 2.5-3.5t	05 - Light Goods Vehicles>3.5t	06 - Medium Goods Vehicles<=3.5t	07 - Medium Goods Vehicles>3.5t	08 - Public Light Buses	09 - Private Light Bus <=3.5t	10 - Private Light Bus >3.5t	11 - Non-franchised Bus<=6.4t	12 - Non-franchised Bus 6.4-15t	13 - Non-franchised Bus 15-24t	14 - Franchised Bus Single Deck	15 - Franchised Bus Double Deck	16 - Motorcycles	17 - Heavy Goods Vehicles>24t	18 - Non-franchised Bus >24t	Total
							PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9	
137	LD	50	36	Y	2100-2200	55	58%	22%	0%	0%	0%	4%	0%	16%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
137	LD	50	36	Y	2200-2300	45	27%	16%	4%	7%	16%	4%	0%	16%	0%	0%	0%	2%	4%	0%	2%	2%	0%	0%	100%
137	LD	50	35	Y	2300-0000	35	66%	26%	0%	0%	0%	0%	0%	6%	0%	0%	0%	0%	0%	0%	3%	0%	0%	0%	100%
133	LD	50	36	Y	0000-0100	30	30%	13%	3%	10%	10%	7%	0%	17%	0%	0%	0%	0%	3%	0%	3%	3%	0%	0%	100%
133	LD	50	35	Y	0100-0200	25	36%	12%	4%	8%	8%	4%	0%	12%	0%	0%	0%	0%	8%	0%	4%	4%	0%	0%	100%
133	LD	50	37	Y	0200-0300	15	40%	13%	0%	7%	20%	13%	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
133	LD	50	40	Y	0300-0400	10	30%	10%	10%	10%	10%	20%	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
133	LD	50	35	Y	0400-0500	25	36%	16%	4%	8%	0%	16%	0%	4%	0%	0%	0%	0%	8%	0%	4%	0%	4%	0%	100%
133	LD	50	36	Y	0500-0600	60	30%	13%	8%	5%	2%	18%	0%	2%	0%	0%	0%	5%	10%	0%	2%	3%	2%	0%	100%
133	LD	50	33	Y	0600-0700	150	31%	10%	6%	9%	5%	18%	1%	8%	0%	0%	0%	2%	5%	0%	2%	2%	1%	0%	100%
133	LD	50	32	Y	0700-0800	195	31%	16%	5%	7%	4%	16%	3%	7%	0%	1%	0%	1%	3%	0%	3%	4%	1%	0%	100%
133	LD	50	30	Y	0800-0900	215	30%	17%	6%	8%	7%	15%	2%	9%	0%	0%	0%	2%	1%	0%	1%	1%	1%	0%	100%
133	LD	50	34	Y	0900-1000	115	20%	15%	5%	10%	12%	20%	3%	7%	0%	1%	0%	1%	2%	0%	1%	3%	1%	0%	100%
133	LD	50	34	Y	1000-1100	125	19%	14%	9%	11%	10%	14%	3%	11%	0%	0%	0%	2%	3%	0%	1%	2%	1%	0%	100%
133	LD	50	35	Y	1100-1200	135	23%	10%	8%	7%	16%	13%	3%	11%	0%	1%	1%	1%	1%	0%	1%	3%	1%	0%	100%
133	LD	50	32	Y	1200-1300	150	21%	10%	7%	9%	18%	14%	2%	13%	0%	0%	1%	1%	1%	0%	1%	2%	1%	0%	100%
133	LD	50	34	Y	1300-1400	155	24%	8%	9%	8%	17%	13%	4%	9%	0%	1%	1%	2%	2%	0%	1%	2%	1%	0%	100%
133	LD	50	33	Y	1400-1500	185	25%	12%	7%	13%	11%	13%	3%	7%	0%	1%	0%	1%	3%	0%	1%	2%	1%	0%	100%
133	LD	50	33	Y	1500-1600	145	24%	10%	8%	10%	9%	12%	3%	12%	0%	1%	0%	1%	6%	0%	1%	2%	1%	0%	100%
133	LD	50	35	Y	1600-1700	125	29%	9%	6%	9%	7%	14%	1%	8%	0%	1%	1%	2%	8%	0%	4%	2%	1%	0%	100%
133	LD	50	31	Y	1700-1800	110	35%	8%	7%	9%	5%	10%	2%	13%	0%	0%	0%	4%	2%	0%	2%	3%	0%	0%	100%
133	LD	50	35	Y	1800-1900	75	27%	15%	4%	7%	9%	11%	1%	16%	0%	0%	0%	1%	3%	0%	3%	3%	1%	0%	100%
133	LD	50	37	Y	1900-2000	50	28%	10%	2%	8%	14%	6%	0%	24%	0%	0%	0%	0%	2%	0%	2%	4%	0%	0%	100%
133	LD	50	38	Y	2000-2100	45	27%	13%	4%	11%	4%	7%	0%	22%	0%	0%	0%	2%	4%	0%	2%	2%	0%	0%	100%
133	LD	50	35	Y	2100-2200	50	50%	18%	2%	4%	2%	4%	0%	18%	0%	0%	0%	0%	0%	0%	0%	0%	2%	0%	100%
133	LD	50	36	Y	2200-2300	40	30%	13%	5%	8%	13%	5%	0%	18%	0%	0%	0%	3%	3%	0%	3%	3%	0%	0%	100%
133	LD	50	35	Y	2300-0000	25	64%	24%	0%	0%	0%	0%	0%	8%	0%	0%	0%	0%	0%	0%	4%	0%	0%	0%	100%
125	LD	50	40	Y	0000-0100	45	40%	18%	4%	7%	4%	2%	0%	13%	0%	0%	0%	0%	2%	0%	7%	2%	0%	0%	100%
125	LD	50	39	Y	0100-0200	30	40%	17%	3%	7%	3%	3%	0%	13%	0%	0%	0%	0%	3%	0%	7%	3%	0%	0%	100%
125	LD	50	40	Y	0200-0300	15	33%	20%	7%	7%	7%	7%	0%	13%	0%	0%	0%	0%	0%	0%	7%	0%	0%	0%	100%
125	LD	50	37	Y	0300-0400	15	47%	13%	7%	7%	0%	7%	0%	13%	0%	0%	0%	0%	0%	7%	0%	0%	0%	0%	100%
125	LD	50	39	Y	0400-0500	10	30%	20%	10%	10%	0%	10%	0%	10%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	100%
125	LD	50	40	Y	0500-0600	30	27%	40%	3%	3%	0%	10%	0%	7%	0%	0%	0%	0%	0%	7%	0%	0%	3%	0%	100%
125	LD	50	37	Y	0600-0700	120	18%	42%	0%	3%	0%	5%	0%	18%	0%	0%	0%	3%	5%	0%	7%	0%	0%	0%	100%
125	LD	50	34	Y	0700-0800	195	27%	39%	6%	2%	0%	6%	2%	7%	0%	0%	0%	0%	1%	0%	10%	2%	0%	0%	100%
125	LD	50	35	Y	0800-0900	210	17%	32%	5%	4%	4%	13%	1%	12%	0%	1%	0%	1%	1%	0%	6%	0%	2%	0%	100%
125	LD	50	36	Y	0900-1000	150	20%	24%	5%	9%	4%	13%	4%	9%	0%	1%	0%	0%	1%	4%	2%	2%	2%	0%	100%
125	LD	50	37	Y	1000-1100	120	14%	13%	12%	9%	2%	17%	4%	16%	0%	0%	0%	0%	4%	2%	7%	2%	0%	0%	100%
125	LD	50	35	Y	1100-1200	165	38%	9%	8%	5%	4%	5%	2%	12%	0%	1%	0%	2%	2%	0%	5%	5%	1%	0%	100%
125	LD	50	35	Y	1200-1300	125	17%	18%	2%	12%	4%	18%	2%	16%	0%	0%	0%	2%	0%	0%	7%	2%	2%	0%	100%
125	LD	50	38	Y	1300-1400	125	27%	6%	7%	7%	7%	18%	2%	14%	0%	0%	0%	2%	4%	0%	5%	0%	0%	0%	100%
125	LD	50	37	Y	1400-1500	135	32%	14%	4%	4%	6%	11%	2%	11%	0%	0%	0%	0%	6%	0%	6%	4%	0%	0%	100%
125	LD	50	37	Y	1500-1600	145	34%	12%	6%	8%	6%	10%	2%	12%	0%	1%	0%	2%	1%	0%	6%	0%	0%	0%	100%
125	LD	50	36	Y	1600-1700	165	39%	12%	5%	3%	7%	5%	0%	12%	0%	1%	0%	1%	5%	0%	7%	4%	0%	0%	100%
125	LD	50	38	Y	1700-1800	140	52%	4%	6%	6%	4%	2%	4%	10%	0%	0%	0%	1%	2%	0%	8%	1%	0%	0%	100%
125	LD	50	38	Y	1800-1900	95	45%	12%	2%	2%	2%	8%	0%	15%	0%	0%	0%	0%	0%	2%	8%	3%	0%	0%	100%
125	LD	50	39	Y	1900-2000	65	51%	8%	0%	5%	0%	3%	0%	22%	0%	0%	0%	0%	0%	5%	8%	0%	0%	0%	100%
125	LD	50	37	Y	2000-2100	55	31%	15%	9%	5%	0%	4%	0%	22%	0%	0%	0%	0%	0%	0%	11%	4%	0%	0%	100%
125	LD	50	39	Y	2100-2200	65	54%	5%	3%	3%	0%	3%	0%	18%	0%	0%	0%	3%	0%	0%	8%	3%	0%	0%	100%
125	LD	50	39	Y	2200-2300	55	45%	5%	4%	5%	4%	2%	0%	16%	0%	0%	0%	2%	2%	0%	13%	2%	0%	0%	100%
125	LD	50	40	Y	2300-0000	45	49%	29%	0%	0%	0%	0%	0%	7%	0%	0%	0%	0%	0%	16%	0%	0%	0%	0%	100%
145	LD	50	45	Y	0000-0100	45	51%	9%	2%	11%	11%	2%	0%	7%	0%	0%	0%	0%	4%	0%	0%	2%	0%	0%	100%
145	LD	50	45	Y	0100-0200	25	28%	12%	4%	8%	12%	12%	0%	12%	0%	0%	0%	0%	8%	0%	0%	4%	0%	0%	100%
145	LD	50	46	Y	0200-0300	20	45%	20%	0%	5%	15%	15%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
145	LD	50	46	Y	0300-0400	15	33%	7%	7%	7%	0%	47%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
145	LD	50	47	Y	0400-0500	30	33%	17%	3%	0%	0%	27%	0%	0%	0%	0%	0%	17%	0%	0%	3%	0%	0%	0%	100%
145	LD	50	44	Y	0500-0600	90	30%	14%	4%	2%	8%	23%	4%	0%	0%	0%	0%	7%	6%	0%	0%	1%	0%	0%	100%
145	LD	50	42	Y	0600-0700	380	47%	6%	3%	2%	3%	15%	0%	3%	0%	0%	0%	7%	8%	0%	1%	2%	1%	0%	100%
145	LD	50	40	Y	0700-0800	550	43%	14%	1%	3%	1%	15%	1%	2%	0%	0%	0%	5%	10%	0%	1%	1%	1%	0%	100%
145	LD	50	43	Y	0800-0900	515	37%	19%	2%	7%	7%	12%	2%	3%	0%	0%	0%	4%	4%	0%	0%	1%	2%	0%	100%
145	LD	50	42	Y	0900-1000	305	29%	8%	5%	8%	7%	27%	5%	2%	0%	0%	0%	3%	4%	0%	1%	1%	2%	0%	100%
145	LD	50	42	Y	1000-1100	365	25%	10%	5%	8%	7%	21%	2%	4%	0%	0%	0%	2%	4%	0%	1%	7%	4%	0%	100%
145	LD	50	42	Y	1100-1200	285	32%	11%	4%	5%	11%	20%	1%	5%	0%	0%	0%	1%	3%	0%	1%	4%	2%	0%	100%
145	LD	50	43	Y	1200-1300	365	28%	14%	7%	4%	11%	18%	4%	5%	0%	1%	0%	2%	2%	0%	0%	2%	3%	0%	100%
145	LD	50	44	Y	1300-1400	285	26%	7%	6%	3%	11%	23%</													

Road ID	Road Type	Speed Limit (km/hr)	Average Speed (km/hr)	Start Emission Estimated by Broad Brush Approach (Y/N)	Hour	Total Vehicles (Veh/hr)	01 - Private Cars	02 - Taxi	03 - Light Goods Vehicles <=2.5t	04 - Light Goods Vehicles 2.5-3.5t	05 - Light Goods Vehicles >3.5t	06 - Medium Goods Vehicles <=3.5t	07 - Medium Goods Vehicles 3.5-5.24t	08 - Public Light Buses	09 - Private Light Bus <=3.5t	10 - Private Light Bus >3.5t	11 - Non-franchised Bus <=6.4t	12 - Non-franchised Bus 6.4-15t	13 - Non-franchised Bus 15-24t	14 - Franchised Bus Single Deck	15 - Franchised Bus Double Deck	16 - Motorcycles	17 - Heavy Goods Vehicles >24t	18 - Non-franchised Bus >24t	Total
							PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9	
145	LD	50	47	Y	2300-0000	35	57%	14%	0%	0%	0%	9%	3%	3%	0%	0%	0%	6%	9%	0%	0%	0%	0%	0%	100%
143	LD	50	47	Y	0000-0100	35	46%	3%	3%	11%	17%	3%	0%	9%	0%	0%	0%	0%	0%	0%	0%	3%	0%	0%	100%
143	LD	50	45	Y	0100-0200	20	25%	5%	5%	10%	15%	10%	0%	15%	0%	0%	0%	0%	10%	0%	0%	5%	0%	0%	100%
143	LD	50	46	Y	0200-0300	10	20%	20%	0%	10%	30%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
143	LD	50	49	Y	0300-0400	10	30%	0%	10%	10%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
143	LD	50	48	Y	0400-0500	25	44%	20%	4%	0%	0%	28%	0%	0%	0%	0%	0%	0%	0%	0%	4%	0%	0%	0%	100%
143	LD	50	45	Y	0500-0600	65	25%	17%	3%	2%	11%	29%	5%	0%	0%	0%	0%	3%	5%	0%	0%	2%	0%	0%	100%
143	LD	50	43	Y	0600-0700	260	42%	8%	2%	2%	3%	17%	0%	4%	0%	0%	0%	9%	7%	0%	2%	3%	2%	0%	100%
143	LD	50	43	Y	0700-0800	405	46%	18%	0%	2%	1%	13%	0%	3%	0%	0%	0%	5%	6%	0%	2%	2%	1%	0%	100%
143	LD	50	44	Y	0800-0900	370	43%	26%	1%	7%	1%	10%	2%	4%	0%	0%	0%	3%	1%	0%	0%	1%	2%	0%	100%
143	LD	50	43	Y	0900-1000	185	32%	12%	3%	6%	3%	30%	4%	4%	0%	0%	0%	2%	2%	0%	1%	2%	0%	0%	100%
143	LD	50	44	Y	1000-1100	240	23%	13%	4%	10%	6%	21%	1%	6%	0%	0%	0%	3%	3%	0%	0%	5%	5%	0%	100%
143	LD	50	43	Y	1100-1200	180	31%	14%	1%	8%	9%	19%	1%	8%	0%	1%	0%	1%	3%	0%	1%	3%	2%	0%	100%
143	LD	50	45	Y	1200-1300	265	31%	15%	6%	5%	8%	18%	3%	7%	0%	0%	0%	2%	1%	0%	0%	2%	2%	0%	100%
143	LD	50	45	Y	1300-1400	200	26%	5%	6%	4%	11%	25%	4%	7%	0%	0%	0%	4%	4%	0%	1%	3%	3%	0%	100%
143	LD	50	44	Y	1400-1500	235	38%	13%	3%	2%	6%	17%	4%	4%	0%	0%	0%	4%	5%	0%	1%	0%	3%	0%	100%
143	LD	50	44	Y	1500-1600	195	31%	13%	4%	6%	7%	13%	2%	8%	0%	1%	0%	2%	9%	1%	1%	2%	1%	0%	100%
143	LD	50	43	Y	1600-1700	185	25%	12%	3%	4%	3%	14%	2%	5%	0%	0%	0%	9%	17%	0%	4%	2%	0%	0%	100%
143	LD	50	42	Y	1700-1800	130	34%	16%	1%	2%	2%	14%	2%	8%	0%	0%	0%	12%	5%	0%	2%	2%	1%	0%	100%
143	LD	50	45	Y	1800-1900	105	30%	23%	2%	8%	1%	13%	1%	10%	0%	0%	0%	7%	2%	1%	2%	2%	0%	0%	100%
143	LD	50	44	Y	1900-2000	65	34%	15%	3%	2%	0%	18%	0%	14%	0%	0%	0%	8%	0%	0%	3%	3%	0%	0%	100%
143	LD	50	44	Y	2000-2100	65	54%	12%	0%	3%	2%	5%	0%	14%	0%	0%	0%	3%	5%	0%	3%	0%	0%	0%	100%
143	LD	50	46	Y	2100-2200	70	43%	26%	1%	4%	3%	9%	0%	7%	0%	0%	0%	4%	0%	0%	0%	3%	0%	0%	100%
143	LD	50	45	Y	2200-2300	50	20%	2%	0%	14%	18%	16%	2%	10%	0%	0%	0%	8%	6%	0%	0%	2%	2%	0%	100%
143	LD	50	46	Y	2300-0000	20	65%	15%	0%	0%	0%	5%	0%	5%	0%	0%	0%	5%	5%	0%	0%	0%	0%	0%	100%
141	LD	50	44	Y	0000-0100	35	46%	3%	3%	11%	17%	3%	0%	9%	0%	0%	0%	0%	6%	0%	0%	3%	0%	0%	100%
141	LD	50	45	Y	0100-0200	20	25%	5%	5%	10%	15%	10%	0%	15%	0%	0%	0%	0%	10%	0%	0%	5%	0%	0%	100%
141	LD	50	46	Y	0200-0300	10	20%	20%	0%	10%	30%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
141	LD	50	44	Y	0300-0400	10	30%	0%	10%	10%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
141	LD	50	44	Y	0400-0500	25	44%	20%	4%	0%	0%	28%	0%	0%	0%	0%	0%	0%	0%	0%	4%	0%	0%	0%	100%
141	LD	50	46	Y	0500-0600	65	25%	17%	3%	2%	11%	29%	5%	0%	0%	0%	0%	3%	5%	0%	0%	2%	0%	0%	100%
141	LD	50	43	Y	0600-0700	260	43%	8%	2%	2%	3%	17%	0%	4%	0%	0%	0%	9%	7%	0%	1%	3%	2%	0%	100%
141	LD	50	41	Y	0700-0800	400	47%	18%	1%	3%	1%	13%	1%	3%	0%	0%	0%	5%	6%	0%	1%	2%	2%	0%	100%
141	LD	50	43	Y	0800-0900	370	43%	26%	1%	7%	1%	10%	2%	4%	0%	0%	0%	3%	1%	0%	0%	1%	2%	0%	100%
141	LD	50	45	Y	0900-1000	185	32%	12%	3%	6%	3%	30%	4%	4%	0%	0%	0%	2%	2%	0%	1%	2%	0%	0%	100%
141	LD	50	44	Y	1000-1100	240	23%	13%	4%	10%	6%	21%	1%	6%	0%	0%	0%	3%	3%	0%	0%	5%	5%	0%	100%
141	LD	50	43	Y	1100-1200	180	31%	14%	1%	8%	9%	19%	1%	8%	0%	1%	0%	1%	3%	0%	1%	3%	2%	0%	100%
141	LD	50	45	Y	1200-1300	265	31%	15%	6%	5%	8%	18%	3%	7%	0%	0%	0%	2%	1%	0%	0%	2%	2%	0%	100%
141	LD	50	45	Y	1300-1400	200	26%	5%	6%	4%	11%	25%	4%	7%	0%	0%	0%	4%	4%	0%	1%	3%	3%	0%	100%
141	LD	50	44	Y	1400-1500	235	38%	13%	3%	2%	6%	17%	4%	4%	0%	0%	0%	4%	5%	0%	1%	0%	3%	0%	100%
141	LD	50	43	Y	1500-1600	195	31%	13%	4%	6%	7%	13%	2%	8%	0%	1%	0%	2%	9%	1%	1%	2%	1%	0%	100%
141	LD	50	44	Y	1600-1700	180	26%	12%	3%	4%	3%	14%	2%	6%	0%	0%	0%	9%	18%	0%	2%	2%	0%	0%	100%
141	LD	50	45	Y	1700-1800	130	35%	16%	1%	2%	2%	14%	2%	8%	0%	0%	0%	12%	5%	0%	1%	2%	1%	0%	100%
141	LD	50	45	Y	1800-1900	105	30%	23%	2%	8%	1%	13%	1%	10%	0%	0%	0%	7%	2%	1%	2%	2%	0%	0%	100%
141	LD	50	45	Y	1900-2000	65	34%	15%	3%	2%	0%	18%	0%	14%	0%	0%	0%	8%	0%	0%	3%	3%	0%	0%	100%
141	LD	50	45	Y	2000-2100	65	54%	12%	0%	3%	2%	5%	0%	14%	0%	0%	0%	3%	5%	0%	3%	0%	0%	0%	100%
141	LD	50	45	Y	2100-2200	70	43%	26%	1%	4%	3%	9%	0%	7%	0%	0%	0%	4%	0%	0%	0%	3%	0%	0%	100%
141	LD	50	45	Y	2200-2300	50	20%	2%	0%	14%	18%	16%	2%	10%	0%	0%	0%	8%	6%	0%	0%	2%	2%	0%	100%
141	LD	50	45	Y	2300-0000	20	65%	15%	0%	0%	0%	5%	0%	5%	0%	0%	0%	5%	5%	0%	0%	0%	0%	0%	100%
142	LD	50	44	Y	0000-0100	40	53%	28%	0%	3%	0%	0%	0%	5%	0%	0%	0%	0%	0%	0%	10%	3%	0%	0%	100%
142	LD	50	45	Y	0100-0200	20	40%	40%	0%	0%	0%	5%	0%	5%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	100%
142	LD	50	46	Y	0200-0300	15	47%	40%	0%	0%	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	7%	0%	0%	0%	100%
142	LD	50	43	Y	0300-0400	15	47%	27%	0%	0%	0%	20%	0%	0%	0%	0%	0%	0%	0%	0%	7%	0%	0%	0%	100%
142	LD	50	45	Y	0400-0500	20	15%	25%	0%	0%	0%	15%	0%	0%	0%	0%	0%	30%	0%	5%	10%	0%	0%	0%	100%
142	LD	50	44	Y	0500-0600	50	22%	22%	2%	2%	2%	10%	2%	2%	0%	0%	0%	22%	6%	2%	6%	0%	0%	0%	100%
142	LD	50	44	Y	0600-0700	225	39%	13%	2%	3%	3%	17%	0%	4%	0%	0%	0%	6%	6%	0%	4%	4%	1%	0%	100%
142	LD	50	44	Y	0700-0800	335	32%	19%	0%	4%	1%	19%	2%	4%	0%	0%	0%	4%	10%	0%	4%	1%	1%	0%	100%
142	LD	50	44	Y	0800-0900	300	23%	22%	1%	8%	7%	19%	1%	4%	0%	0%	0%	3%	7%	1%	3%	0%	1%	0%	100%
142	LD	50	44	Y	0900-1000	260	23%	13%	2%	5%	8%	29%	5%	3%	0%	0%	0%	2%	3%	0%	2%	0%	3%	0%	100%
142	LD	50	43	Y	1000-1100	295	35%	12%	3%	6%	3%	18%	3%	6%	0%	0%	0%	2%	3%	1%	1%	3%	3%	0%	100%
142	LD	50	44	Y	1100-1200	265	40%	14%	3%	3%	6%	17%	1%	4%	0%	0%	0%	2%	3%	0%	3%	3%	2%	0%	100%
142	LD	50	41	Y	1200-1300	270	24%	17%	3%	7%	14%	14%	4%	6%	0%	0%	0%	1%	4%	0%	1%	1%	4%	0%	100%
142	LD	50	45	Y	1300-1400	220	27%	15%	7%	8%	5%	16%	4%	5%	0%	0%	0%	4%	4%	0%	1%	2%	3%	0%	100%
142	LD	50	44	Y	1400-1500	220	36%	14%	3%	2%	3%	15%	3%	6%	0%	0%	1%	4%	3%	0%	3%	2%	4%	0%	100%
142	LD	50	45	Y	1500-1600	205	40%	10%	3%	3%	3%														

Road ID	Road Type	Speed Limit (km/hr)	Average Speed (km/hr)	Start Emission Estimated by Broad Brush Approach (Y/N)	Hour	Total Vehicles (Veh/hr)	01 - Private Cars	02 - Taxi	03 - Light Goods Vehicles <=2.5t	04 - Light Goods Vehicles 2.5-3.5t	05 - Light Goods Vehicles >3.5t	06 - Medium Goods Vehicles <=3.5t	07 - Medium Goods Vehicles 3.5-5.24t	08 - Public Light Buses	09 - Private Light Bus <=3.5t	10 - Private Light Bus >3.5t	11 - Non-franchised Bus <=6.4t	12 - Non-franchised Bus 6.4-15t	13 - Non-franchised Bus 15-24t	14 - Franchised Bus Single Deck	15 - Franchised Bus Double Deck	16 - Motorcycles	17 - Heavy Goods Vehicles >24t	18 - Non-franchised Bus >24t	Total
							PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9	
144	LD	50	47	Y	0100-0200	20	45%	40%	0%	0%	0%	5%	0%	5%	0%	0%	0%	0%	0%	0%	5%	0%	0%	0%	100%
144	LD	50	46	Y	0200-0300	15	47%	40%	0%	0%	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	7%	0%	0%	0%	100%
144	LD	50	45	Y	0300-0400	15	47%	27%	0%	0%	0%	20%	0%	0%	0%	0%	0%	0%	0%	0%	7%	0%	0%	0%	100%
144	LD	50	44	Y	0400-0500	20	20%	25%	0%	0%	0%	15%	0%	0%	0%	0%	0%	30%	0%	5%	5%	0%	0%	0%	100%
144	LD	50	45	Y	0500-0600	50	24%	22%	2%	2%	2%	10%	2%	2%	0%	0%	0%	22%	6%	2%	4%	0%	0%	0%	100%
144	LD	50	44	Y	0600-0700	225	40%	13%	2%	3%	3%	17%	0%	4%	0%	0%	0%	6%	6%	0%	2%	4%	1%	0%	100%
144	LD	50	43	Y	0700-0800	330	32%	19%	0%	4%	1%	19%	2%	4%	0%	0%	0%	4%	10%	0%	2%	1%	2%	0%	100%
144	LD	50	42	Y	0800-0900	295	23%	22%	1%	8%	7%	19%	1%	4%	0%	0%	0%	3%	7%	1%	2%	0%	1%	0%	100%
144	LD	50	42	Y	0900-1000	260	24%	13%	2%	5%	8%	29%	5%	3%	0%	0%	0%	2%	3%	0%	1%	0%	3%	0%	100%
144	LD	50	43	Y	1000-1100	295	35%	12%	3%	6%	3%	18%	3%	6%	0%	0%	0%	2%	3%	1%	0%	3%	3%	0%	100%
144	LD	50	44	Y	1100-1200	265	40%	14%	3%	3%	6%	17%	1%	4%	0%	0%	0%	2%	3%	0%	2%	3%	2%	0%	100%
144	LD	50	45	Y	1200-1300	270	24%	17%	3%	7%	14%	14%	4%	6%	0%	0%	0%	1%	4%	0%	1%	1%	4%	0%	100%
144	LD	50	45	Y	1300-1400	220	27%	15%	7%	8%	5%	16%	4%	5%	0%	0%	0%	4%	4%	0%	0%	2%	3%	0%	100%
144	LD	50	44	Y	1400-1500	215	36%	14%	3%	2%	3%	16%	3%	6%	0%	0%	1%	4%	3%	0%	2%	2%	4%	0%	100%
144	LD	50	45	Y	1500-1600	205	40%	10%	3%	3%	5%	11%	2%	7%	0%	0%	0%	2%	9%	1%	0%	2%	1%	0%	100%
144	LD	50	41	Y	1600-1700	360	50%	11%	2%	3%	1%	5%	1%	3%	0%	0%	0%	6%	11%	0%	3%	4%	0%	0%	100%
144	LD	50	43	Y	1700-1800	300	58%	13%	2%	2%	2%	3%	0%	4%	0%	0%	0%	5%	7%	0%	2%	2%	0%	0%	100%
144	LD	50	44	Y	1800-1900	170	40%	24%	1%	5%	1%	8%	1%	5%	0%	0%	0%	5%	2%	1%	4%	4%	0%	0%	100%
144	LD	50	46	Y	1900-2000	95	21%	32%	2%	3%	4%	15%	0%	11%	0%	0%	0%	6%	1%	0%	3%	2%	0%	0%	100%
144	LD	50	46	Y	2000-2100	70	39%	17%	1%	3%	1%	9%	1%	11%	0%	0%	0%	3%	10%	0%	3%	1%	0%	0%	100%
144	LD	50	44	Y	2100-2200	65	32%	40%	0%	0%	5%	8%	0%	9%	0%	0%	0%	5%	0%	0%	0%	2%	0%	0%	100%
144	LD	50	45	Y	2200-2300	65	23%	18%	3%	6%	8%	8%	3%	9%	0%	0%	0%	6%	8%	0%	3%	3%	2%	0%	100%
144	LD	50	47	Y	2300-0000	40	45%	20%	0%	0%	0%	10%	3%	8%	0%	0%	0%	3%	5%	0%	5%	3%	0%	0%	100%
146	LD	50	45	Y	0000-0100	60	40%	20%	3%	5%	15%	2%	0%	3%	0%	0%	0%	0%	3%	0%	5%	3%	0%	0%	100%
146	LD	50	45	Y	0100-0200	35	31%	26%	6%	3%	14%	6%	0%	3%	0%	0%	0%	0%	6%	0%	3%	3%	0%	0%	100%
146	LD	50	46	Y	0200-0300	25	36%	32%	0%	0%	20%	8%	0%	0%	0%	0%	0%	0%	0%	0%	4%	0%	0%	0%	100%
146	LD	50	45	Y	0300-0400	20	35%	20%	10%	0%	0%	30%	0%	0%	0%	0%	0%	0%	0%	0%	5%	0%	0%	0%	100%
146	LD	50	47	Y	0400-0500	30	20%	30%	7%	0%	0%	20%	0%	0%	0%	0%	0%	17%	0%	3%	3%	0%	0%	0%	100%
146	LD	50	44	Y	0500-0600	95	20%	22%	4%	1%	7%	16%	5%	1%	0%	0%	0%	13%	6%	1%	2%	1%	0%	0%	100%
146	LD	50	43	Y	0600-0700	335	36%	16%	1%	3%	6%	13%	1%	2%	0%	0%	0%	7%	8%	0%	1%	4%	2%	0%	100%
146	LD	50	40	Y	0700-0800	535	36%	21%	1%	3%	4%	15%	2%	3%	0%	0%	0%	3%	7%	0%	1%	2%	1%	0%	100%
146	LD	50	40	Y	0800-0900	495	25%	27%	2%	6%	5%	17%	2%	2%	0%	0%	0%	4%	5%	0%	1%	1%	1%	0%	100%
146	LD	50	42	Y	0900-1000	450	25%	24%	3%	3%	5%	22%	4%	2%	0%	0%	0%	5%	3%	0%	1%	1%	2%	0%	100%
146	LD	50	42	Y	1000-1100	425	31%	14%	6%	5%	5%	17%	3%	4%	0%	0%	0%	3%	4%	0%	0%	5%	2%	0%	100%
146	LD	50	42	Y	1100-1200	350	37%	16%	3%	4%	8%	16%	1%	3%	0%	0%	0%	1%	3%	0%	1%	4%	2%	0%	100%
146	LD	50	41	Y	1200-1300	415	26%	20%	5%	6%	12%	14%	4%	4%	0%	0%	0%	2%	3%	0%	0%	1%	3%	0%	100%
146	LD	50	43	Y	1300-1400	325	25%	13%	8%	7%	8%	17%	4%	3%	0%	0%	0%	4%	6%	0%	0%	2%	3%	0%	100%
146	LD	50	42	Y	1400-1500	350	31%	16%	5%	3%	7%	16%	3%	4%	0%	0%	1%	4%	5%	0%	1%	1%	3%	0%	100%
146	LD	50	41	Y	1500-1600	340	33%	9%	4%	4%	6%	15%	3%	4%	0%	1%	0%	3%	14%	1%	0%	2%	1%	0%	100%
146	LD	50	42	Y	1600-1700	485	43%	10%	2%	3%	2%	8%	1%	2%	0%	0%	0%	7%	16%	0%	2%	4%	1%	0%	100%
146	LD	50	44	Y	1700-1800	360	53%	13%	2%	2%	3%	5%	1%	3%	0%	0%	0%	6%	9%	0%	1%	2%	1%	0%	100%
146	LD	50	44	Y	1800-1900	225	37%	21%	1%	5%	2%	11%	2%	4%	0%	0%	0%	6%	3%	0%	3%	4%	1%	0%	100%
146	LD	50	45	Y	1900-2000	130	25%	28%	4%	2%	3%	16%	0%	8%	0%	0%	0%	7%	1%	0%	3%	3%	0%	0%	100%
146	LD	50	43	Y	2000-2100	95	35%	21%	1%	3%	3%	8%	1%	8%	0%	0%	0%	4%	11%	0%	3%	1%	0%	0%	100%
146	LD	50	44	Y	2100-2200	100	33%	40%	2%	1%	5%	7%	0%	6%	0%	0%	0%	5%	0%	0%	0%	1%	0%	0%	100%
146	LD	50	45	Y	2200-2300	85	20%	15%	2%	8%	12%	8%	4%	7%	0%	0%	0%	8%	9%	0%	2%	2%	1%	0%	100%
146	LD	50	46	Y	2300-0000	50	44%	22%	0%	0%	0%	10%	2%	6%	0%	0%	0%	4%	6%	0%	4%	2%	0%	0%	100%
151	LD	50	37	Y	0000-0100	35	34%	20%	6%	9%	0%	0%	0%	3%	0%	0%	0%	0%	20%	0%	3%	6%	0%	0%	100%
151	LD	50	37	Y	0100-0200	30	33%	27%	7%	10%	0%	0%	0%	0%	0%	0%	0%	0%	23%	0%	0%	0%	0%	0%	100%
151	LD	50	38	Y	0200-0300	15	47%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	20%	0%	0%	0%	0%	0%	100%
151	LD	50	36	Y	0300-0400	15	47%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	20%	0%	0%	0%	0%	0%	100%
151	LD	50	40	Y	0400-0500	15	67%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
151	LD	50	37	Y	0500-0600	30	33%	27%	7%	0%	0%	10%	0%	0%	0%	0%	0%	23%	0%	0%	0%	0%	0%	0%	100%
151	LD	50	33	Y	0600-0700	190	24%	27%	4%	11%	3%	6%	1%	1%	1%	0%	0%	13%	0%	1%	7%	3%	0%	0%	100%
151	LD	50	32	Y	0700-0800	330	43%	22%	2%	3%	0%	8%	2%	1%	0%	0%	0%	0%	12%	0%	2%	2%	2%	0%	100%
151	LD	50	33	Y	0800-0900	250	32%	24%	5%	9%	0%	14%	4%	2%	0%	0%	0%	0%	6%	0%	0%	2%	1%	0%	100%
151	LD	50	34	Y	0900-1000	180	24%	40%	9%	9%	0%	6%	2%	1%	0%	0%	0%	0%	4%	0%	1%	4%	0%	0%	100%
151	LD	50	34	Y	1000-1100	160	29%	28%	4%	6%	0%	8%	2%	1%	0%	0%	0%	1%	17%	0%	1%	3%	1%	0%	100%
151	LD	50	33	Y	1100-1200	165	31%	28%	4%	6%	0%	7%	2%	1%	0%	0%	0%	1%	16%	0%	1%	2%	1%	0%	100%
151	LD	50	35	Y	1200-1300	130	32%	26%	4%	5%	0%	8%	3%	1%	0%	0%	0%	1%	16%	0%	2%	2%	2%	0%	100%
151	LD	50	36	Y	1300-1400	130	28%	28%	4%	8%	0%	8%	3%	1%	0%	0%	0%	1%	16%	0%	2%	2%	0%	0%	100%
151	LD	50	35	Y	1400-1500	120	31%	28%	4%	5%	0%	7%	3%	1%	0%	0%	0%	1%	18%	0%	1%	3%	0%	0%	100%
151	LD	50	35	Y	1500-1600	80	15%	15%	6%	3%	6%	10%	5%	0%	0%	0%	0%	0%	40%	0%	0%	0%	0%	0%	100%
151	LD	50	34	Y	1600-1700	140	22%	13%	1%	1%	4%	6%	3%	0%	0%	0%	0%	0%	48%	0%	1%	1%	0%	0%	100%
151	LD	50	36	Y	1700-1800	110	31%	26%	2%	2%	0%	5%	2%	0%											

Road ID	Road Type	Speed Limit (km/hr)	Average Speed (km/hr)	Start Emission Estimated by Broad Brush Approach (Y/N)	Hour	Total Vehicles (Veh/hr)	01 - Private Cars	02 - Taxi	03 - Light Goods Vehicles <=2.5t	04 - Light Goods Vehicles 2.5-3.5t	05 - Light Goods Vehicles >3.5t	06 - Medium Goods Vehicles <=3.5t	07 - Medium Goods Vehicles 3.5-5.24t	08 - Public Light Buses	09 - Private Light Bus <=3.5t	10 - Private Light Bus >3.5t	11 - Non-franchised Bus <=6.4t	12 - Non-franchised Bus 6.4-15t	13 - Non-franchised Bus 15-24t	14 - Franchised Bus Single Deck	15 - Franchised Bus Double Deck	16 - Motorcycles	17 - Heavy Goods Vehicles >24t	18 - Non-franchised Bus >24t	Total
							PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9	
147	LD	50	30	Y	0300-0400	20	35%	35%	0%	0%	0%	5%	0%	0%	0%	0%	0%	0%	20%	0%	5%	0%	0%	0%	100%
147	LD	50	34	Y	0400-0500	20	55%	35%	0%	0%	0%	5%	0%	0%	0%	0%	0%	0%	0%	0%	5%	0%	0%	0%	100%
147	LD	50	29	Y	0500-0600	45	33%	24%	7%	0%	0%	13%	0%	0%	0%	0%	0%	0%	20%	0%	2%	0%	0%	0%	100%
147	LD	50	26	Y	0600-0700	275	26%	27%	3%	10%	2%	7%	0%	0%	0%	1%	0%	0%	15%	0%	1%	7%	2%	0%	100%
147	LD	50	26	Y	0700-0800	475	42%	25%	2%	3%	0%	10%	2%	0%	0%	0%	0%	0%	11%	0%	1%	1%	2%	0%	100%
147	LD	50	24	Y	0800-0900	350	30%	24%	6%	9%	0%	18%	3%	0%	0%	0%	0%	0%	6%	0%	1%	3%	1%	0%	100%
147	LD	50	26	Y	0900-1000	240	24%	36%	10%	8%	0%	12%	2%	0%	0%	0%	0%	1%	4%	0%	1%	4%	0%	0%	100%
147	LD	50	26	Y	1000-1100	240	30%	26%	4%	5%	0%	11%	2%	0%	0%	0%	0%	1%	15%	0%	1%	3%	1%	0%	100%
147	LD	50	25	Y	1100-1200	240	30%	27%	4%	5%	0%	11%	2%	0%	0%	0%	0%	1%	15%	0%	1%	2%	1%	0%	100%
147	LD	50	27	Y	1200-1300	185	31%	25%	4%	4%	0%	12%	2%	0%	0%	0%	0%	1%	15%	0%	1%	3%	2%	0%	100%
147	LD	50	25	Y	1300-1400	190	29%	27%	4%	7%	0%	12%	2%	0%	0%	0%	0%	1%	14%	0%	1%	3%	0%	0%	100%
147	LD	50	27	Y	1400-1500	175	31%	27%	5%	5%	0%	11%	2%	0%	0%	0%	0%	1%	15%	0%	1%	3%	0%	0%	100%
147	LD	50	26	Y	1500-1600	155	20%	12%	6%	3%	3%	15%	3%	0%	0%	0%	0%	0%	34%	0%	1%	3%	1%	0%	100%
147	LD	50	25	Y	1600-1700	200	22%	16%	3%	1%	4%	11%	2%	0%	0%	0%	0%	1%	38%	0%	2%	1%	0%	0%	100%
147	LD	50	28	Y	1700-1800	145	30%	27%	3%	3%	1%	7%	1%	0%	0%	0%	0%	0%	1%	23%	0%	1%	0%	0%	100%
147	LD	50	27	Y	1800-1900	120	33%	38%	3%	4%	1%	3%	1%	0%	0%	0%	0%	4%	8%	0%	2%	4%	0%	0%	100%
147	LD	50	26	Y	1900-2000	145	32%	30%	6%	6%	0%	2%	0%	0%	0%	0%	0%	1%	19%	0%	1%	3%	0%	0%	100%
147	LD	50	28	Y	2000-2100	105	35%	31%	5%	4%	0%	2%	0%	0%	0%	0%	0%	2%	17%	0%	1%	3%	0%	0%	100%
147	LD	50	26	Y	2100-2200	100	36%	29%	5%	4%	0%	2%	0%	0%	0%	0%	0%	2%	18%	0%	1%	3%	0%	0%	100%
147	LD	50	27	Y	2200-2300	90	39%	29%	6%	4%	0%	3%	0%	0%	0%	0%	0%	0%	14%	0%	1%	3%	0%	0%	100%
147	LD	50	27	Y	2300-0000	60	33%	32%	5%	7%	0%	2%	0%	0%	0%	0%	0%	0%	15%	0%	2%	5%	0%	0%	100%
129	LD	50	38	Y	0000-0100	30	30%	20%	7%	7%	0%	0%	0%	0%	0%	0%	0%	0%	27%	0%	3%	7%	0%	0%	100%
129	LD	50	37	Y	0100-0200	30	33%	23%	7%	7%	0%	0%	0%	0%	0%	0%	0%	0%	27%	0%	3%	0%	0%	0%	100%
129	LD	50	39	Y	0200-0300	15	40%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	27%	0%	0%	0%	0%	0%	100%
129	LD	50	40	Y	0300-0400	15	33%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	27%	0%	7%	0%	0%	0%	100%
129	LD	50	38	Y	0400-0500	15	60%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%	0%	0%	0%	100%
129	LD	50	36	Y	0500-0600	30	33%	23%	7%	0%	0%	7%	0%	0%	0%	0%	0%	0%	27%	0%	3%	0%	0%	0%	100%
129	LD	50	33	Y	0600-0700	160	39%	14%	6%	9%	0%	0%	1%	0%	1%	0%	0%	0%	20%	0%	1%	6%	3%	0%	100%
129	LD	50	33	Y	0700-0800	330	41%	23%	2%	3%	2%	8%	2%	0%	0%	0%	0%	1%	14%	0%	1%	1%	3%	0%	100%
129	LD	50	31	Y	0800-0900	330	29%	21%	5%	6%	17%	7%	3%	0%	0%	0%	0%	0%	6%	0%	1%	3%	1%	0%	100%
129	LD	50	33	Y	0900-1000	235	21%	29%	10%	4%	24%	0%	2%	0%	0%	0%	0%	1%	4%	0%	1%	4%	0%	0%	100%
129	LD	50	32	Y	1000-1100	185	37%	22%	4%	4%	0%	4%	2%	0%	0%	0%	0%	1%	18%	0%	2%	4%	2%	0%	100%
129	LD	50	33	Y	1100-1200	195	33%	30%	4%	4%	0%	4%	2%	0%	0%	0%	0%	1%	17%	0%	2%	3%	2%	0%	100%
129	LD	50	33	Y	1200-1300	155	35%	27%	4%	3%	0%	5%	3%	0%	0%	0%	0%	1%	16%	0%	1%	3%	2%	0%	100%
129	LD	50	32	Y	1300-1400	145	28%	31%	4%	6%	0%	5%	3%	0%	0%	0%	0%	1%	17%	0%	1%	3%	0%	0%	100%
129	LD	50	33	Y	1400-1500	135	30%	31%	4%	4%	0%	4%	2%	0%	0%	0%	0%	1%	19%	0%	1%	4%	0%	0%	100%
129	LD	50	34	Y	1500-1600	110	14%	16%	0%	5%	0%	7%	4%	0%	0%	0%	0%	0%	47%	0%	2%	4%	2%	0%	100%
129	LD	50	33	Y	1600-1700	150	17%	11%	4%	3%	1%	9%	3%	0%	0%	0%	0%	0%	49%	0%	3%	1%	0%	0%	100%
129	LD	50	32	Y	1700-1800	100	27%	23%	0%	5%	1%	6%	2%	0%	0%	0%	0%	2%	32%	0%	2%	0%	0%	0%	100%
129	LD	50	33	Y	1800-1900	85	21%	46%	0%	6%	1%	2%	1%	0%	0%	0%	0%	6%	12%	0%	2%	2%	0%	0%	100%
129	LD	50	33	Y	1900-2000	110	32%	26%	5%	5%	0%	1%	0%	0%	0%	0%	0%	2%	23%	0%	2%	5%	0%	0%	100%
129	LD	50	35	Y	2000-2100	80	36%	28%	5%	3%	0%	0%	0%	0%	0%	0%	0%	3%	21%	0%	1%	4%	0%	0%	100%
129	LD	50	32	Y	2100-2200	75	35%	27%	5%	3%	0%	0%	0%	0%	0%	0%	0%	3%	23%	0%	1%	4%	0%	0%	100%
129	LD	50	34	Y	2200-2300	65	35%	28%	6%	3%	0%	3%	0%	0%	0%	0%	0%	0%	18%	0%	2%	5%	0%	0%	100%
129	LD	50	35	Y	2300-0000	45	38%	27%	4%	4%	0%	0%	0%	0%	0%	0%	0%	0%	18%	0%	2%	7%	0%	0%	100%
127	LD	50	36	Y	0000-0100	35	26%	23%	9%	6%	0%	20%	0%	0%	0%	0%	0%	0%	0%	0%	14%	3%	0%	0%	100%
127	LD	50	37	Y	0100-0200	30	33%	30%	10%	7%	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	100%
127	LD	50	39	Y	0200-0300	15	40%	40%	0%	0%	0%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
127	LD	50	38	Y	0300-0400	20	40%	30%	0%	0%	0%	15%	0%	0%	0%	0%	0%	0%	0%	0%	15%	0%	0%	0%	100%
127	LD	50	36	Y	0400-0500	20	40%	30%	0%	0%	0%	15%	0%	0%	0%	0%	0%	0%	0%	0%	15%	0%	0%	0%	100%
127	LD	50	36	Y	0500-0600	30	23%	30%	10%	0%	0%	27%	0%	0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	100%
127	LD	50	32	Y	0600-0700	225	13%	47%	4%	4%	0%	11%	0%	4%	0%	0%	0%	4%	0%	0%	15%	4%	0%	0%	100%
127	LD	50	33	Y	0700-0800	255	28%	42%	5%	3%	3%	10%	3%	0%	0%	0%	0%	0%	0%	0%	6%	0%	0%	0%	100%
127	LD	50	34	Y	0800-0900	300	13%	33%	5%	0%	19%	18%	0%	0%	0%	0%	0%	0%	8%	0%	4%	0%	0%	0%	100%
127	LD	50	33	Y	0900-1000	220	4%	26%	7%	0%	26%	26%	0%	0%	0%	0%	0%	0%	7%	0%	4%	0%	0%	0%	100%
127	LD	50	33	Y	1000-1100	145	10%	26%	8%	5%	0%	23%	1%	0%	0%	0%	0%	1%	14%	0%	10%	3%	0%	0%	100%
127	LD	50	33	Y	1100-1200	130	8%	30%	8%	5%	0%	17%	2%	0%	0%	0%	0%	2%	16%	0%	11%	2%	0%	0%	100%
127	LD	50	31	Y	1200-1300	90	12%	23%	10%	4%	0%	17%	0%	0%	0%	0%	0%	2%	17%	0%	12%	2%	0%	0%	100%
127	LD	50	33	Y	1300-1400	120	30%	19%	8%	6%	0%	13%	0%	0%	0%	0%	0%	2%	13%	0%	9%	2%	0%	0%	100%
127	LD	50	33	Y	1400-1500	130	25%	11%	7%	3%	0%	22%	0%	0%	0%	0%	0%	1%	24%	0%	6%	2%	0%	0%	100%
127	LD	50	32	Y	1500-1600	265	20%	6%	9%	6%	3%	12%	0%	0%	0%	0%	0%	0%	34%	0%	6%	3%	0%	0%	100%
127	LD	50	33	Y	1600-1700	255	35%	8%	3%	2%	5%	21%	0%	0%	0%	0%	0%	3%	16%	0%	5%	3%	0%	0%	100%
127	LD	50	34	Y	1700-1800	140	42%	14%	6%	6%	0%	24%	0%	0%	0%	0%	0%	0%	0%	3%	6%	0%	0%	0%	100%
127	LD	50	34	Y	1800-1900	65	17%	28%	0%	14%	0%	28%	0%	0%	0%	0%	0%	0%	0%	14%	0%	0%	0%	0%	100%
127	LD	50	34	Y	1900-2000	115	24%	34%	8%	3%															

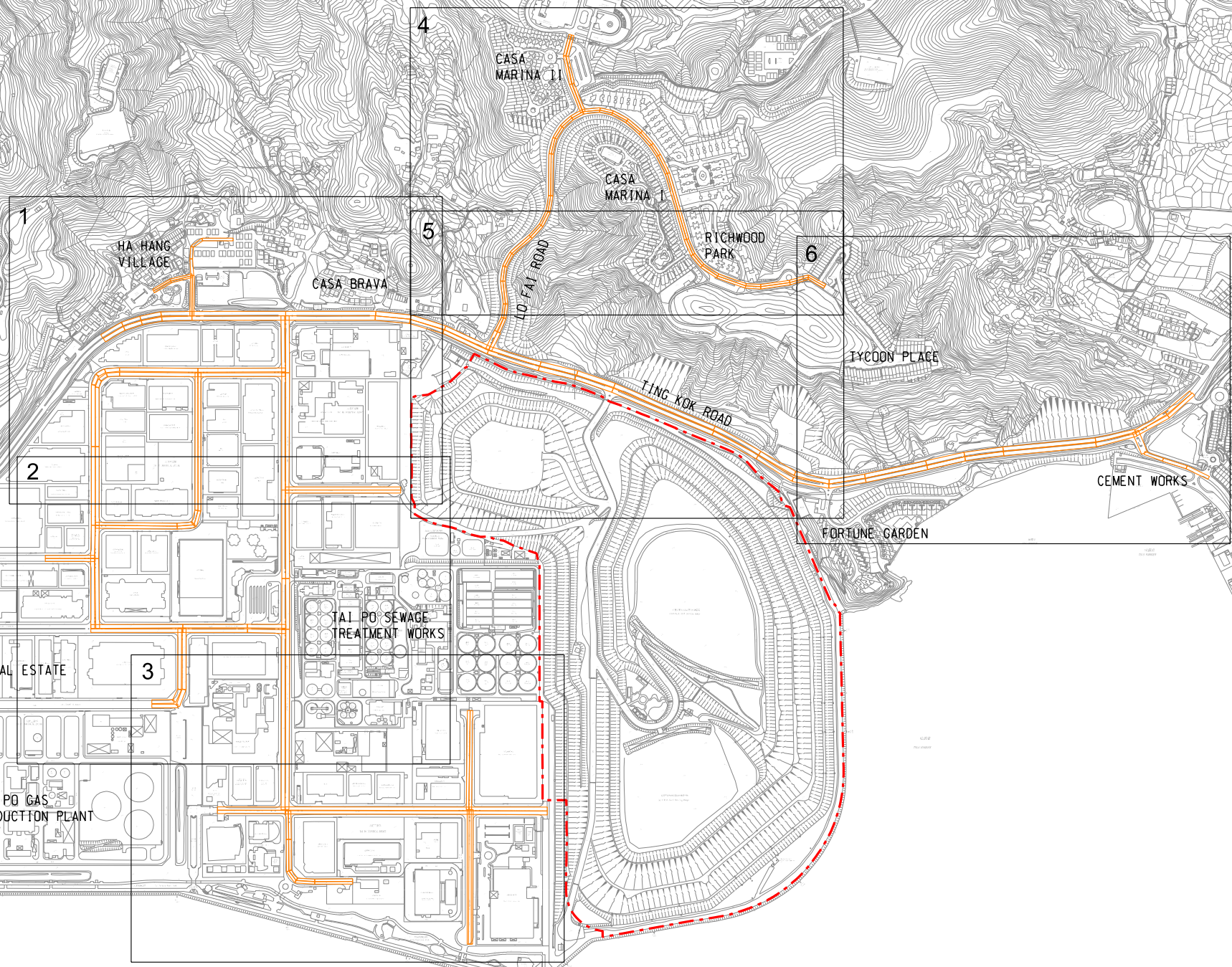
Road ID	Road Type	Speed Limit (km/hr)	Average Speed (km/hr)	Start Emission Estimated by Broad Brush Approach (Y/N)	Hour	Total Vehicles (Veh/hr)	01 - Private Cars	02 - Taxi	03 - Light Goods Vehicles <=2.5t	04 - Light Goods Vehicles 2.5-3.5t	05 - Light Goods Vehicles >3.5t	06 - Medium Goods Vehicles <=3.5t	07 - Medium Goods Vehicles 3.5-5.24t	08 - Public Light Buses	09 - Private Light Bus <=3.5t	10 - Private Light Bus >3.5t	11 - Non-franchised Bus <=6.4t	12 - Non-franchised Bus 6.4-15t	13 - Non-franchised Bus 15-24t	14 - Franchised Bus Single Deck	15 - Franchised Bus Double Deck	16 - Motorcycles	17 - Heavy Goods Vehicles >24t	18 - Non-franchised Bus >24t	Total
							PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9	
128	LD	50	36	Y	0500-0600	35	26%	29%	0%	0%	0%	14%	0%	0%	0%	0%	0%	0%	9%	0%	23%	0%	0%	0%	100%
128	LD	50	33	Y	0600-0700	180	27%	4%	0%	14%	4%	27%	0%	0%	0%	0%	0%	0%	9%	0%	14%	0%	0%	0%	100%
128	LD	50	31	Y	0700-0800	205	32%	14%	6%	4%	6%	18%	0%	0%	0%	0%	0%	0%	6%	0%	12%	2%	0%	0%	100%
128	LD	50	33	Y	0800-0900	105	15%	28%	4%	4%	0%	19%	4%	0%	0%	0%	0%	0%	8%	0%	15%	4%	0%	0%	100%
128	LD	50	32	Y	0900-1000	100	10%	33%	0%	8%	0%	25%	8%	0%	0%	0%	0%	0%	8%	0%	8%	0%	0%	0%	100%
128	LD	50	33	Y	1000-1100	115	6%	12%	3%	8%	3%	23%	2%	0%	0%	0%	0%	3%	11%	0%	27%	2%	0%	0%	100%
128	LD	50	34	Y	1100-1200	135	11%	15%	3%	7%	3%	24%	1%	0%	0%	0%	0%	2%	10%	0%	23%	1%	0%	0%	100%
128	LD	50	31	Y	1200-1300	120	17%	20%	3%	4%	3%	20%	1%	0%	0%	0%	0%	3%	8%	0%	19%	2%	0%	0%	100%
128	LD	50	34	Y	1300-1400	160	19%	29%	3%	4%	3%	12%	1%	0%	0%	0%	0%	2%	4%	8%	16%	1%	0%	0%	100%
128	LD	50	33	Y	1400-1500	160	16%	26%	3%	4%	3%	15%	1%	0%	0%	0%	0%	2%	3%	8%	14%	5%	0%	0%	100%
128	LD	50	31	Y	1500-1600	240	15%	38%	7%	7%	0%	14%	0%	0%	0%	0%	0%	0%	14%	0%	7%	0%	0%	0%	100%
128	LD	50	34	Y	1600-1700	210	27%	27%	2%	2%	4%	21%	0%	0%	0%	0%	0%	2%	10%	0%	6%	0%	0%	0%	100%
128	LD	50	35	Y	1700-1800	205	13%	56%	2%	0%	4%	12%	0%	0%	0%	0%	0%	4%	4%	4%	2%	0%	0%	0%	100%
128	LD	50	33	Y	1800-1900	180	10%	59%	0%	0%	9%	9%	0%	0%	0%	0%	0%	4%	4%	4%	0%	0%	0%	0%	100%
128	LD	50	34	Y	1900-2000	140	16%	29%	3%	4%	3%	17%	1%	0%	0%	0%	0%	2%	1%	9%	14%	1%	0%	0%	100%
128	LD	50	33	Y	2000-2100	85	22%	31%	2%	5%	5%	16%	1%	0%	0%	0%	0%	0%	0%	0%	16%	1%	0%	0%	100%
128	LD	50	33	Y	2100-2200	75	19%	35%	3%	5%	0%	19%	0%	0%	0%	0%	0%	0%	0%	0%	19%	1%	0%	0%	100%
128	LD	50	34	Y	2200-2300	65	23%	35%	3%	6%	0%	14%	0%	0%	0%	0%	0%	0%	0%	0%	17%	2%	0%	0%	100%
128	LD	50	35	Y	2300-0000	50	26%	30%	4%	4%	0%	18%	0%	0%	0%	0%	0%	0%	0%	0%	16%	2%	0%	0%	100%
130	LD	50	39	Y	0000-0100	35	23%	51%	3%	3%	0%	0%	3%	0%	0%	0%	0%	0%	0%	11%	0%	6%	0%	0%	100%
130	LD	50	37	Y	0100-0200	25	28%	44%	0%	4%	0%	0%	4%	0%	0%	0%	0%	0%	0%	16%	0%	4%	0%	0%	100%
130	LD	50	39	Y	0200-0300	10	30%	60%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	100%
130	LD	50	42	Y	0300-0400	10	30%	60%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	100%
130	LD	50	41	Y	0400-0500	10	30%	60%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	100%
130	LD	50	37	Y	0500-0600	25	32%	40%	0%	0%	0%	4%	4%	0%	0%	0%	0%	4%	8%	0%	8%	0%	0%	0%	100%
130	LD	50	33	Y	0600-0700	100	16%	36%	5%	25%	0%	4%	2%	0%	0%	0%	0%	0%	5%	0%	7%	0%	0%	0%	100%
130	LD	50	33	Y	0700-0800	100	12%	23%	12%	0%	14%	23%	3%	0%	0%	0%	0%	0%	1%	0%	11%	1%	0%	0%	100%
130	LD	50	34	Y	0800-0900	165	7%	41%	3%	5%	33%	1%	2%	0%	0%	0%	0%	0%	5%	0%	1%	0%	1%	0%	100%
130	LD	50	34	Y	0900-1000	150	7%	55%	3%	6%	15%	5%	3%	0%	0%	0%	0%	0%	5%	0%	0%	0%	0%	0%	100%
130	LD	50	33	Y	1000-1100	105	9%	53%	2%	3%	13%	1%	2%	0%	0%	0%	0%	0%	9%	0%	6%	2%	1%	0%	100%
130	LD	50	34	Y	1100-1200	105	14%	53%	2%	3%	8%	0%	2%	0%	0%	0%	0%	0%	9%	0%	6%	2%	2%	0%	100%
130	LD	50	34	Y	1200-1300	100	27%	44%	2%	2%	9%	0%	1%	0%	0%	0%	0%	0%	7%	0%	4%	2%	2%	0%	100%
130	LD	50	32	Y	1300-1400	100	37%	44%	2%	2%	4%	0%	1%	0%	0%	0%	0%	0%	2%	0%	5%	2%	1%	0%	100%
130	LD	50	33	Y	1400-1500	95	36%	43%	2%	2%	3%	2%	1%	0%	0%	0%	0%	0%	2%	0%	4%	2%	2%	0%	100%
130	LD	50	33	Y	1500-1600	155	25%	29%	9%	3%	4%	3%	0%	0%	0%	0%	0%	0%	21%	0%	6%	0%	0%	0%	100%
130	LD	50	32	Y	1600-1700	165	36%	21%	3%	3%	4%	5%	1%	0%	0%	0%	0%	1%	12%	0%	4%	10%	0%	0%	100%
130	LD	50	34	Y	1700-1800	160	28%	47%	0%	3%	1%	5%	1%	0%	0%	0%	0%	5%	1%	0%	4%	3%	1%	0%	100%
130	LD	50	33	Y	1800-1900	155	23%	53%	0%	1%	2%	1%	1%	0%	0%	0%	0%	5%	6%	0%	3%	3%	2%	0%	100%
130	LD	50	32	Y	1900-2000	80	24%	48%	3%	3%	3%	1%	1%	0%	0%	0%	0%	0%	10%	0%	5%	3%	1%	0%	100%
130	LD	50	33	Y	2000-2100	55	24%	49%	2%	4%	2%	0%	2%	0%	0%	0%	0%	0%	9%	0%	5%	4%	0%	0%	100%
130	LD	50	35	Y	2100-2200	55	25%	49%	2%	4%	0%	0%	2%	0%	0%	0%	0%	0%	9%	0%	5%	4%	0%	0%	100%
130	LD	50	36	Y	2200-2300	45	22%	51%	2%	4%	0%	0%	2%	0%	0%	0%	0%	0%	9%	0%	4%	4%	0%	0%	100%
130	LD	50	38	Y	2300-0000	30	23%	50%	3%	3%	0%	0%	3%	0%	0%	0%	0%	0%	10%	0%	7%	0%	0%	0%	100%
148	LD	50	31	Y	0000-0100	55	38%	38%	4%	4%	0%	4%	2%	0%	0%	0%	0%	0%	7%	0%	4%	0%	0%	0%	100%
148	LD	50	32	Y	0100-0200	35	34%	37%	0%	6%	0%	6%	3%	0%	0%	0%	0%	0%	11%	0%	3%	0%	0%	0%	100%
148	LD	50	32	Y	0200-0300	20	35%	35%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	15%	0%	5%	0%	0%	0%	100%
148	LD	50	32	Y	0300-0400	20	35%	35%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	15%	0%	5%	0%	0%	0%	100%
148	LD	50	32	Y	0400-0500	15	47%	47%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%	0%	0%	0%	100%
148	LD	50	30	Y	0500-0600	35	34%	31%	0%	0%	0%	11%	3%	0%	0%	0%	0%	3%	11%	0%	6%	0%	0%	0%	100%
148	LD	50	27	Y	0600-0700	160	23%	26%	6%	4%	9%	5%	1%	0%	1%	1%	0%	1%	20%	0%	4%	0%	0%	0%	100%
148	LD	50	25	Y	0700-0800	195	19%	26%	0%	3%	15%	8%	2%	0%	1%	1%	0%	1%	17%	0%	6%	2%	0%	0%	100%
148	LD	50	25	Y	0800-0900	215	10%	36%	3%	5%	27%	12%	2%	0%	0%	0%	0%	2%	0%	1%	0%	1%	0%	0%	100%
148	LD	50	27	Y	0900-1000	180	8%	48%	3%	8%	15%	16%	3%	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	100%
148	LD	50	27	Y	1000-1100	165	8%	39%	2%	5%	12%	12%	2%	0%	1%	0%	0%	1%	10%	0%	4%	2%	1%	0%	100%
148	LD	50	28	Y	1100-1200	160	13%	41%	3%	6%	8%	9%	2%	0%	1%	0%	0%	1%	11%	0%	4%	3%	1%	0%	100%
148	LD	50	26	Y	1200-1300	145	23%	36%	3%	4%	9%	6%	1%	0%	1%	0%	0%	1%	8%	0%	3%	3%	1%	0%	100%
148	LD	50	27	Y	1300-1400	155	31%	34%	3%	5%	5%	6%	1%	0%	1%	0%	0%	1%	8%	0%	3%	3%	1%	0%	100%
148	LD	50	27	Y	1400-1500	145	31%	32%	3%	5%	5%	8%	1%	0%	1%	0%	0%	2%	5%	0%	3%	3%	1%	0%	100%
148	LD	50	28	Y	1500-1600	165	33%	27%	3%	8%	4%	11%	2%	0%	0%	0%	0%	0%	3%	0%	5%	3%	0%	0%	100%
148	LD	50	28	Y	1600-1700	265	46%	15%	3%	4%	3%	7%	1%	0%	0%	0%	0%	1%	10%	0%	3%	8%	0%	0%	100%
148	LD	50	24	Y	1700-1800	280	46%	31%	1%	2%	1%	4%	0%	0%	0%	0%	0%	1%	8%	0%	3%	3%	1%	0%	100%
148	LD	50	26	Y	1800-1900	220	39%	41%	0%	0%	1%	5%	1%	0%	0%	0%	0%	0%	6%	0%	2%	2%	1%	0%	100%
148	LD	50	28	Y	1900-2000	130	33%	34%	3%	5%	2%	4%	2%	0%	0%	0%	0%	2%	9%	0%	3%	3%	1%	0%	100%
148	LD	50	26	Y	2000-2100	90	34%	34%	2%	4%	2%	3%	2%	0%	0%	0%	0%	0%	9%	0%	3%	4%	0%	0%	100%
148	LD	50	26	Y	2100-2200	85	34%	36%	2%	5%	0%	4%	1%	0%											

Road ID	Road Type	Speed Limit (km/hr)	Average Speed (km/hr)	Start Emission Estimated by Broad Brush Approach (Y/N)	Hour	Total Vehicles (Veh/hr)	01 - Private Cars	02 - Taxi	03 - Light Goods Vehicles<=2.5t	04 - Light Goods Vehicles 2.5-3.5t	05 - Light Goods Vehicles>3.5t	06 - Medium Goods Vehicles<=15t	07 - Medium Goods Vehicles15-24t	08 - Public Light Buses	09 - Private Light Bus <=3.5t	10 - Private Light Bus >3.5t	11 - Non-franchised Bus<=6.4t	12 - Non-franchised Bus 6.4-15t	13 - Non-franchised Bus 15-24t	14 - Franchised Bus Single Deck	15 - Franchised Bus Double Deck	16 - Motorcycles	17 - Heavy Goods Vehicles>24t	18 - Non-franchised Bus >24t	Total	
							PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9		
152	LD	50	35	Y	0700-0800	80	23%	13%	0%	6%	38%	1%	1%	6%	0%	1%	0%	0%	4%	0%	6%	1%	0%	0%	100%	
152	LD	50	35	Y	0800-0900	165	11%	25%	1%	4%	36%	9%	2%	3%	0%	0%	0%	1%	3%	1%	3%	0%	0%	0%	100%	
152	LD	50	36	Y	0900-1000	135	10%	36%	0%	7%	20%	13%	4%	4%	0%	0%	0%	1%	0%	0%	7%	0%	0%	0%	100%	
152	LD	50	36	Y	1000-1100	100	7%	35%	2%	4%	18%	12%	2%	2%	0%	0%	0%	1%	8%	1%	5%	3%	0%	0%	100%	
152	LD	50	37	Y	1100-1200	95	13%	37%	2%	4%	12%	7%	2%	2%	0%	0%	0%	1%	8%	2%	5%	3%	1%	0%	100%	
152	LD	50	38	Y	1200-1300	90	26%	31%	2%	3%	13%	4%	1%	2%	0%	0%	0%	1%	7%	0%	4%	3%	1%	0%	100%	
152	LD	50	36	Y	1300-1400	90	32%	31%	2%	3%	8%	4%	1%	1%	0%	0%	0%	1%	7%	1%	4%	3%	0%	0%	100%	
152	LD	50	36	Y	1400-1500	85	32%	31%	2%	4%	7%	8%	1%	1%	0%	0%	0%	2%	1%	1%	5%	4%	1%	0%	100%	
152	LD	50	35	Y	1500-1600	110	47%	32%	0%	3%	2%	1%	0%	0%	0%	0%	0%	0%	5%	5%	2%	5%	0%	0%	100%	
152	LD	50	32	Y	1600-1700	175	46%	13%	2%	3%	2%	10%	1%	0%	0%	0%	0%	0%	8%	0%	4%	10%	0%	0%	100%	
152	LD	50	34	Y	1700-1800	145	34%	41%	1%	1%	3%	8%	1%	2%	0%	0%	0%	0%	3%	0%	5%	1%	1%	0%	100%	
152	LD	50	35	Y	1800-1900	135	30%	44%	0%	1%	2%	7%	1%	0%	0%	0%	0%	1%	6%	0%	4%	4%	0%	0%	100%	
152	LD	50	35	Y	1900-2000	75	36%	32%	3%	4%	3%	0%	1%	3%	0%	0%	0%	1%	8%	1%	4%	4%	0%	0%	100%	
152	LD	50	36	Y	2000-2100	50	36%	34%	2%	4%	2%	0%	2%	2%	0%	0%	0%	0%	8%	0%	4%	6%	0%	0%	100%	
152	LD	50	38	Y	2100-2200	45	33%	38%	2%	4%	0%	0%	2%	0%	0%	0%	0%	0%	9%	0%	4%	7%	0%	0%	100%	
152	LD	50	37	Y	2200-2300	40	35%	35%	3%	5%	0%	0%	3%	0%	0%	0%	0%	0%	8%	0%	5%	8%	0%	0%	100%	
152	LD	50	37	Y	2300-0000	30	47%	30%	3%	3%	0%	0%	3%	3%	0%	0%	0%	0%	7%	0%	3%	0%	0%	0%	100%	
154	LD	50	35	Y	0000-0100	15	73%	20%	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	
154	LD	50	32	Y	0100-0200	10	70%	20%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	
154	LD	50	33	Y	0200-0300	10	70%	20%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	
154	LD	50	35	Y	0300-0400	5	40%	20%	0%	0%	0%	40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	
154	LD	50	33	Y	0400-0500	10	10%	10%	0%	0%	0%	20%	0%	0%	0%	0%	0%	60%	0%	0%	0%	0%	0%	0%	100%	
154	LD	50	32	Y	0500-0600	35	46%	9%	6%	3%	3%	9%	3%	0%	0%	0%	0%	14%	9%	0%	0%	0%	0%	0%	100%	
154	LD	50	29	Y	0600-0700	145	57%	2%	6%	1%	6%	12%	1%	0%	0%	0%	0%	5%	10%	0%	0%	1%	0%	0%	100%	
154	LD	50	28	Y	0700-0800	190	37%	5%	4%	5%	3%	18%	3%	0%	0%	0%	0%	5%	19%	0%	0%	1%	1%	0%	100%	
154	LD	50	31	Y	0800-0900	185	24%	5%	5%	6%	21%	16%	4%	0%	0%	0%	0%	5%	10%	0%	1%	1%	2%	0%	100%	
154	LD	50	28	Y	0900-1000	160	26%	6%	8%	8%	11%	21%	6%	0%	0%	0%	0%	5%	6%	0%	0%	0%	4%	0%	100%	
154	LD	50	29	Y	1000-1100	155	30%	6%	7%	5%	8%	20%	5%	0%	0%	0%	0%	3%	5%	0%	1%	10%	2%	0%	100%	
154	LD	50	29	Y	1100-1200	130	34%	8%	7%	2%	13%	20%	3%	0%	0%	0%	0%	2%	3%	0%	1%	6%	2%	0%	100%	
154	LD	50	28	Y	1200-1300	125	22%	10%	8%	2%	18%	18%	6%	0%	0%	2%	0%	2%	6%	0%	0%	3%	3%	0%	100%	
154	LD	50	31	Y	1300-1400	105	24%	10%	8%	2%	12%	19%	7%	0%	0%	0%	0%	5%	5%	0%	1%	6%	3%	0%	100%	
154	LD	50	30	Y	1400-1500	125	43%	7%	6%	2%	6%	16%	4%	0%	0%	0%	0%	4%	5%	0%	0%	3%	3%	0%	100%	
154	LD	50	31	Y	1500-1600	135	33%	10%	4%	3%	9%	20%	0%	0%	0%	1%	0%	7%	10%	0%	0%	1%	0%	0%	100%	
154	LD	50	30	Y	1600-1700	210	50%	10%	3%	4%	0%	6%	1%	0%	0%	0%	0%	9%	11%	0%	0%	5%	0%	0%	100%	
154	LD	50	32	Y	1700-1800	180	55%	9%	7%	2%	3%	5%	0%	0%	0%	0%	0%	6%	11%	0%	0%	3%	0%	0%	100%	
154	LD	50	30	Y	1800-1900	105	54%	10%	10%	2%	4%	8%	0%	0%	0%	0%	0%	10%	4%	0%	0%	0%	0%	0%	100%	
154	LD	50	32	Y	1900-2000	50	30%	16%	4%	4%	10%	16%	0%	0%	0%	0%	2%	12%	2%	0%	0%	4%	0%	0%	100%	
154	LD	50	34	Y	2000-2100	35	49%	9%	3%	3%	3%	9%	3%	0%	0%	0%	0%	6%	14%	0%	3%	0%	0%	0%	100%	
154	LD	50	33	Y	2100-2200	30	43%	23%	0%	0%	13%	10%	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	100%	
154	LD	50	32	Y	2200-2300	35	31%	9%	0%	6%	17%	9%	6%	0%	0%	0%	0%	11%	11%	0%	0%	0%	0%	0%	100%	
154	LD	50	32	Y	2300-0000	20	60%	10%	0%	0%	0%	10%	5%	0%	0%	0%	0%	5%	10%	0%	0%	0%	0%	0%	100%	
153	LD	50	31	Y	0000-0100	30	37%	3%	7%	7%	33%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	3%	0%	0%	100%	
153	LD	50	33	Y	0100-0200	15	13%	7%	13%	7%	33%	7%	0%	0%	0%	0%	0%	0%	13%	0%	0%	7%	0%	0%	100%	
153	LD	50	33	Y	0200-0300	10	20%	20%	0%	0%	50%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
153	LD	50	30	Y	0300-0400	10	50%	0%	20%	0%	0%	30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
153	LD	50	35	Y	0400-0500	20	45%	25%	10%	0%	0%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
153	LD	50	33	Y	0500-0600	55	24%	18%	5%	0%	13%	20%	7%	0%	0%	0%	0%	4%	7%	0%	0%	2%	0%	0%	100%	
153	LD	50	30	Y	0600-0700	135	32%	21%	0%	2%	10%	4%	4%	0%	0%	0%	0%	9%	10%	0%	0%	3%	3%	0%	100%	
153	LD	50	26	Y	0700-0800	245	42%	23%	4%	2%	7%	9%	2%	0%	0%	0%	0%	2%	4%	0%	0%	4%	1%	0%	100%	
153	LD	50	25	Y	0800-0900	240	29%	32%	4%	3%	3%	14%	3%	0%	0%	0%	0%	5%	3%	0%	0%	2%	0%	0%	100%	
153	LD	50	28	Y	0900-1000	225	25%	37%	5%	2%	2%	13%	4%	0%	0%	0%	0%	8%	2%	0%	1%	2%	1%	0%	100%	
153	LD	50	29	Y	1000-1100	165	27%	18%	10%	3%	7%	15%	3%	0%	0%	0%	0%	3%	6%	0%	0%	7%	1%	0%	100%	
153	LD	50	31	Y	1100-1200	110	29%	22%	3%	5%	12%	14%	2%	0%	0%	1%	0%	1%	5%	0%	0%	5%	2%	0%	100%	
153	LD	50	31	Y	1200-1300	170	30%	23%	7%	5%	11%	14%	4%	0%	0%	0%	0%	2%	1%	0%	0%	2%	1%	0%	100%	
153	LD	50	29	Y	1300-1400	130	25%	7%	10%	5%	13%	19%	4%	0%	0%	0%	0%	5%	8%	0%	0%	2%	2%	0%	100%	
153	LD	50	29	Y	1400-1500	165	26%	18%	8%	4%	13%	15%	2%	0%	0%	0%	0%	5%	8%	0%	0%	1%	1%	0%	100%	
153	LD	50	28	Y	1500-1600	165	24%	7%	5%	5%	7%	20%	4%	0%	0%	1%	0%	4%	20%	0%	0%	2%	1%	0%	100%	
153	LD	50	27	Y	1600-1700	160	28%	8%	3%	3%	2%	14%	0%	0%	0%	1%	1%	11%	27%	0%	1%	3%	1%	0%	100%	
153	LD	50	31	Y	1700-1800	90	38%	9%	6%	1%	3%	11%	2%	0%	0%	0%	0%	10%	14%	0%	0%	2%	3%	0%	100%	
153	LD	50	31	Y	1800-1900	75	36%	13%	3%	3%	5%	16%	3%	0%	0%	0%	0%	11%	5%	0%	0%	3%	3%	0%	100%	
153	LD	50	31	Y	1900-2000	45	42%	20%	7%	0%	0%	16%	0%	0%	0%	0%	0%	9%	0%	0%	2%	4%	0%	0%	100%	
153	LD	50	31	Y	2000-2100	30	33%	27%	0%	3%	7%	7%	0%	0%	0%	0%	0%	7%	13%	0%	3%	0%	0%	0%	100%	
153	LD	50	31	Y	2100-2200	50	42%	34%	4%	2%	6%	6%	0%	0%	0%	0%	0%	6%	0%	0%	0%	0%	0%	0%	100%	
153	LD	50	32	Y	2200-2300	30	27%	3%	0%	10%	20%	10%	3%	0%	0%	0%	0%	13%	13%	0%	0%	0%	0%	0%	100%	
153	LD	50	34	Y	2300-0000	15	60%	20%	0%	0%	0%	7%	0%													

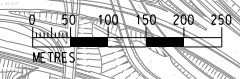
Road ID	Road Type	Speed Limit (km/hr)	Average Speed (km/hr)	Start Emission Estimated by Broad Brush Approach (Y/N)	Hour	Total Vehicles (Veh/hr)	01 - Private Cars	02 - Taxi	03 - Light Goods Vehicles<=2.5t	04 - Light Goods Vehicles 2.5-3.5t	05 - Light Goods Vehicles>3.5t	06 - Medium Goods Vehicles<=3.5t	07 - Medium Goods Vehicles>3.5t	08 - Public Light Buses	09 - Private Light Bus <=3.5t	10 - Private Light Bus >3.5t	11 - Non-franchised Bus<=6.4t	12 - Non-franchised Bus 6.4-15t	13 - Non-franchised Bus 15-24t	14 - Franchised Bus Single Deck	15 - Franchised Bus Double Deck	16 - Motorcycles	17 - Heavy Goods Vehicles>24t	18 - Non-franchised Bus >24t	Total
							PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9	
166	LD	50	21	Y	1100-1200	50	40%	18%	4%	8%	2%	6%	0%	0%	0%	0%	0%	4%	6%	0%	6%	6%	0%	0%	100%
166	LD	50	18	Y	1200-1300	70	46%	26%	3%	4%	1%	3%	3%	0%	0%	0%	0%	4%	3%	1%	6%	0%	0%	0%	100%
166	LD	50	22	Y	1300-1400	50	42%	20%	2%	8%	4%	4%	2%	0%	0%	0%	0%	4%	4%	2%	6%	2%	0%	0%	100%
166	LD	50	22	Y	1400-1500	55	47%	13%	4%	5%	2%	2%	5%	0%	0%	0%	0%	7%	7%	0%	7%	0%	0%	0%	100%
166	LD	50	21	Y	1500-1600	90	46%	19%	4%	4%	4%	4%	2%	0%	0%	0%	0%	4%	2%	4%	0%	4%	0%	0%	100%
166	LD	50	19	Y	1600-1700	95	58%	7%	4%	2%	2%	2%	1%	0%	0%	0%	0%	7%	11%	0%	5%	0%	0%	0%	100%
166	LD	50	23	Y	1700-1800	90	62%	9%	1%	1%	0%	1%	0%	0%	0%	0%	0%	8%	11%	0%	3%	3%	0%	0%	100%
166	LD	50	24	Y	1800-1900	30	47%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	13%	0%	0%	13%	7%	0%	0%	100%
166	LD	50	25	Y	1900-2000	20	40%	25%	0%	5%	0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	20%	0%	0%	0%	100%
166	LD	50	27	Y	2000-2100	25	52%	16%	0%	4%	4%	4%	0%	0%	0%	0%	0%	4%	4%	0%	12%	0%	0%	0%	100%
166	LD	50	27	Y	2100-2200	15	40%	33%	0%	7%	7%	7%	0%	0%	0%	0%	0%	7%	0%	0%	0%	0%	0%	0%	100%
166	LD	50	26	Y	2200-2300	10	60%	20%	0%	10%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
166	LD	50	28	Y	2300-0000	5	80%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
162	LD	50	24	Y	0000-0100	10	80%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
162	LD	50	28	Y	0100-0200	5	80%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
162	LD	50	27	Y	0200-0300	5	80%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
162	LD	50	29	Y	0300-0400	5	80%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
162	LD	50	25	Y	0400-0500	10	80%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
162	LD	50	24	Y	0500-0600	25	60%	12%	0%	0%	12%	4%	4%	0%	0%	0%	0%	4%	4%	0%	0%	0%	0%	0%	100%
162	LD	50	22	Y	0600-0700	50	18%	26%	0%	8%	8%	10%	0%	0%	0%	0%	0%	6%	12%	0%	12%	0%	0%	0%	100%
162	LD	50	19	Y	0700-0800	120	32%	30%	0%	3%	1%	13%	2%	0%	0%	0%	0%	7%	7%	0%	7%	0%	0%	0%	100%
162	LD	50	19	Y	0800-0900	145	18%	41%	1%	6%	1%	6%	1%	0%	0%	0%	0%	8%	12%	3%	3%	0%	0%	0%	100%
162	LD	50	19	Y	0900-1000	135	23%	39%	0%	6%	0%	7%	0%	0%	0%	0%	0%	13%	7%	0%	6%	0%	0%	0%	100%
162	LD	50	20	Y	1000-1100	80	29%	18%	4%	10%	1%	11%	1%	0%	0%	0%	0%	3%	5%	5%	10%	4%	0%	0%	100%
162	LD	50	21	Y	1100-1200	80	41%	19%	4%	9%	1%	4%	0%	0%	0%	0%	0%	4%	6%	0%	8%	5%	0%	0%	100%
162	LD	50	20	Y	1200-1300	115	43%	28%	3%	4%	1%	3%	3%	0%	0%	0%	0%	4%	3%	2%	7%	0%	0%	0%	100%
162	LD	50	21	Y	1300-1400	85	38%	24%	1%	9%	4%	5%	1%	0%	0%	0%	0%	5%	4%	2%	7%	1%	0%	0%	100%
162	LD	50	20	Y	1400-1500	90	43%	13%	3%	6%	2%	3%	4%	0%	0%	0%	0%	8%	8%	0%	9%	0%	0%	0%	100%
162	LD	50	21	Y	1500-1600	150	49%	17%	4%	4%	4%	4%	1%	0%	0%	0%	0%	4%	3%	5%	0%	5%	0%	0%	100%
162	LD	50	19	Y	1600-1700	175	57%	7%	3%	2%	2%	3%	1%	0%	0%	0%	0%	7%	12%	0%	6%	0%	0%	0%	100%
162	LD	50	17	Y	1700-1800	130	56%	12%	1%	1%	1%	2%	0%	0%	0%	0%	0%	8%	12%	0%	5%	3%	0%	0%	100%
162	LD	50	23	Y	1800-1900	45	29%	27%	0%	0%	2%	2%	0%	0%	0%	0%	0%	18%	0%	0%	18%	4%	0%	0%	100%
162	LD	50	25	Y	1900-2000	35	37%	26%	0%	3%	0%	0%	0%	0%	0%	0%	0%	11%	0%	0%	23%	0%	0%	0%	100%
162	LD	50	22	Y	2000-2100	35	43%	20%	0%	3%	3%	3%	0%	0%	0%	0%	0%	6%	6%	0%	17%	0%	0%	0%	100%
162	LD	50	26	Y	2100-2200	25	44%	36%	0%	4%	4%	4%	0%	0%	0%	0%	0%	8%	0%	0%	0%	0%	0%	0%	100%
162	LD	50	26	Y	2200-2300	15	67%	20%	0%	7%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
162	LD	50	27	Y	2300-0000	5	60%	40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
158	LD	50	29	Y	0000-0100	0	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
158	LD	50	27	Y	0100-0200	0	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
158	LD	50	27	Y	0200-0300	0	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
158	LD	50	28	Y	0300-0400	0	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
158	LD	50	25	Y	0400-0500	5	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
158	LD	50	27	Y	0500-0600	5	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
158	LD	50	26	Y	0600-0700	5	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
158	LD	50	25	Y	0700-0800	5	40%	40%	0%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
158	LD	50	25	Y	0800-0900	20	60%	25%	5%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
158	LD	50	23	Y	0900-1000	20	50%	30%	10%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
158	LD	50	25	Y	1000-1100	10	50%	20%	10%	10%	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
158	LD	50	24	Y	1100-1200	10	70%	20%	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
158	LD	50	24	Y	1200-1300	15	53%	27%	7%	7%	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
158	LD	50	26	Y	1300-1400	10	60%	20%	0%	10%	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
158	LD	50	25	Y	1400-1500	10	50%	20%	10%	10%	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
158	LD	50	25	Y	1500-1600	10	20%	60%	0%	0%	0%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
158	LD	50	24	Y	1600-1700	10	30%	30%	0%	0%	20%	10%	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	100%
158	LD	50	26	Y	1700-1800	10	60%	30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	100%
158	LD	50	26	Y	1800-1900	5	60%	40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
158	LD	50	26	Y	1900-2000	5	80%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
158	LD	50	26	Y	2000-2100	5	80%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
158	LD	50	26	Y	2100-2200	5	80%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
158	LD	50	26	Y	2200-2300	5	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
158	LD	50	27	Y	2300-0000	0	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
201	RR	50	27	Y	0000-0100	15	47%	53%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
201	RR	50	26	Y	0100-0200	10	50%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
201	RR	50	26	Y	0200-0300	5	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
201	RR	50	26	Y	0300-0400	5	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
201	RR	50	29	Y	04																				

Road ID	Road Type	Speed Limit (km/hr)	Average Speed (km/hr)	Start Emission Estimated by Broad Brush Approach (Y/N)	Hour	Total Vehicles (Veh/hr)	01 - Private Cars	02 - Taxi	03 - Light Goods Vehicles <=2.5t	04 - Light Goods Vehicles 2.5-3.5t	05 - Light Goods Vehicles >3.5t	06 - Medium Goods Vehicles <=15t	07 - Medium Goods Vehicles 15-24t	08 - Public Light Buses	09 - Private Light Bus <=3.5t	10 - Private Light Bus >3.5t	11 - Non-franchised Bus <=6.4t	12 - Non-franchised Bus 6.4-15t	13 - Non-franchised Bus 15-24t	14 - Franchised Bus Single Deck	15 - Franchised Bus Double Deck	16 - Motorcycles	17 - Heavy Goods Vehicles >24t	18 - Non-franchised Bus >24t	Total	
							PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9		
201	RR	50	21	Y	1300-1400	55	44%	13%	13%	24%	2%	4%	0%	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
201	RR	50	22	Y	1400-1500	45	53%	16%	13%	18%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
201	RR	50	21	Y	1500-1600	60	57%	7%	0%	17%	7%	0%	10%	0%	0%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
201	RR	50	17	Y	1600-1700	70	46%	14%	9%	16%	6%	1%	1%	0%	0%	3%	0%	1%	0%	0%	0%	3%	0%	0%	0%	100%
201	RR	50	18	Y	1700-1800	60	63%	18%	5%	10%	2%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
201	RR	50	20	Y	1800-1900	65	63%	18%	6%	12%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
201	RR	50	19	Y	1900-2000	65	34%	43%	12%	9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	0%	0%	0%	100%
201	RR	50	19	Y	2000-2100	60	28%	60%	3%	5%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	0%	0%	0%	100%
201	RR	50	20	Y	2100-2200	70	23%	64%	3%	4%	3%	0%	0%	0%	0%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
201	RR	50	21	Y	2200-2300	55	25%	65%	4%	4%	0%	0%	0%	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
201	RR	50	23	Y	2300-0000	45	18%	80%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%

Road extension extracted from Shuen Wan Golf Course EIA Report (AEIAR-221/2019)



Printed by : 4/16/2018
 Filename : \\HKGNTS22\EnV\project\256383\13 Drawing Deliverables\report\002 EIA\Appendix 3.8 - Traffic Forecast.dgn



LEGEND

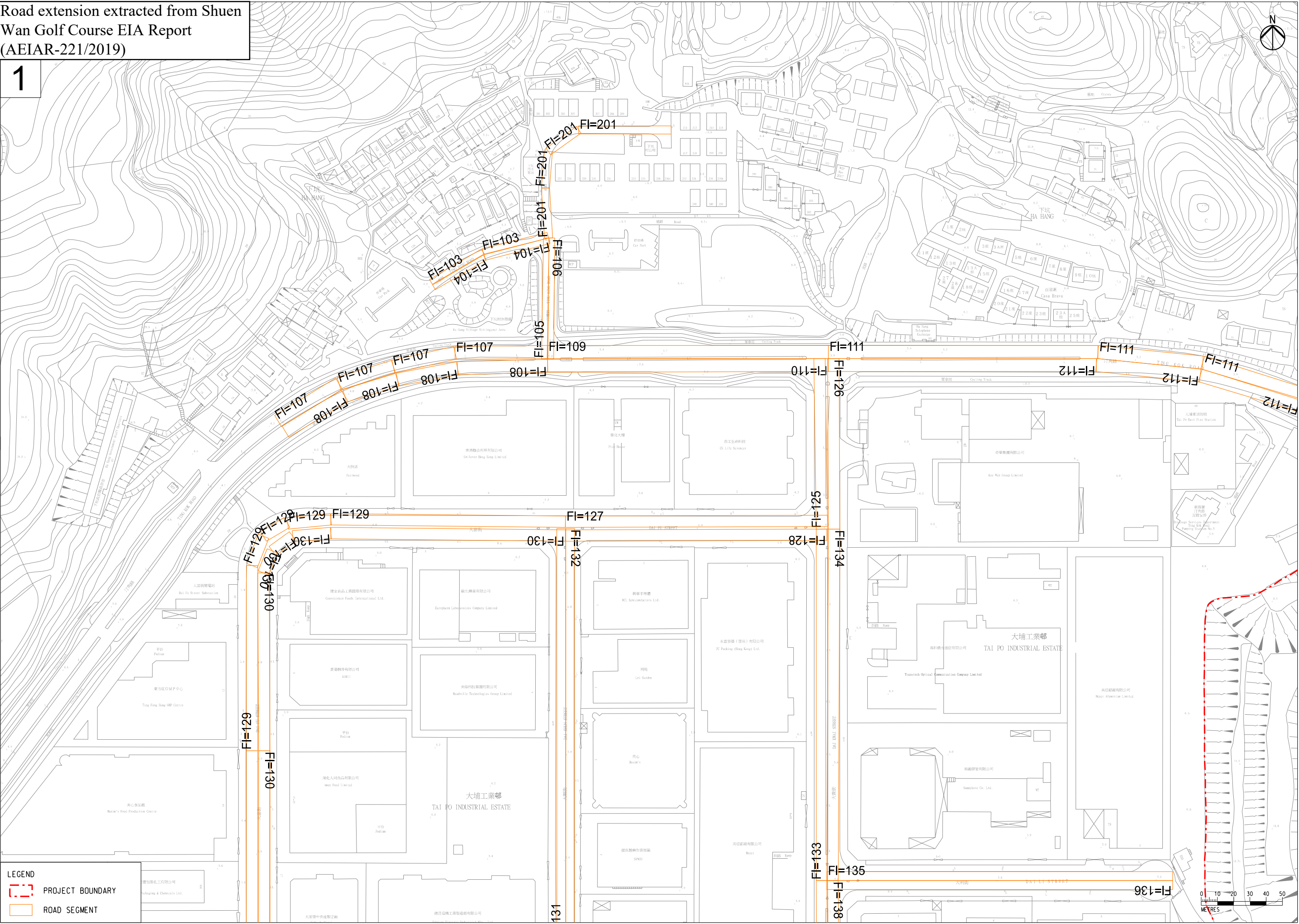
- PROJECT BOUNDARY
- ROAD SEGMENT

Road extension extracted from Shuen Wan Golf Course EIA Report (AEIAR-221/2019)

1

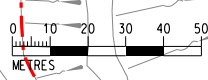


Printed by : 4/16/2018
 Filename : \\HKGNTS22\ENV\project\256383\13 Drawing Deliverables\report\002 EIA\Appendix 3.8 - Traffic Forecast_1.dgn



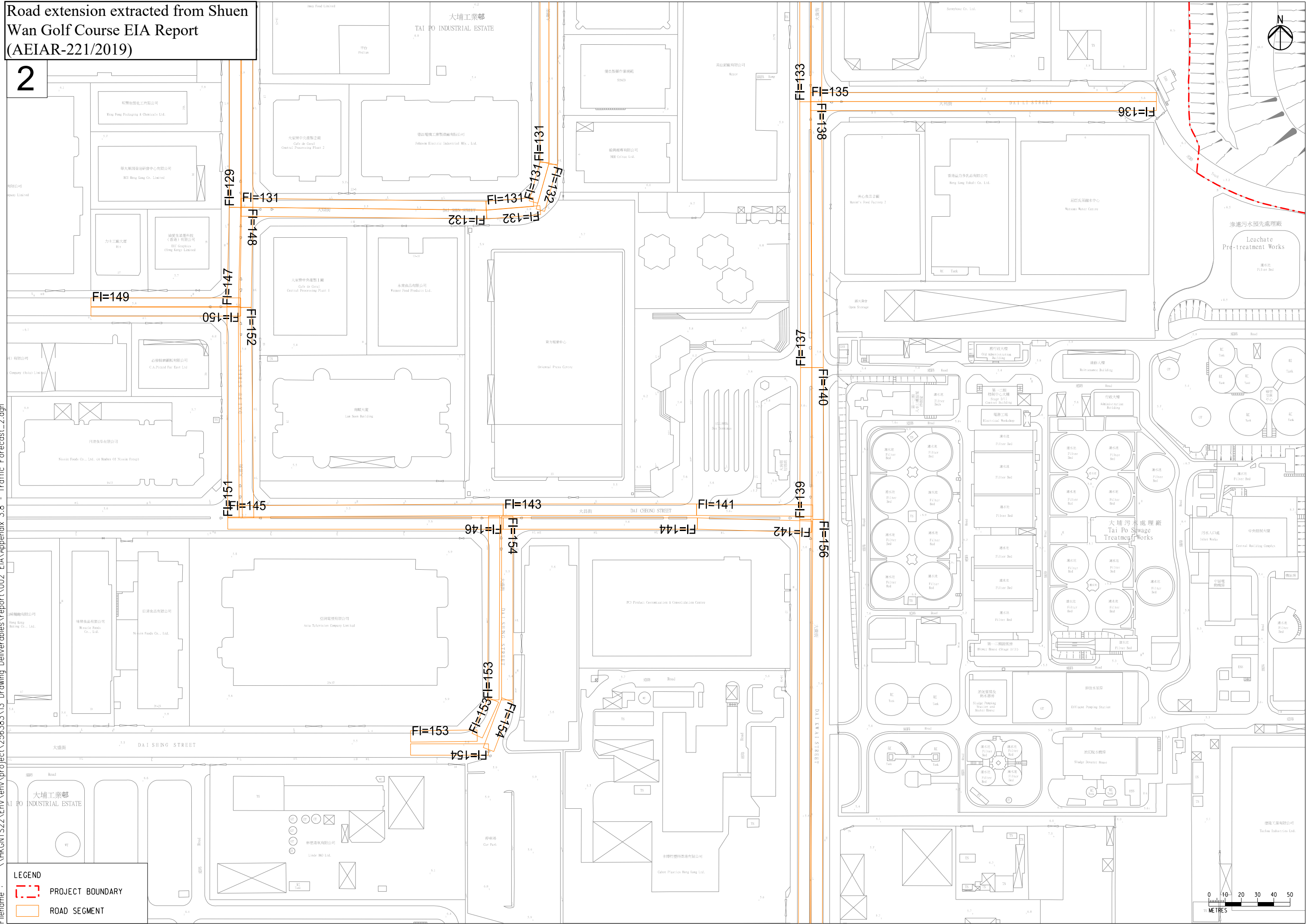
LEGEND

- PROJECT BOUNDARY
- ROAD SEGMENT



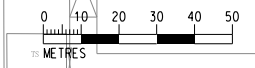
Road extension extracted from Shuen Wan Golf Course EIA Report (AEIAR-221/2019)

2



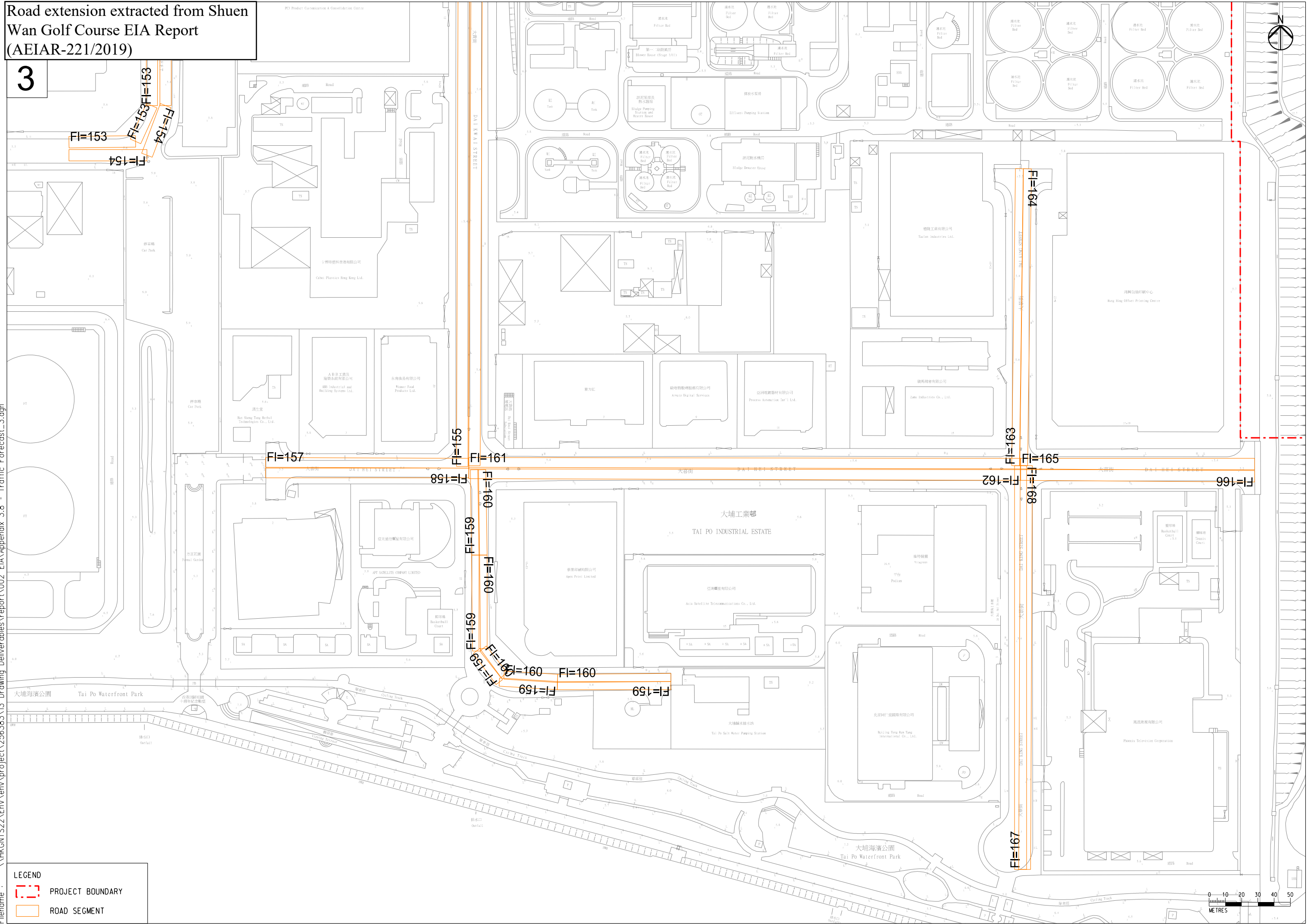
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 Filename : \\HKGNTS22\Env\env\project\256383\13 Drawing_Deliverables\report\002 EIA\Appendix 3.8 - Traffic Forecast_2.dgn

LEGEND
 PROJECT BOUNDARY
 ROAD SEGMENT



Road extension extracted from Shuen Wan Golf Course EIA Report (AEIAR-221/2019)

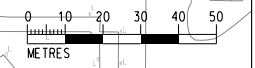
3

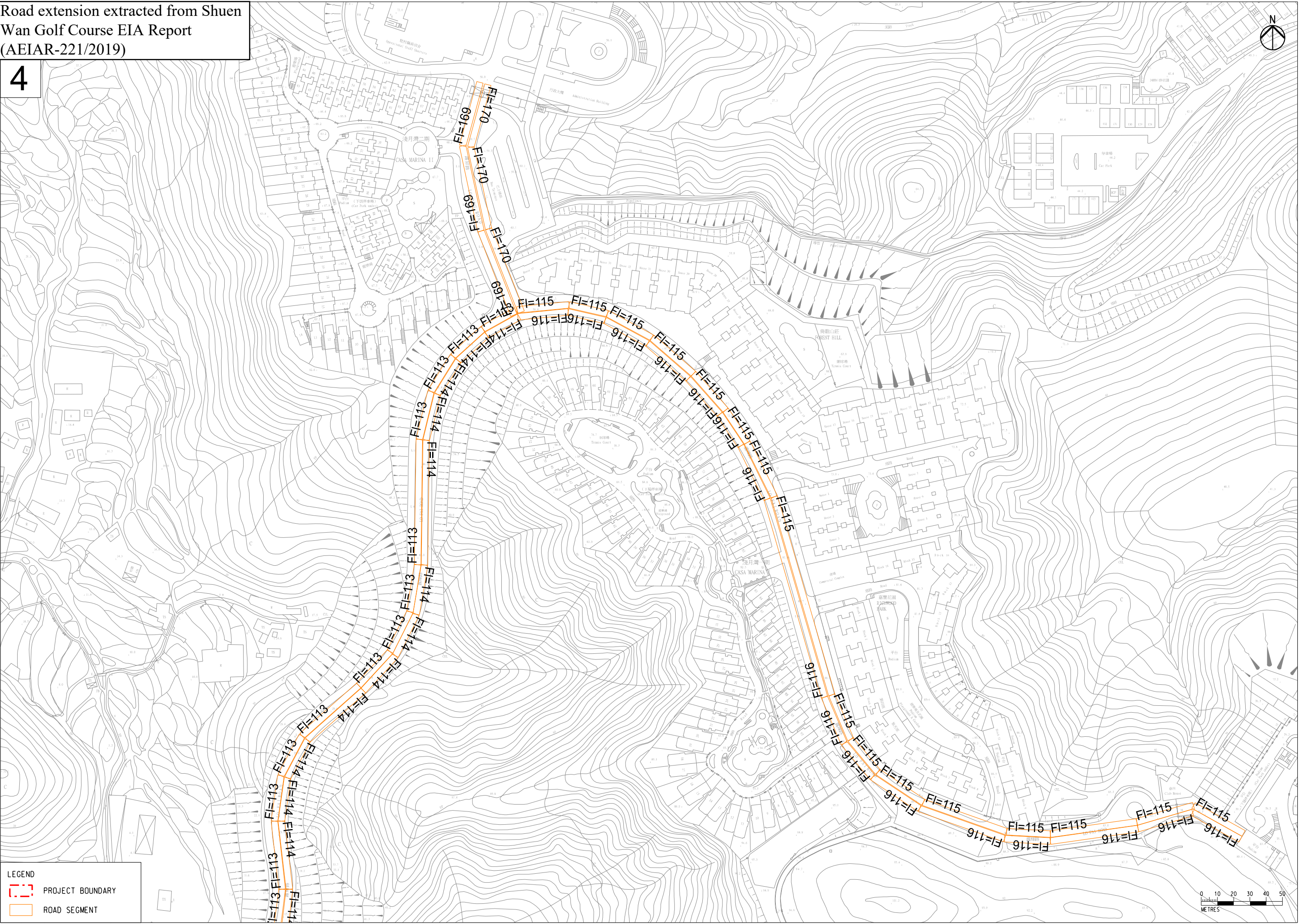


Printed by : 4/16/2018
 Filename : \\HKGNTS22\Env\project\256383\13 Drawing Deliverables\report\002 EIA\Appendix 3.8 - Traffic Forecast\3.8.dgn

LEGEND

- PROJECT BOUNDARY
- ROAD SEGMENT





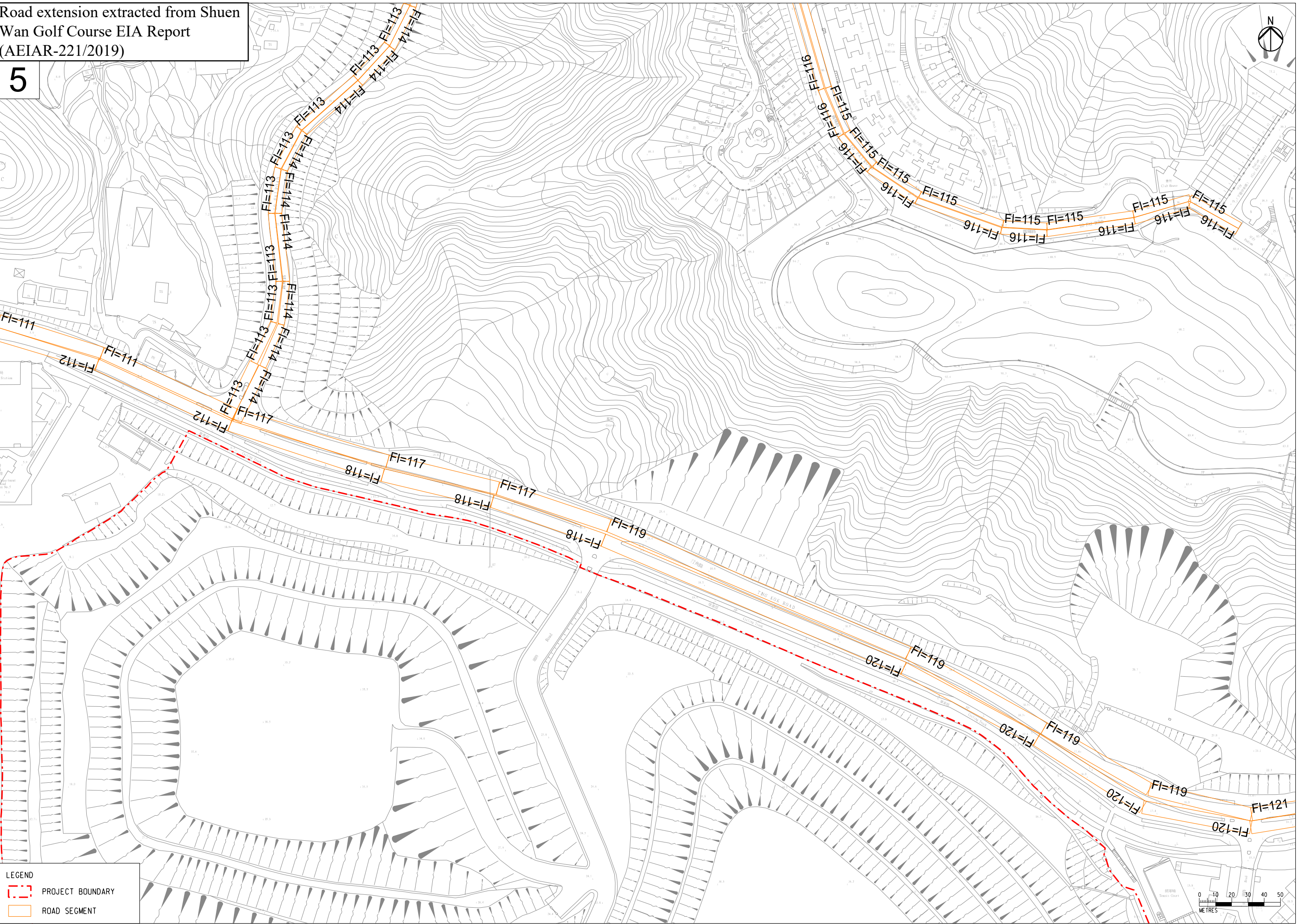
LEGEND

- PROJECT BOUNDARY
- ROAD SEGMENT





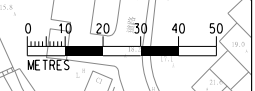


Printed by : 4/16/2018
Filename : \\HGNTS22\Env\project\256383\13 Drawing Deliverables\Report\002 EIA\Appendix 3.8 - Traffic Forecast\5.dgn



LEGEND

-  PROJECT BOUNDARY
-  ROAD SEGMENT



Annex – 2

Road Segments and
Composite Emission Factor
(January 2024)

Table 2- Road Segment

Road ID	Segment	X coordinate of endpoint	Y coordinate of endpoint	X coordinate of endpoint	Y coordinate of endpoint	Road height	Physical Road width	Road elevation	Barrier 1 width	Barrier 1 height	Barrier 1 DCL	Barrier 2 width	Barrier 2 height	Barrier 2 DCL
135136	1	837445.5	835538	837658.5	835538	0	11	5.5	0	0	0	0	0	0
149150	2	837002.8	835411.8	837095	835411.7	0	11	6	0	0	0	0	0	0
103104	3	837202.5	835905.2	837234.3	835923.7	0	7	6.5	0	0	0	0	0	0
103104	4	837234.3	835923.7	837274.1	835933.7	0	7	6.5	0	0	0	0	0	0
105106	5	837273.5	835859.1	837274.1	835933.7	0	8	6	0	0	0	0	0	0
201	6	837274.1	835933.7	837272.2	835964.5	0	5	6.5	0	0	0	0	0	0
201	7	837272.2	835964.5	837274	835987	0	5	6.5	0	0	0	0	0	0
201	8	837274	835987	837292.6	836000.3	0	5	7	0	0	0	0	0	0
201	9	837292.6	836000.3	837349.6	836000.2	0	5	7	0	0	0	0	0	0
113114	10	837821.2	835796.5	837837.4	835829.8	0	11	12.5	0	0	0	0	0	0
113114	11	837837.4	835829.8	837848.7	835855.5	0	9	15.5	0	0	0	0	0	0
113114	12	837848.7	835855.5	837852	835881.4	0	9	18	0	0	0	0	0	0
113114	13	837852	835881.4	837847.3	835923.3	0	9	21.5	0	0	0	0	0	0
113114	14	837847.3	835923.3	837851	835950.6	0	9	24.5	0	0	0	0	0	0
113114	15	837851	835950.6	837863.7	835974.5	0	9	27.5	0	0	0	0	0	0
113114	16	837863.7	835974.5	837898.2	836005.2	0	9	31	0	0	0	0	0	0
113114	17	837898.2	836005.2	837917.7	836026.2	0	9	34.5	0	0	0	0	0	0
113114	18	837917.7	836026.2	837930.2	836051.3	0	9	37	0	0	0	0	0	0
113114	19	837930.2	836051.3	837935	836081	0	9	40	0	0	0	0	0	0
113114	20	837935	836081	837936.2	836158.2	0	9	45	0	0	0	0	0	0
113114	21	837936.2	836158.2	837943.4	836187	0	9	49.5	0	0	0	0	0	0
113114	22	837943.4	836187	837956.6	836208.2	0	9	52.5	0	0	0	0	0	0
113114	23	837956.6	836208.2	837974.7	836224.6	0	9	55	0	0	0	0	0	0
113114	24	837974.7	836224.6	837994.6	836235.8	0	9	57	0	0	0	0	0	0
115116	25	837994.6	836235.8	838026.4	836239.1	0	9	60	0	0	0	0	0	0
115116	26	838026.4	836239.1	838049.4	836234	0	9	63	0	0	0	0	0	0
115116	27	838049.4	836234	838076.3	836219.4	0	9	65.5	0	0	0	0	0	0
115116	28	838076.3	836219.4	838101.7	836197.3	0	9	69	0	0	0	0	0	0
115116	29	838101.7	836197.3	838121.2	836175.1	0	9	72	0	0	0	0	0	0
115116	30	838121.2	836175.1	838134.5	836155.5	0	9	74.5	0	0	0	0	0	0
115116	31	838134.5	836155.5	838150.8	836122.2	0	9	77	0	0	0	0	0	0
115116	32	838150.8	836122.2	838185.9	836000.4	0	9	81	0	0	0	0	0	0
115116	33	838185.9	836000.4	838197.6	835972.7	0	9	85.5	0	0	0	0	0	0
115116	34	838197.6	835972.7	838214.9	835952	0	9	87	0	0	0	0	0	0
115116	35	838214.9	835952	838243.2	835932.8	0	9	88.5	0	0	0	0	0	0
115116	36	838243.2	835932.8	838295	835914.5	0	9	88.5	0	0	0	0	0	0
115116	37	838295	835914.5	838322.8	835912.9	0	9	87	0	0	0	0	0	0
115116	38	838322.8	835912.9	838376.4	835920.5	0	9	85.5	0	0	0	0	0	0
115116	39	838376.4	835920.5	838411	835930.5	0	8	84.5	0	0	0	0	0	0
115116	40	838411	835930.5	838441	835914	0	8	83	0	0	0	0	0	0
169170	41	837994.6	836235.8	837974.3	836287.3	0	10	58.5	0	0	0	0	0	0
169170	42	837974.3	836287.3	837963.3	836339	0	10	59.5	0	0	0	0	0	0
169170	43	837963.3	836339	837974	836377.5	0	10	59.5	0	0	0	0	0	0
131132	44	837284.6	835754.8	837284.2	835500	0	11	6	0	0	0	0	0	0
131132	45	837284.2	835500	837277	835474.4	0	11	6	0	0	0	0	0	0
131132	46	837277	835474.4	837246	835471.9	0	11	6	0	0	0	0	0	0
131132	47	837246	835471.9	837095	835473	0	11	6	0	0	0	0	0	0
159160	48	837445.5	834948.5	837452	834893.5	0	10	5.5	0	0	0	0	0	0
159160	49	837452	834893.5	837452.6	834842.2	0	10	5.5	0	0	0	0	0	0
159160	50	837452.6	834842.2	837465.7	834817.5	0	10	5.5	0	0	0	0	0	0
159160	51	837465.7	834817.5	837500	834815.3	0	10	5.5	0	0	0	0	0	0
159160	52	837500	834815.3	837569.9	834815.7	0	10	5.5	0	0	0	0	0	0
163164	53	837786.6	835131.2	837784.5	834948.5	0	10	5.5	0	0	0	0	0	0
159160	54	837784.5	834948.5	837785	834822.5	0	13	5.5	0	0	0	0	0	0
167168	55	837785	834822.5	837784.1	834700.1	0	13	5.5	0	0	0	0	0	0
271	56	839014	835646	839030.9	835606.4	0	12	8	0	0	0	0	0	0
271	57	839030.9	835606.4	839065	835594	0	7	7	0	0	0	0	0	0
271	58	839065	835594	839108.5	835580	0	7	6.5	0	0	0	0	0	0
271	59	839108.5	835580	839149.3	835560.5	0	7	6	0	0	0	0	0	0
107	60	837107.5	835821	837145	835844	0	8	5	0	0	0	0	0	0
107	61	837145	835844	837178.5	835854.5	0	8	5	0	0	0	0	0	0
107	62	837178.5	835854.5	837216.5	835863	0	8	5	0	0	0	0	0	0
107	63	837216.5	835863	837273.5	835863.5	0	8	5	0	0	0	0	0	0
109	64	837273.5	835863.5	837446.5	835863.5	0	8	5.5	0	0	0	0	0	0
111	65	837446.5	835863.5	837612.5	835863.5	0	8	5.5	0	0	0	0	0	0
111	66	837612.5	835863.5	837677	835857	0	8	6	0	0	0	0	0	0
111	67	837677	835857	837740.5	835837	0	8	8	0	0	0	0	0	0
111	68	837740.5	835837	837822.5	835799	0	8	10	0	0	0	0	0	0
117	69	837822.5	835799	837916.5	835770.5	0	8	11.5	0	0	0	0	0	0
117	70	837916.5	835770.5	837984.5	835754	0	8	13	0	0	0	0	0	0
117	71	837984.5	835754	838053	835731	0	8	16.5	0	0	0	0	0	0

Road ID	Segment	X coordinate of endpoint	Y coordinate of endpoint	X coordinate of endpoint	Y coordinate of endpoint	Road height	Physical Road width	Road elevation	Barrier 1 width	Barrier 1 height	Barrier 1 DCL	Barrier 2 width	Barrier 2 height	Barrier 2 DCL
119	72	838053	835731	838237.5	835652.5	0	8	17.5	0	0	0	0	0	0
119	73	838237.5	835652.5	838321	835606	0	8	16.5	0	0	0	0	0	0
119	74	838321	835606	838386	835568.5	0	8	16	0	0	0	0	0	0
119	75	838386	835568.5	838449	835553	0	8	15.5	0	0	0	0	0	0
121	76	838449	835553	838515	835563.5	0	8	15	0	0	0	0	0	0
121	77	838515	835563.5	838628	835588	0	8	14	0	0	0	0	0	0
121	78	838628	835588	838698.5	835603.5	0	8	13	0	0	0	0	0	0
121	79	838698.5	835603.5	838770	835613.5	0	8	12	0	0	0	0	0	0
121	80	838770	835613.5	838940.5	835630.5	0	8	10.5	0	0	0	0	0	0
121	81	838940.5	835630.5	839014	835646	0	8	9	0	0	0	0	0	0
123	82	839014	835646	839070.5	835680	0	6	8	0	0	0	0	0	0
123	83	839070.5	835680	839116	835718.5	0	6	7.5	0	0	0	0	0	0
124	84	839121	835718.5	839075	835673.5	0	6	7.5	0	0	0	0	0	0
124	85	839075	835673.5	839016	835641	0	6	8	0	0	0	0	0	0
122	86	839016	835641	838941.5	835621.5	0	8	9	0	0	0	0	0	0
122	87	838941.5	835621.5	838771	835605	0	8	10.5	0	0	0	0	0	0
122	88	838771	835605	838700	835595.5	0	8	12	0	0	0	0	0	0
122	89	838700	835595.5	838630	835579.5	0	8	13	0	0	0	0	0	0
122	90	838630	835579.5	838516.5	835556	0	8	14	0	0	0	0	0	0
122	91	838516.5	835556	838448.5	835545	0	8	15	0	0	0	0	0	0
120	92	838448.5	835545	838382	835557.5	0	8	15.5	0	0	0	0	0	0
120	93	838382	835557.5	838316.5	835599	0	8	16	0	0	0	0	0	0
120	94	838316.5	835599	838234.5	835643	0	8	16.5	0	0	0	0	0	0
120	95	838234.5	835643	838049.5	835722	0	8	17.5	0	0	0	0	0	0
118	96	838049.5	835722	837981	835746	0	8	16.5	0	0	0	0	0	0
118	97	837981	835746	837913.5	835762	0	8	13	0	0	0	0	0	0
118	98	837913.5	835762	837819.5	835793	0	8	11.5	0	0	0	0	0	0
112	99	837819.5	835793	837737.5	835830.5	0	8	10	0	0	0	0	0	0
112	100	837737.5	835830.5	837675.5	835849	0	8	8	0	0	0	0	0	0
112	101	837675.5	835849	837611.5	835855.5	0	8	6	0	0	0	0	0	0
112	102	837611.5	835855.5	837446.5	835855.5	0	8	5.5	0	0	0	0	0	0
110	103	837446.5	835855.5	837273.5	835855	0	8	5.5	0	0	0	0	0	0
108	104	837273.5	835855	837218	835853.5	0	8	5	0	0	0	0	0	0
108	105	837218	835853.5	837181	835846.5	0	8	5	0	0	0	0	0	0
108	106	837181	835846.5	837148.5	835836.5	0	8	5	0	0	0	0	0	0
108	107	837148.5	835836.5	837112	835814.5	0	8	5	0	0	0	0	0	0
126	108	837449.5	835859.5	837450	835754.5	0	7	6	0	0	0	0	0	0
134	109	837450	835754.5	837449	835538	0	7	6	0	0	0	0	0	0
138	110	837449	835538	837450	835374.5	0	7	5.5	0	0	0	0	0	0
140	111	837450	835374.5	837450.5	835281	0	7	5.5	0	0	0	0	0	0
156	112	837450.5	835281	837449	834948.5	0	7	5.5	0	0	0	0	0	0
155	113	837441.5	834948	837442.5	835281	0	7	5.5	0	0	0	0	0	0
139	114	837442.5	835281	837443	835374.5	0	7	5.5	0	0	0	0	0	0
137	115	837443	835374.5	837442.5	835538	0	7	5.5	0	0	0	0	0	0
133	116	837442.5	835538	837442.5	835754.5	0	7	6	0	0	0	0	0	0
125	117	837442.5	835754.5	837441	835859.5	0	7	6	0	0	0	0	0	0
145	118	837087	835286	837256.5	835287	0	7	5.5	0	0	0	0	0	0
143	119	837256.5	835287	837375.5	835287	0	7	5.5	0	0	0	0	0	0
141	120	837375.5	835287	837447	835286.5	0	7	5.5	0	0	0	0	0	0
142	121	837446.5	835276.5	837376	835278.5	0	7	5.5	0	0	0	0	0	0
144	122	837376	835278.5	837256.5	835278.5	0	7	5.5	0	0	0	0	0	0
146	123	837256.5	835278.5	837087	835278.5	0	7	5.5	0	0	0	0	0	0
151	124	837090.5	835282	837090	835412	0	7	6	0	0	0	0	0	0
147	125	837090	835412	837091.5	835473	0	7	6	0	0	0	0	0	0
129	126	837091.5	835473	837091.5	835618	0	7	6	0	0	0	0	0	0
129	127	837091.5	835618	837091.5	835732	0	7	6	0	0	0	0	0	0
129	128	837091.5	835732	837098.5	835750	0	7	6	0	0	0	0	0	0
129	129	837098.5	835750	837113	835758.5	0	7	6	0	0	0	0	0	0
129	130	837113.5	835758	837140	835760.5	0	7	6	0	0	0	0	0	0
129	131	837140	835760.5	837284.5	835759	0	7	6	0	0	0	0	0	0
127	132	837284.5	835759	837446	835759.5	0	7	6	0	0	0	0	0	0
128	133	837446.5	835759.5	837284.5	835750.5	0	7	6	0	0	0	0	0	0
130	134	837284.5	835750.5	837140	835752	0	7	6	0	0	0	0	0	0
130	135	837140	835752	837116.5	835750	0	7	6	0	0	0	0	0	0
130	136	837116.5	835750	837104	835741	0	7	6	0	0	0	0	0	0
130	137	837104	835741	837098.5	835727.5	0	7	6	0	0	0	0	0	0
130	138	837098.5	835727.5	837099	835618	0	7	6	0	0	0	0	0	0
130	139	837099	835618	837099	835473	0	7	6	0	0	0	0	0	0
148	140	837099	835473	837098	835411.5	0	7	6	0	0	0	0	0	0
152	141	837098	835411.5	837099.5	835282	0	7	6	0	0	0	0	0	0
154	142	837259	835283	837259	835170	0	7	5.5	0	0	0	0	0	0
154	143	837259	835170	837251	835140	0	7	5.5	0	0	0	0	0	0

Road ID	Segment	X coordinate of endpoint	Y coordinate of endpoint	X coordinate of endpoint	Y coordinate of endpoint	Road height	Physical Road width	Road elevation	Barrier 1 width	Barrier 1 height	Barrier 1 DCL	Barrier 2 width	Barrier 2 height	Barrier 2 DCL
154	144	837251	835140	837199.5	835139	0	7	5.5	0	0	0	0	0	0
153	145	837199.5	835147.5	837240.5	835148	0	7	5.5	0	0	0	0	0	0
153	146	837240.5	835148	837250.5	835170	0	7	5.5	0	0	0	0	0	0
153	147	837250.5	835170	837251	835283	0	7	5.5	0	0	0	0	0	0
157	148	837320.5	834950.5	837445.5	834950	0	6	5.5	0	0	0	0	0	0
161	149	837445.5	834950	837785	834949.5	0	7	5.5	0	0	0	0	0	0
165	150	837785	834949.5	837929	834949.5	0	7	5.5	0	0	0	0	0	0
166	151	837929	834942	837785	834943	0	7	5.5	0	0	0	0	0	0
162	152	837785	834943	837445.5	834944	0	7	5.5	0	0	0	0	0	0
158	153	837445.5	834944	837320.5	834944	0	6	5.5	0	0	0	0	0	0

Table 3 - Composite Emission Rate

Road ID	Hour	PM2.5 Emission			PM10 Emission		
		AnnualHourMin			AnnualHourMin		
		g/km/veh	g/s/m2	tonne/year	g/km/veh	g/s/m2	tonne/year
135136	0000-0100	1.65857E-02	5.42015E-09	2.57891E-05	1.80273E-02	5.89128E-09	2.80307E-05
135136	0100-0200	1.54307E-02	3.78203E-09	1.79949E-05	1.67797E-02	4.11266E-09	1.95680E-05
135136	0200-0300	1.78570E-02	5.83563E-09	2.77659E-05	1.94119E-02	6.34376E-09	3.01836E-05
135136	0300-0400	1.87410E-02	6.12452E-09	2.91404E-05	2.03664E-02	6.65569E-09	3.16677E-05
135136	0400-0500	2.25317E-02	1.10450E-08	5.25519E-05	2.44829E-02	1.20014E-08	5.71028E-05
135136	0500-0600	3.28423E-02	4.21467E-08	2.00534E-04	3.52023E-02	4.60160E-08	2.18944E-04
135136	0600-0700	3.57242E-02	1.16746E-07	5.55476E-04	3.90390E-02	1.27578E-07	6.07018E-04
135136	0700-0800	3.20800E-02	1.59876E-07	7.60689E-04	3.50508E-02	1.74681E-07	8.31132E-04
135136	0800-0900	3.44926E-02	2.02898E-07	9.65385E-04	3.76694E-02	2.21585E-07	1.05430E-03
135136	0900-1000	3.48372E-02	1.33770E-07	6.36479E-04	3.80548E-02	1.46126E-07	6.95265E-04
135136	1000-1100	3.16522E-02	8.53368E-08	4.06032E-04	3.45896E-02	9.32564E-08	4.43713E-04
135136	1100-1200	3.29487E-02	9.69079E-08	4.61087E-04	3.60051E-02	1.05897E-07	5.03858E-04
135136	1200-1300	3.34143E-02	1.09197E-07	5.19559E-04	3.65079E-02	1.19307E-07	5.67662E-04
135136	1300-1400	3.28776E-02	1.18187E-07	5.62335E-04	3.59512E-02	1.29237E-07	6.14907E-04
135136	1400-1500	2.99595E-02	1.22383E-07	5.82300E-04	3.27321E-02	1.33710E-07	6.36189E-04
135136	1500-1600	3.18832E-02	1.14613E-07	5.45326E-04	3.48493E-02	1.25275E-07	5.96059E-04
135136	1600-1700	3.51466E-02	1.37830E-07	6.55793E-04	3.84031E-02	1.50601E-07	7.16556E-04
135136	1700-1800	3.47361E-02	1.05003E-07	4.99603E-04	3.79891E-02	1.14836E-07	5.46391E-04
135136	1800-1900	3.26693E-02	7.47336E-08	3.55582E-04	3.56836E-02	8.16291E-08	3.88391E-04
135136	1900-2000	3.35461E-02	3.83697E-08	1.82563E-04	3.66394E-02	4.19079E-08	1.99397E-04
135136	2000-2100	3.27134E-02	3.74173E-08	1.78031E-04	3.57494E-02	4.08899E-08	1.94554E-04
135136	2100-2200	3.11225E-02	3.30550E-08	1.57275E-04	3.40302E-02	3.61432E-08	1.71969E-04
135136	2200-2300	2.58979E-02	1.69267E-08	8.05374E-05	2.84503E-02	1.85950E-08	8.84747E-05
135136	2300-0000	1.64221E-02	5.36670E-09	2.55347E-05	1.78496E-02	5.83320E-09	2.77543E-05
149150	0000-0100	5.41709E-02	4.42573E-08	9.11508E-05	5.90041E-02	4.82060E-08	9.92833E-05
149150	0100-0200	4.96730E-02	2.84078E-08	5.85076E-05	5.39653E-02	3.08625E-08	6.35633E-05
149150	0200-0300	3.77594E-02	1.23397E-08	2.54144E-05	4.10351E-02	1.34102E-08	2.76191E-05
149150	0300-0400	4.82539E-02	1.57692E-08	3.24778E-05	5.24331E-02	1.71350E-08	3.52907E-05
149150	0400-0500	2.58245E-02	8.43937E-09	1.73814E-05	2.80615E-02	9.17043E-09	1.88871E-05
149150	0500-0600	5.61394E-02	3.21059E-08	6.61241E-05	6.09997E-02	3.48854E-08	7.18488E-05
149150	0600-0700	5.31612E-02	1.43327E-07	2.59191E-04	5.79368E-02	1.56202E-07	3.21708E-04
149150	0700-0800	6.68089E-02	3.38411E-07	6.96980E-04	7.26915E-02	3.68208E-07	7.58349E-04
149150	0800-0900	4.12297E-02	1.28001E-07	2.63626E-04	4.49474E-02	1.39543E-07	2.87397E-04
149150	0900-1000	4.04114E-02	9.57459E-08	1.97195E-04	4.40135E-02	1.04280E-07	2.14772E-04
149150	1000-1100	6.02544E-02	1.62451E-07	3.34578E-04	6.56359E-02	1.76960E-07	3.64460E-04
149150	1100-1200	6.13602E-02	1.70445E-07	3.51042E-04	6.68113E-02	1.85587E-07	3.82228E-04
149150	1200-1300	5.89476E-02	1.30031E-07	2.67808E-04	6.42106E-02	1.41641E-07	2.91719E-04
149150	1300-1400	5.38157E-02	1.27504E-07	2.62604E-04	5.86130E-02	1.38871E-07	2.86013E-04
149150	1400-1500	5.38389E-02	1.18762E-07	2.44599E-04	5.86487E-02	1.29372E-07	2.66451E-04
149150	1500-1600	7.96097E-02	1.95122E-07	4.01866E-04	8.66857E-02	2.12465E-07	4.37585E-04
149150	1600-1700	6.71223E-02	1.86451E-07	3.84007E-04	7.31074E-02	2.03076E-07	4.18249E-04
149150	1700-1800	5.47414E-02	1.78893E-07	3.68442E-04	5.96737E-02	1.95012E-07	4.01640E-04
149150	1800-1900	4.70631E-02	1.03816E-07	2.13815E-04	5.12306E-02	1.13009E-07	2.32749E-04
149150	1900-2000	5.37791E-02	1.09843E-07	2.26229E-04	5.86037E-02	1.19697E-07	2.46524E-04
149150	2000-2100	5.53765E-02	7.69118E-08	1.58405E-04	6.03405E-02	8.38063E-08	1.72604E-04
149150	2100-2200	5.27417E-02	7.32523E-08	1.50868E-04	5.74726E-02	7.98230E-08	1.64401E-04
149150	2200-2300	4.99788E-02	5.71653E-08	1.17736E-04	5.44912E-02	6.23265E-08	1.28366E-04
149150	2300-0000	4.51272E-02	3.68686E-08	7.59333E-05	4.91619E-02	4.01649E-08	8.27223E-05
103104	0000-0100	3.61248E-03	1.15784E-09	1.53928E-06	3.89952E-03	1.24985E-09	1.66159E-06
103104	0100-0200	3.47448E-03	7.42409E-10	9.86987E-07	3.76152E-03	8.03743E-10	1.06853E-06
103104	0200-0300	4.54811E-03	9.71818E-10	1.29197E-06	4.99970E-03	1.06831E-09	1.42025E-06
103104	0300-0400	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
103104	0400-0500	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
103104	0500-0600	6.18104E-03	1.32074E-09	1.75584E-06	6.71456E-03	1.43474E-09	1.90739E-06
103104	0600-0700	6.35162E-03	4.75014E-09	6.31502E-06	6.89205E-03	5.15431E-09	6.85234E-06
103104	0700-0800	1.18711E-02	7.60967E-09	1.01166E-05	1.29126E-02	8.27730E-09	1.10042E-05
103104	0800-0900	8.63711E-03	7.38215E-09	9.81411E-06	9.37159E-03	8.00991E-09	1.06487E-05
103104	0900-1000	7.58927E-03	4.05410E-09	5.38967E-06	8.29244E-03	4.42972E-09	5.88904E-06
103104	1000-1100	9.01963E-03	1.06000E-08	1.40920E-05	9.79075E-03	1.15062E-08	1.52968E-05
103104	1100-1200	8.53464E-03	1.09418E-08	1.45465E-05	9.27561E-03	1.18918E-08	1.58094E-05
103104	1200-1300	1.08097E-02	1.27037E-08	1.68888E-05	1.17505E-02	1.38093E-08	1.83587E-05
103104	1300-1400	9.76753E-03	9.39186E-09	1.24859E-05	1.06113E-02	1.02031E-08	1.35644E-05
103104	1400-1500	9.61490E-03	7.19063E-09	9.55950E-06	1.04456E-02	7.81191E-09	1.03855E-05
103104	1500-1600	9.42985E-03	4.02985E-09	5.35744E-06	1.02792E-02	4.39283E-09	5.83999E-06
103104	1600-1700	9.72118E-03	7.27012E-09	9.66517E-06	1.05796E-02	7.91211E-09	1.05187E-05
103104	1700-1800	7.89243E-03	3.37283E-09	4.48398E-06	8.61364E-03	3.68104E-09	4.89372E-06
103104	1800-1900	6.60212E-03	2.82142E-09	3.75090E-06	7.21248E-03	3.08226E-09	4.09767E-06
103104	1900-2000	5.64109E-03	4.82144E-09	6.40981E-06	6.12135E-03	5.23192E-09	6.95552E-06
103104	2000-2100	7.19632E-03	6.15071E-09	8.17698E-06	7.82695E-03	6.68970E-09	8.89355E-06
103104	2100-2200	4.69077E-03	4.00920E-09	5.32999E-06	5.09626E-03	4.35578E-09	5.79074E-06
103104	2200-2300	4.43448E-03	3.31639E-09	4.40893E-06	4.81782E-03	3.60307E-09	4.79006E-06
103104	2300-0000	2.18120E-03	1.39821E-09	1.85883E-06	2.36510E-03	1.51609E-09	2.01554E-06
105106	0000-0100	3.77663E-03	7.49332E-10	1.02837E-06	4.09536E-03	8.12571E-10	1.11516E-06

Road ID	Hour	PM2.5 Emission			PM10 Emission		
		AnnualHourMin			AnnualHourMin		
		g/km/veh	g/s/m2	tonne/year	g/km/veh	g/s/m2	tonne/year
105106	0100-0200	4.38371E-03	8.69784E-10	1.19368E-06	4.75128E-03	9.42714E-10	1.29377E-06
105106	0200-0300	3.84063E-03	3.81015E-10	5.22900E-07	4.15936E-03	4.12635E-10	5.66294E-07
105106	0300-0400	4.87079E-03	4.83214E-10	6.63155E-07	5.27920E-03	5.23730E-10	7.18760E-07
105106	0400-0500	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
105106	0500-0600	7.68027E-03	2.28580E-09	3.13699E-06	8.33177E-03	2.47969E-09	3.40310E-06
105106	0600-0700	6.29446E-03	1.06157E-08	1.45688E-05	6.83445E-03	1.15263E-08	1.58186E-05
105106	0700-0800	1.02463E-02	1.62640E-08	2.23205E-05	1.12090E-02	1.77920E-08	2.44175E-05
105106	0800-0900	9.88722E-03	1.27514E-08	1.74998E-05	1.08331E-02	1.39712E-08	1.91739E-05
105106	0900-1000	8.01338E-03	8.74476E-09	1.20012E-05	8.91125E-03	9.72458E-09	1.33459E-05
105106	1000-1100	1.04470E-02	1.14005E-08	1.56459E-05	1.15569E-02	1.26117E-08	1.73082E-05
105106	1100-1200	9.78836E-03	1.47243E-08	1.46595E-05	1.06196E-02	1.15889E-08	1.59044E-05
105106	1200-1300	1.10712E-02	1.09833E-08	1.50734E-05	1.20150E-02	1.19196E-08	1.63584E-05
105106	1300-1400	9.45438E-03	8.44141E-09	1.15849E-05	1.02708E-02	9.17038E-09	1.25853E-05
105106	1400-1500	8.86139E-03	6.15375E-09	8.44531E-06	9.62817E-03	6.68623E-09	9.17609E-06
105106	1500-1600	1.47243E-02	1.75289E-08	2.40564E-05	1.59743E-02	1.90170E-08	2.60987E-05
105106	1600-1700	9.31482E-03	1.38613E-08	1.90231E-05	1.01539E-02	1.51099E-08	2.07367E-05
105106	1700-1800	5.52767E-03	7.12894E-09	9.78366E-06	5.99323E-03	7.72937E-09	1.06077E-05
105106	1800-1900	5.34716E-03	6.89613E-09	9.46416E-06	5.79145E-03	7.46913E-09	1.02505E-05
105106	1900-2000	6.12715E-03	3.64711E-09	5.00525E-06	6.85513E-03	4.08043E-09	5.59993E-06
105106	2000-2100	7.11973E-03	4.23749E-09	5.81608E-06	7.92459E-03	4.71701E-09	6.47357E-06
105106	2100-2200	6.30349E-03	4.37742E-09	6.00751E-06	6.83551E-03	4.74688E-09	6.51

Road ID	Hour	PM2.5 Emission			PM10 Emission		
		AnnualHourMin			AnnualHourMin		
		g/km/veh	g/s/m2	tonne/year	g/km/veh	g/s/m2	tonne/year
169170	0300-0400	5.20191E-03	2.70933E-09	8.44007E-06	6.04772E-03	3.14986E-09	9.81239E-06
169170	0400-0500	1.65648E-02	5.75166E-09	1.79175E-05	1.79832E-02	6.24417E-09	1.94518E-05
169170	0500-0600	4.08083E-02	3.54239E-08	1.10352E-04	4.43605E-02	3.85073E-08	1.19958E-04
169170	0600-0700	1.83565E-02	1.00387E-07	3.12725E-04	2.00664E-02	1.09738E-07	3.41855E-04
169170	0700-0800	2.42261E-02	2.46046E-07	7.66481E-04	2.64031E-02	2.68156E-07	8.35357E-04
169170	0800-0900	1.96306E-02	1.27803E-07	3.98131E-04	2.13876E-02	1.39242E-07	4.33765E-04
169170	0900-1000	2.21454E-02	1.34564E-07	4.19193E-04	2.41621E-02	1.46818E-07	4.57367E-04
169170	1000-1100	1.92011E-02	1.28341E-07	3.99806E-04	2.09628E-02	1.40116E-07	4.36487E-04
169170	1100-1200	2.13956E-02	1.39294E-07	4.33927E-04	2.34942E-02	1.52957E-07	4.76490E-04
169170	1200-1300	2.43700E-02	1.48082E-07	4.61302E-04	2.67441E-02	1.62508E-07	5.06242E-04
169170	1300-1400	1.89954E-02	1.36859E-07	4.26342E-04	2.07840E-02	1.49746E-07	4.66487E-04
169170	1400-1500	1.92515E-02	1.27007E-07	3.95649E-04	2.09711E-02	1.38351E-07	4.30990E-04
169170	1500-1600	2.84178E-02	1.67744E-07	5.22554E-04	3.10549E-02	1.83310E-07	5.71046E-04
169170	1600-1700	2.70553E-02	2.11369E-07	6.58455E-04	2.97057E-02	2.32075E-07	7.22959E-04
169170	1700-1800	2.13714E-02	1.74385E-07	5.43241E-04	2.35535E-02	1.92190E-07	5.98708E-04
169170	1800-1900	2.44269E-02	1.82354E-07	5.68066E-04	2.69279E-02	2.01024E-07	6.26227E-04
169170	1900-2000	1.98686E-02	1.32802E-07	4.13703E-04	2.20009E-02	1.47054E-07	4.58102E-04
169170	2000-2100	1.95224E-02	9.65952E-08	3.00912E-04	2.14612E-02	1.06188E-07	3.30797E-04
169170	2100-2200	1.49602E-02	7.14247E-08	2.22501E-04	1.64268E-02	7.84266E-08	2.44313E-04
169170	2200-2300	1.81508E-02	6.77505E-08	2.11055E-04	1.98483E-02	7.40865E-08	2.30794E-04
169170	2300-0000	1.20594E-02	3.34984E-08	1.04354E-04	1.31375E-02	3.64929E-08	1.13682E-04
131132	0000-0100	1.49380E-02	8.54300E-09	8.84510E-05	1.64222E-02	9.39178E-09	9.72389E-05
131132	0100-0200	1.32607E-02	6.50032E-09	6.73019E-05	1.44295E-02	7.07329E-09	7.32342E-05
131132	0200-0300	3.97903E-02	9.75253E-09	1.00974E-04	4.32657E-02	1.06043E-08	1.09793E-04
131132	0300-0400	3.97903E-02	9.75253E-09	1.00974E-04	4.32657E-02	1.06043E-08	1.09793E-04
131132	0400-0500	6.37591E-03	1.56272E-09	1.61799E-05	6.94008E-03	1.70100E-09	1.76115E-05
131132	0500-0600	2.73907E-02	1.34268E-08	1.39016E-04	2.97933E-02	1.46046E-08	1.51210E-04
131132	0600-0700	4.22305E-02	1.58709E-07	1.64322E-03	4.61307E-02	1.73367E-07	1.79497E-03
131132	0700-0800	4.19128E-02	2.43121E-07	2.51719E-03	4.57039E-02	2.65113E-07	2.74488E-03
131132	0800-0900	3.55720E-02	9.29986E-08	9.62872E-04	3.86435E-02	1.01029E-07	1.04601E-03
131132	0900-1000	2.88750E-02	6.36949E-08	6.59473E-04	3.13581E-02	6.91723E-08	7.16184E-04
131132	1000-1100	3.31075E-02	6.22117E-08	6.44117E-04	3.60691E-02	6.77769E-08	7.01736E-04
131132	1100-1200	3.62970E-02	5.93088E-08	6.14061E-04	3.95520E-02	6.46275E-08	6.69129E-04
131132	1200-1300	3.70248E-02	4.53735E-08	4.69780E-04	4.03891E-02	4.94965E-08	5.12468E-04
131132	1300-1400	3.76473E-02	6.15152E-08	6.36905E-04	4.10241E-02	6.70328E-08	6.94032E-04
131132	1400-1500	3.18301E-02	4.68090E-08	4.84643E-04	3.47131E-02	5.10486E-08	5.28538E-04
131132	1500-1600	7.22553E-02	1.94806E-07	2.01695E-03	7.88972E-02	2.12713E-07	2.20235E-03
131132	1600-1700	4.82141E-02	1.61501E-07	1.67213E-03	5.25354E-02	1.75976E-07	1.82199E-03
131132	1700-1800	4.05057E-02	1.35681E-07	1.40479E-03	4.41256E-02	1.47806E-07	1.53033E-03
131132	1800-1900	1.89088E-02	3.70762E-08	3.83873E-04	2.06349E-02	4.04605E-08	4.18913E-04
131132	1900-2000	2.12336E-02	3.12258E-08	3.23301E-04	2.32059E-02	3.41263E-08	3.53331E-04
131132	2000-2100	2.00089E-02	2.12513E-08	2.20028E-04	2.18872E-02	2.32463E-08	2.40683E-04
131132	2100-2200	1.97583E-02	1.93709E-08	2.00559E-04	2.16615E-02	2.12368E-08	2.19878E-04
131132	2200-2300	1.66807E-02	1.49908E-08	1.55209E-04	1.82986E-02	1.64448E-08	1.70263E-04
131132	2300-0000	1.53833E-02	1.00545E-08	1.04100E-04	1.67340E-02	1.09373E-08	1.13240E-04
159160	0000-0100	4.79771E-03	7.82290E-10	6.39031E-06	5.22828E-03	8.52496E-10	6.96380E-06
159160	0100-0200	4.86971E-03	7.94030E-10	6.48621E-06	5.30028E-03	8.64236E-10	7.05970E-06
159160	0200-0300	5.33079E-03	8.69211E-10	7.10035E-06	5.80920E-03	9.47217E-10	7.73756E-06
159160	0300-0400	5.48079E-03	8.93669E-10	7.30014E-06	5.95920E-03	9.71676E-10	7.93735E-06
159160	0400-0500	9.57171E-03	1.56071E-09	1.27490E-05	1.04103E-02	1.69745E-09	1.38660E-05
159160	0500-0600	1.39890E-02	4.56194E-09	3.72652E-05	1.52120E-02	4.96078E-09	4.05233E-05
159160	0600-0700	1.04206E-02	5.09740E-09	4.16393E-05	1.13340E-02	5.54420E-09	4.52891E-05
159160	0700-0800	1.62116E-02	2.11470E-08	1.72744E-04	1.76324E-02	2.30003E-08	1.87883E-04
159160	0800-0900	1.90760E-02	2.48835E-08	2.03266E-04	2.08135E-02	2.71500E-08	2.21781E-04
159160	0900-1000	1.57901E-02	1.41605E-08	1.15674E-04	1.71890E-02	1.54151E-08	1.25922E-04
159160	1000-1100	1.38609E-02	1.01704E-08	8.30794E-05	1.53380E-02	1.12542E-08	9.19327E-05
159160	1100-1200	1.17045E-02	9.54236E-09	7.79489E-05	1.29680E-02	1.05724E-08	8.63635E-05
159160	1200-1300	1.04277E-02	9.35159E-09	7.63906E-05	1.13476E-02	1.01766E-08	8.31297E-05
159160	1300-1400	1.24951E-02	9.16822E-09	7.48927E-05	1.35966E-02	9.97644E-09	8.14948E-05
159160	1400-1500	1.40617E-02	1.03177E-08	8.42827E-05	1.53001E-02	1.12264E-08	9.17051E-05
159160	1500-1600	1.02804E-02	8.38137E-09	6.84652E-05	1.16427E-02	9.49203E-09	7.75378E-05
159160	1600-1700	2.04443E-02	1.50009E-08	1.22539E-04	2.22382E-02	1.63172E-08	1.33290E-04
159160	1700-1800	1.25941E-02	1.02677E-08	8.38738E-05	1.37959E-02	1.12475E-08	9.18776E-05
159160	1800-1900	8.85752E-03	6.49917E-09	5.30900E-05	9.63270E-03	7.06796E-09	5.77362E-05
159160	1900-2000	1.07418E-02	3.50299E-09	2.86150E-05	1.16840E-02	3.81028E-09	3.11251E-05
159160	2000-2100	1.13845E-02	1.85629E-09	1.51636E-05	1.23875E-02	2.01984E-09	1.64996E-05
159160	2100-2200	1.38662E-02	2.26096E-09	1.84691E-05	1.50908E-02	2.46062E-09	2.01001E-05
159160	2200-2300	7.69955E-03	1.25545E-09	1.02554E-05	8.38244E-03	1.36680E-09	1.11650E-05
159160	2300-0000	4.86971E-03	7.94030E-10	6.48621E-06	5.30028E-03	8.64236E-10	7.05970E-06
163164	0000-0100	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
163164	0100-0200	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
163164	0200-0300	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
163164	0300-0400	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
163164	0400-0500	7.39079E-03	6.41562E-10	2.46446E-06	8.01920E-03	6.96111E-10	2.67400E-06

Road ID	Hour	PM2.5 Emission			PM10 Emission		
		AnnualHourMin			AnnualHourMin		
		g/km/veh	g/s/m2	tonne/year	g/km/veh	g/s/m2	tonne/year
163164	0500-0600	3.23396E-02	5.61452E-09	2.15673E-05	3.50984E-02	6.09346E-09	2.34071E-05
163164	0600-0700	2.52762E-02	6.58235E-09	2.52850E-05	2.74545E-02	7.14960E-09	2.74640E-05
163164	0700-0800	3.00463E-02	1.04328E-08	4.00758E-05	3.26411E-02	1.13337E-08	4.35366E-05
163164	0800-0900	5.68316E-02	3.94664E-08	1.51604E-04	6.19221E-02	4.30015E-08	1.65183E-04
163164	0900-1000	6.67135E-02	5.79110E-08	2.22456E-04	7.27518E-02	6.31526E-08	2.42590E-04
163164	1000-1100	3.46339E-02	9.01924E-09	3.46460E-05	3.76341E-02	9.80055E-09	3.76472E-05
163164	1100-1200	2.70074E-02	7.03319E-09	2.70169E-05	2.93213E-02	7.63575E-09	2.93315E-05
163164	1200-1300	1.44141E-02	5.00489E-09	1.92255E-05	1.56664E-02	5.43973E-09	2.08958E-05
163164	1300-1400	1.68389E-02	4.38512E-09	1.68447E-05	1.82782E-02	4.75995E-09	1.82846E-05
163164	1400-1500	2.86846E-02	9.95993E-09	3.82595E-05	3.11744E-02	1.08244E-09	4.15803E-05
163164	1500-1600	1.21309E-02	2.10666E-09	8.09011E-06	1.43860E-02	2.49756E-09	9.59399E-06
163164	1600-1700	7.15305E-02	2.48370E-08	9.54073E-05	7.77290E-02	2.69892E-08	1.03675E-04
163164	1700-1800	2.58805E-02	4.49314E-09	1.72597E-05	2.81115E-02	4.88047E-09	1.87475E-05
163164	1800-1900	3.31163E-02	5.74936E-09	2.20852E-05	3.59667E-02	6.24422E-09	2.39861E-05
163164	1900-2000	5.79263E-03	5.02833E-10	1.93155E-06	6.23136E-03	5.40916E-10	2.07784E-06
163164	2000-2100	5.79263E-03	5.02833E-10	1.93155E-06	6.23136E-03	5.40916E-10	2.07784E-06
163164	2100-2200	5.60863E-03	4.86861E-10	1.87020E-06	6.04736E-03	5.24944E-10	2.01649E-06
163164	2200-2300	7.01079E-03	6.08576E-10	2.33775E-06	7.55920E-03	6.56180E-10	2.52061E-06
163164	2300-0000	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
167168	0000-0100	4.34448E-03	6.35157E-10	1.94099E-06	4.67352E-03	6.83263E-10	2.08800E-06
167168	0100-0200						

Road ID	Hour	PM2.5 Emission			PM10 Emission		
		AnnualHourMin			AnnualHourMin		
		g/km/veh	g/s/m2	tonne/year	g/km/veh	g/s/m2	tonne/year
107	0700-0800	1.30854E-02	3.20643E-07	1.03248E-03	1.42451E-02	3.49062E-07	1.12399E-03
107	0800-0900	1.02087E-02	2.21797E-07	7.14193E-04	1.11115E-02	2.41410E-07	7.77347E-04
107	0900-1000	1.22932E-02	2.75620E-07	8.87506E-04	1.33810E-02	3.00010E-07	9.66040E-04
107	1000-1100	1.33497E-02	2.72820E-07	8.78489E-04	1.45452E-02	2.97253E-07	9.57163E-04
107	1100-1200	1.46367E-02	2.83150E-07	9.11750E-04	1.58881E-02	3.07360E-07	9.89708E-04
107	1200-1300	1.48742E-02	2.74464E-07	8.83784E-04	1.61902E-02	2.98747E-07	9.61974E-04
107	1300-1400	1.25395E-02	2.69947E-07	8.69237E-04	1.36480E-02	2.93810E-07	9.46078E-04
107	1400-1500	9.53263E-03	1.84411E-07	5.93809E-04	1.03432E-02	2.00092E-07	6.44301E-04
107	1500-1600	1.46804E-02	2.72345E-07	8.76960E-04	1.59937E-02	2.96708E-07	9.55410E-04
107	1600-1700	1.02348E-02	2.23379E-07	7.19286E-04	1.11095E-02	2.42470E-07	7.80761E-04
107	1700-1800	7.50831E-03	1.66860E-07	5.37295E-04	8.13605E-03	1.80801E-07	5.82185E-04
107	1800-1900	8.80180E-03	1.29233E-07	4.16133E-04	9.58039E-03	1.40664E-07	4.52944E-04
107	1900-2000	7.36480E-03	8.18312E-08	2.63499E-04	8.03866E-03	8.93185E-08	2.87608E-04
107	2000-2100	8.05012E-03	9.66333E-08	3.11162E-04	8.74696E-03	1.04998E-07	3.38097E-04
107	2100-2200	4.14333E-03	4.06935E-08	1.31034E-04	4.47877E-03	4.39879E-08	1.41642E-04
107	2200-2300	8.13525E-03	9.03917E-08	2.91064E-04	8.86580E-03	9.85089E-08	3.17202E-04
107	2300-0000	5.11549E-03	4.16141E-08	1.33999E-04	5.58202E-03	4.54093E-08	1.46219E-04
109	0000-0100	3.81982E-03	1.70528E-08	5.42706E-05	4.14071E-03	1.84853E-08	5.88297E-05
109	0100-0200	3.09100E-03	7.35952E-09	2.34217E-05	3.38808E-03	8.06687E-09	2.56729E-05
109	0200-0300	2.56175E-03	4.06627E-09	1.29409E-05	2.82238E-03	4.47996E-09	1.42575E-05
109	0300-0400	1.09949E-02	1.52706E-08	4.85989E-05	1.19456E-02	1.65911E-08	5.28012E-05
109	0400-0500	1.27669E-02	1.89984E-08	6.04626E-05	1.38988E-02	2.06827E-08	6.58230E-05
109	0500-0600	8.51120E-03	3.37746E-08	1.07488E-04	9.28010E-03	3.68258E-08	1.17198E-04
109	0600-0700	9.25573E-03	2.14865E-07	6.83810E-04	1.00800E-02	2.34001E-07	7.44709E-04
109	0700-0800	1.32748E-02	3.14749E-07	1.00169E-03	1.44584E-02	3.42812E-07	1.09100E-03
109	0800-0900	1.01914E-02	2.16364E-07	6.88582E-04	1.10482E-02	2.34555E-07	7.46474E-04
109	0900-1000	1.23225E-02	2.71388E-07	8.63693E-04	1.34235E-02	2.95636E-07	9.40862E-04
109	1000-1100	1.34236E-02	2.69004E-07	8.56109E-04	1.46255E-02	2.93090E-07	9.32763E-04
109	1100-1200	1.46609E-02	2.77800E-07	8.84101E-04	1.59569E-02	3.02359E-07	9.62258E-04
109	1200-1300	1.48745E-02	2.67092E-07	8.50023E-04	1.61404E-02	2.89822E-07	9.22361E-04
109	1300-1400	1.24620E-02	2.62098E-07	8.34130E-04	1.35232E-02	2.84416E-07	9.05155E-04
109	1400-1500	9.60353E-03	1.81972E-07	5.79126E-04	1.04203E-02	1.97449E-07	6.28382E-04
109	1500-1600	1.47175E-02	2.68653E-07	8.54991E-04	1.59879E-02	2.91843E-07	9.28793E-04
109	1600-1700	1.04706E-02	2.23331E-07	7.10752E-04	1.13618E-02	2.42339E-07	7.71247E-04
109	1700-1800	7.53123E-03	1.63625E-07	5.20738E-04	8.16416E-03	1.77376E-07	5.64501E-04
109	1800-1900	9.01158E-03	1.27843E-07	4.06861E-04	9.76239E-03	1.38494E-07	4.40759E-04
109	1900-2000	7.59886E-03	8.06625E-08	2.56709E-04	8.28536E-03	8.79498E-08	2.79901E-04
109	2000-2100	8.21391E-03	9.53401E-08	3.03421E-04	8.91144E-03	1.03436E-07	3.29187E-04
109	2100-2200	4.08688E-03	3.85173E-08	1.22581E-04	4.41667E-03	4.16254E-08	1.32473E-04
109	2200-2300	8.24259E-03	8.91312E-08	2.83661E-04	8.98288E-03	9.71363E-08	3.09137E-04
109	2300-0000	5.21673E-03	4.14026E-08	1.31764E-04	5.69753E-03	4.52185E-08	1.43908E-04
111	0000-0100	9.52075E-03	4.43924E-08	3.16676E-04	1.05145E-02	4.90259E-08	3.49730E-04
111	0100-0200	8.84884E-03	2.19465E-08	1.56557E-04	9.68508E-03	2.40205E-08	1.71352E-04
111	0200-0300	7.22661E-03	1.14708E-08	8.18280E-05	8.01723E-03	1.27258E-08	9.07802E-05
111	0300-0400	1.15766E-02	1.49302E-08	1.06505E-04	1.28539E-02	1.65775E-08	1.18257E-04
111	0400-0500	1.67213E-02	1.99063E-08	1.42003E-04	1.82856E-02	2.17686E-08	1.55288E-04
111	0500-0600	1.79708E-02	4.63531E-08	3.30664E-04	1.96413E-02	5.06620E-08	3.61402E-04
111	0600-0700	1.60598E-02	1.81629E-07	1.29566E-03	1.76151E-02	1.99218E-07	1.42114E-03
111	0700-0800	1.53319E-02	3.52876E-07	2.51727E-03	1.68414E-02	3.87619E-07	2.76511E-03
111	0800-0900	1.43278E-02	3.75253E-07	2.67689E-03	1.56208E-02	4.09116E-07	2.91846E-03
111	0900-1000	1.73883E-02	3.98481E-07	2.84260E-03	1.89552E-02	4.34390E-07	3.09876E-03
111	1000-1100	1.84796E-02	3.50159E-07	2.49788E-03	2.01818E-02	3.82414E-07	2.72798E-03
111	1100-1200	1.82396E-02	3.41993E-07	2.43964E-03	1.99454E-02	3.73977E-07	2.66779E-03
111	1200-1300	1.91960E-02	4.22769E-07	3.01585E-03	2.10102E-02	4.62725E-07	3.30088E-03
111	1300-1400	1.89326E-02	4.18846E-07	2.98787E-03	2.07690E-02	4.59473E-07	3.27768E-03
111	1400-1500	1.52962E-02	3.01979E-07	2.15419E-03	1.67567E-02	3.30812E-07	2.35987E-03
111	1500-1600	1.92406E-02	3.85575E-07	2.75053E-03	2.11062E-02	4.22961E-07	3.01722E-03
111	1600-1700	1.78092E-02	4.06360E-07	2.89880E-03	1.95309E-02	4.45646E-07	3.17905E-03
111	1700-1800	1.45096E-02	3.74256E-07	2.66979E-03	1.59412E-02	4.11183E-07	2.93321E-03
111	1800-1900	1.23356E-02	3.16956E-07	2.26103E-03	1.35548E-02	3.48283E-07	2.48451E-03
111	1900-2000	1.25032E-02	2.46838E-07	1.76084E-03	1.38344E-02	2.73120E-07	1.94832E-03
111	2000-2100	1.20908E-02	1.79923E-07	1.28349E-03	1.33410E-02	1.98527E-07	1.41621E-03
111	2100-2200	1.05741E-02	1.62598E-07	1.15990E-03	1.16126E-02	1.78566E-07	1.27382E-03
111	2200-2300	1.22112E-02	1.44160E-07	1.02838E-03	1.33996E-02	1.58190E-07	1.12846E-03
111	2300-0000	9.15540E-03	7.53867E-08	5.37777E-04	9.97446E-03	8.21310E-08	5.85888E-04
117	0000-0100	1.00001E-02	3.27384E-08	1.44817E-04	1.10155E-02	3.60627E-08	1.59522E-04
117	0100-0200	6.89676E-03	1.23156E-08	5.44776E-05	7.52801E-03	1.34429E-08	5.94638E-05
117	0200-0300	8.72300E-03	9.51915E-09	4.21074E-05	9.60633E-03	1.04831E-08	4.63714E-05
117	0300-0400	1.37309E-02	1.36219E-08	6.02557E-05	1.51678E-02	1.50474E-08	6.65613E-05
117	0400-0500	2.06943E-02	1.64240E-08	7.26507E-05	2.26297E-02	1.79600E-08	7.94453E-05
117	0500-0600	1.73843E-02	3.27681E-08	1.44948E-04	1.89498E-02	3.57188E-08	1.58000E-04
117	0600-0700	1.93184E-02	1.30322E-07	5.76474E-04	2.11401E-02	1.42612E-07	6.30836E-04
117	0700-0800	1.66768E-02	2.41549E-07	1.06848E-03	1.83174E-02	2.65311E-07	1.17359E-03
117	0800-0900	1.50630E-02	2.88408E-07	1.27576E-03	1.64176E-02	3.14345E-07	1.39049E-03

Road ID	Hour	PM2.5 Emission			PM10 Emission		
		AnnualHourMin			AnnualHourMin		
		g/km/veh	g/s/m2	tonne/year	g/km/veh	g/s/m2	tonne/year
117	0900-1000	1.96029E-02	3.20880E-07	1.41940E-03	2.13478E-02	3.49443E-07	1.54574E-03
117	1000-1100	2.08153E-02	2.82906E-07	1.25142E-03	2.27514E-02	3.09221E-07	1.36782E-03
117	1100-1200	1.99749E-02	2.75448E-07	1.21843E-03	2.18798E-02	3.01716E-07	1.33463E-03
117	1200-1300	2.12113E-02	3.51418E-07	1.55448E-03	2.32479E-02	3.85159E-07	1.70373E-03
117	1300-1400	2.18334E-02	3.55226E-07	1.57132E-03	2.39217E-02	3.89203E-07	1.72162E-03
117	1400-1500	1.67320E-02	2.37369E-07	1.04999E-03	1.83716E-02	2.60630E-07	1.15288E-03
117	1500-1600	1.96542E-02	2.90523E-07	1.28511E-03	2.15317E-02	3.18276E-07	1.40788E-03
117	1600-1700	1.87464E-02	3.06861E-07	1.35738E-03	2.05319E-02	3.36088E-07	1.48667E-03
117	1700-1800	1.48870E-02	2.70270E-07	1.19553E-03	1.63106E-02	2.96116E-07	1.30985E-03
117	1800-1900	1.22972E-02	2.28133E-07	1.00913E-03	1.34524E-02	2.49563E-07	1.10393E-03
117	1900-2000	1.37014E-02	1.95734E-07	8.65820E-04	1.51631E-02	2.16616E-07	9.58189E-04
117	2000-2100	1.33339E-02	1.44186E-07	6.37800E-04	1.47991E-02	1.60030E-07	7.07882E-04
117	2100-2200	1.15886E-02	1.26463E-07	5.59403E-04	1.27191E-02	1.38800E-07	6.13975E-04
117	2200-2300	1.30318E-02	1.09892E-07	4.86099E-04	1.43199E-02	1.20753E-07	5.34144E-04
117	2300-0000	1.01089E-02	5.81662E-08	2.57295E-04	1.10153E-02	6.33820E-08	2.80367E-04
119	0000-0100	9.93774E-03	3.25343E-08	2.60946E-04	1.09941E-02	3.59927E-08	2.88686E-04
119	0100-0200	6.89676E-03	1.23156E-08	9.87797E-05	7.52801E-03	1.34429E-08	1.07821E-04
119	0200-0300	8.72300E-03	9.51915E-09	7.63499E-05	9.60633E-03	1.04831E-08	8.40815E-05
119	0300-0400	1.37445E-02	1.36354E-08	1.09365E-04	1.51814E-02	1.50609E-08	1.20798E-04
119	0400-0500	2.06428E-02	1.63831E-08	1.31404E-04	2.25934E-02	1.79313E-08	1.43821E-04
119	0500-0600	1.73193E-02	3.26455E-08	2.61838E-04	1.89077E-02	3.56394E-08	2.85852E-04
119	0600-0700	1.93184E-02	1.30322E-07	1.04527E-03	2.11401E-02	1.42612E-07	1.14384E-03
119	0700-0800	1.67266E-02	2.42270E-07	1.94317			

Road ID	Hour	PM2.5 Emission			PM10 Emission		
		AnnualHourMin			AnnualHourMin		
		g/km/veh	g/s/m2	tonne/year	g/km/veh	g/s/m2	tonne/year
123	1100-1200	1.91435E-02	2.19352E-07	4.34225E-04	2.10258E-02	2.40920E-07	4.76921E-04
123	1200-1300	2.54802E-02	3.86332E-07	7.64775E-04	2.79133E-02	4.23223E-07	8.37804E-04
123	1300-1400	2.38420E-02	3.31139E-07	6.55516E-04	2.61375E-02	3.63021E-07	7.18629E-04
123	1400-1500	1.50593E-02	1.74297E-07	3.45035E-04	1.66330E-02	1.92511E-07	3.81091E-04
123	1500-1600	2.07937E-02	2.09381E-07	4.14487E-04	2.28712E-02	2.30300E-07	4.55897E-04
123	1600-1700	2.31570E-02	2.84102E-07	5.62402E-04	2.53863E-02	3.11452E-07	6.16545E-04
123	1700-1800	1.80591E-02	1.31795E-07	5.46173E-04	1.98079E-02	3.02621E-07	5.99062E-04
123	1800-1900	1.43798E-02	2.39663E-07	4.74433E-04	1.57779E-02	2.62966E-07	5.20561E-04
123	1900-2000	1.59592E-02	1.97642E-07	3.91249E-04	1.76694E-02	2.18823E-07	4.33177E-04
123	2000-2100	1.53650E-02	1.38712E-07	2.74592E-04	1.70783E-02	1.54179E-07	3.05209E-04
123	2100-2200	1.33189E-02	1.21781E-07	2.41076E-04	1.45887E-02	1.33392E-07	2.64060E-04
123	2200-2300	1.47104E-02	1.05561E-07	2.08967E-04	1.61358E-02	1.15789E-07	2.29214E-04
123	2300-0000	1.17079E-02	5.69132E-08	1.12664E-04	1.28011E-02	6.22278E-08	1.23185E-04
124	0000-0100	1.18027E-02	3.00532E-08	6.12786E-05	1.30297E-02	3.31775E-08	6.76489E-05
124	0100-0200	9.48923E-03	1.31795E-08	2.68730E-05	1.04000E-02	1.44444E-08	2.94523E-05
124	0200-0300	1.20102E-02	9.73050E-09	1.98405E-05	1.30526E-02	1.05751E-08	2.15626E-05
124	0300-0400	1.67381E-02	1.16237E-08	2.37007E-05	1.85641E-02	1.28917E-08	2.62863E-05
124	0400-0500	2.09154E-02	1.45246E-08	2.96156E-05	2.29214E-02	1.59176E-08	3.24561E-05
124	0500-0600	3.04086E-02	2.46366E-08	5.02340E-05	3.32348E-02	2.69263E-08	5.49028E-05
124	0600-0700	2.34426E-02	5.42653E-08	1.10647E-04	2.57732E-02	5.96602E-08	1.21647E-04
124	0700-0800	1.28150E-02	1.77986E-07	3.62914E-04	1.40177E-02	1.94691E-07	3.96975E-04
124	0800-0900	1.74307E-02	3.08668E-07	6.29375E-04	1.89795E-02	3.36096E-07	6.85300E-04
124	0900-1000	1.81296E-02	2.35013E-07	4.79193E-04	1.97160E-02	2.55578E-07	5.21125E-04
124	1000-1100	1.97063E-02	2.30363E-07	4.69711E-04	2.14937E-02	2.51257E-07	5.12314E-04
124	1100-1200	1.67176E-02	1.74141E-07	3.55075E-04	1.85177E-02	1.92892E-07	3.93308E-04
124	1200-1300	1.81410E-02	2.85553E-07	5.82243E-04	2.00150E-02	3.15051E-07	6.42390E-04
124	1300-1400	2.04285E-02	2.41170E-07	4.91747E-04	2.24910E-02	2.65518E-07	5.41393E-04
124	1400-1500	1.61523E-02	1.73861E-07	3.54504E-04	1.76877E-02	1.90388E-07	3.88202E-04
124	1500-1600	2.07081E-02	2.25296E-07	4.59380E-04	2.24915E-02	2.44699E-07	4.98942E-04
124	1600-1700	2.14460E-02	2.48217E-07	5.06116E-04	2.33147E-02	2.69846E-07	5.50216E-04
124	1700-1800	1.67031E-02	2.60987E-07	5.32152E-04	1.83125E-02	2.86133E-07	5.83426E-04
124	1800-1900	1.11258E-02	1.88005E-07	3.83343E-04	1.23017E-02	2.07875E-07	4.23859E-04
124	1900-2000	1.26875E-02	1.46846E-07	2.99419E-04	1.40376E-02	1.62472E-07	3.31281E-04
124	2000-2100	1.25119E-02	1.08610E-07	2.21456E-04	1.36961E-02	1.18890E-07	2.42416E-04
124	2100-2200	1.27527E-02	1.16604E-07	2.37757E-04	1.40256E-02	1.28243E-07	2.61488E-04
124	2200-2300	1.36671E-02	8.85830E-08	1.80621E-04	1.49289E-02	9.67612E-08	1.97296E-04
124	2300-0000	9.20900E-03	4.05025E-08	8.25848E-05	1.00930E-02	4.43904E-08	9.05122E-05
122	0000-0100	1.23504E-02	3.67571E-08	3.89844E-04	1.35294E-02	4.02660E-08	4.27059E-04
122	0100-0200	9.57495E-03	1.42484E-08	1.51118E-04	1.04931E-02	1.56147E-08	1.65609E-04
122	0200-0300	1.29536E-02	1.15657E-08	1.22665E-04	1.40918E-02	1.25819E-08	1.33443E-04
122	0300-0400	1.78927E-02	1.42005E-08	1.50610E-04	1.97375E-02	1.56647E-08	1.66139E-04
122	0400-0500	2.58120E-02	1.79250E-08	1.90112E-04	2.82298E-02	1.96040E-08	2.07919E-04
122	0500-0600	2.52164E-02	3.75243E-08	3.97981E-04	2.74888E-02	4.09060E-08	4.33847E-04
122	0600-0700	1.77457E-02	1.16192E-07	1.23233E-03	1.95042E-02	1.27706E-07	1.35444E-03
122	0700-0800	1.42504E-02	2.19129E-07	2.32407E-03	1.55840E-02	2.39634E-07	2.54155E-03
122	0800-0900	1.71175E-02	3.24350E-07	3.44004E-03	1.86636E-02	3.53646E-07	3.75075E-03
122	0900-1000	1.75299E-02	2.66079E-07	2.82202E-03	1.90326E-02	2.88887E-07	3.06393E-03
122	1000-1100	1.87050E-02	2.35669E-07	2.49949E-03	2.03781E-02	2.56748E-07	2.72306E-03
122	1100-1200	1.75140E-02	2.11975E-07	2.24819E-03	1.93325E-02	2.33985E-07	2.48163E-03
122	1200-1300	1.74934E-02	2.74202E-07	2.90817E-03	1.92961E-02	3.02458E-07	3.20786E-03
122	1300-1400	1.98176E-02	2.69346E-07	2.85667E-03	2.17773E-02	2.95981E-07	3.13915E-03
122	1400-1500	1.77687E-02	2.23871E-07	2.37437E-03	1.93857E-02	2.44244E-07	2.59044E-03
122	1500-1600	2.03425E-02	2.72444E-07	2.88953E-03	2.21658E-02	2.96863E-07	3.14852E-03
122	1600-1700	1.94597E-02	2.66412E-07	2.82555E-03	2.12139E-02	2.90428E-07	3.08027E-03
122	1700-1800	1.57403E-02	2.62339E-07	2.78235E-03	1.72389E-02	2.87315E-07	3.04725E-03
122	1800-1900	1.15817E-02	2.01071E-07	2.13255E-03	1.28080E-02	2.22362E-07	2.35836E-03
122	1900-2000	1.28371E-02	1.61738E-07	1.71538E-03	1.42239E-02	1.79210E-07	1.90069E-03
122	2000-2100	1.20062E-02	1.13154E-07	1.20011E-03	1.31901E-02	1.24311E-07	1.31844E-03
122	2100-2200	1.27668E-02	1.25388E-07	1.32986E-03	1.40037E-02	1.37536E-07	1.45870E-03
122	2200-2300	1.34713E-02	9.62232E-08	1.02054E-03	1.47411E-02	1.05294E-07	1.11674E-03
122	2300-0000	8.95701E-03	4.44296E-08	4.71218E-04	9.75475E-03	4.83867E-08	5.13187E-04
120	0000-0100	1.18903E-02	3.65675E-08	2.95600E-04	1.30358E-02	4.00901E-08	3.24076E-04
120	0100-0200	9.04879E-03	1.43632E-08	1.16107E-04	9.92851E-03	1.57595E-08	1.27395E-04
120	0200-0300	1.27529E-02	1.13865E-08	9.20448E-05	1.38831E-02	1.23956E-08	1.00202E-04
120	0300-0400	1.77669E-02	1.41007E-08	1.13986E-04	1.95702E-02	1.55319E-08	1.25555E-04
120	0400-0500	2.30656E-02	1.83060E-08	1.47980E-04	2.51985E-02	1.99988E-08	1.61664E-04
120	0500-0600	2.24383E-02	3.78423E-08	3.05905E-04	2.44765E-02	4.12799E-08	3.33693E-04
120	0600-0700	1.60460E-02	1.19390E-07	9.65109E-04	1.76120E-02	1.31042E-07	1.05930E-03
120	0700-0800	1.31846E-02	2.19743E-07	1.77633E-03	1.44239E-02	2.40398E-07	1.94330E-03
120	0800-0900	1.60527E-02	3.24877E-07	2.62620E-03	1.74662E-02	3.53483E-07	2.85744E-03
120	0900-1000	1.64584E-02	2.67776E-07	2.16461E-03	1.79049E-02	2.91310E-07	2.35485E-03
120	1000-1100	1.77368E-02	2.35787E-07	1.90603E-03	1.93343E-02	2.57023E-07	2.07769E-03
120	1100-1200	1.64996E-02	2.12792E-07	1.72014E-03	1.82036E-02	2.34768E-07	1.89779E-03
120	1200-1300	1.67543E-02	2.74253E-07	2.21697E-03	1.84968E-02	3.02775E-07	2.44753E-03

Road ID	Hour	PM2.5 Emission			PM10 Emission		
		AnnualHourMin			AnnualHourMin		
		g/km/veh	g/s/m2	tonne/year	g/km/veh	g/s/m2	tonne/year
120	1300-1400	1.89007E-02	2.71885E-07	2.19783E-03	2.07587E-02	2.98612E-07	2.41389E-03
120	1400-1500	1.68754E-02	2.24335E-07	1.81345E-03	1.84228E-02	2.44906E-07	1.97974E-03
120	1500-1600	1.93547E-02	2.74575E-07	2.21957E-03	2.10772E-02	2.99012E-07	2.41712E-03
120	1600-1700	1.82687E-02	2.66418E-07	2.15364E-03	1.99159E-02	2.90440E-07	2.34782E-03
120	1700-1800	1.51002E-02	2.62157E-07	2.11919E-03	1.65756E-02	2.87770E-07	2.32624E-03
120	1800-1900	1.11556E-02	2.02527E-07	1.63716E-03	1.23007E-02	2.23317E-07	1.80522E-03
120	1900-2000	1.23625E-02	1.63116E-07	1.31857E-03	1.36799E-02	1.80498E-07	1.45909E-03
120	2000-2100	1.15916E-02	1.16146E-07	9.38885E-04	1.26831E-02	1.27083E-07	1.02729E-03
120	2100-2200	1.22704E-02	1.26600E-07	1.02339E-03	1.34577E-02	1.38849E-07	1.12241E-03
120	2200-2300	1.28843E-02	9.71435E-08	7.85277E-04	1.41170E-02	1.06438E-07	8.60411E-04
120	2300-0000	8.64172E-03	4.45803E-08	3.60373E-04	9.42282E-03	4.86098E-08	3.92949E-04
118	0000-0100	1.19545E-02	3.67647E-08	1.62949E-04	1.31051E-02	4.03034E-08	1.78633E-04
118	0100-0200	9.04879E-03	1.43632E-08	6.36604E-05	9.92851E-03	1.57595E-08	6.98494E-05
118	0200-0300	1.27529E-02	1.13865E-08	5.04673E-05	1.38831E-02	1.23956E-08	5.49399E-05
118	0300-0400	1.78479E-02	1.41650E-08	6.27822E-05	1.96610E-02	1.56040E-08	6.91599E-05
118	0400-0500	2.30656E-02	1.83060E-08	8.11361E-05	2.51985E-02	1.99988E-08	8.86386E-05
118	0500-0600	2.24202E-02	3.78118E-08	1.67589E-04	2.44608E-02	4.12533E-08	1.82843E-04
118	0600-0700	1.60460E-02	1.19390E-07	5.29160E-04	1.76120E-02	1.31042E-07	5.80805E-04
118	0700-0800	1.31846E-02	2.19743E-07	9.73945E-04	1.44239E-02	2.40398E-07	1.06549E-03
118	0800-0900	1.59196E-02	3.22183E-07	1.42798E-03	1.73251E-02	3.50627E-07	1.55405E-03
118	0900-1000	1.81393E-02	3.04121E-07	1.34792E-03	1.96955E-02	3.30212E-07	1.46356E-03
118	1000-1100	1.95916E-02	2.70162E-07	1.19741E-03	2.13474E-02	2.94374E-07	1.30473E-03
118	1100-1200	1.84552E-02	2.47167E-07	1.09549			

Road ID	Hour	PM2.5 Emission			PM10 Emission		
		AnnualHourMin			AnnualHourMin		
		g/km/veh	g/s/m2	tonne/year	g/km/veh	g/s/m2	tonne/year
110	1500-1600	1.34577E-02	2.45657E-07	7.81809E-04	1.46571E-02	2.67549E-07	8.51482E-04
110	1600-1700	1.14589E-02	2.41000E-07	7.66987E-04	1.24907E-02	2.62702E-07	8.36055E-04
110	1700-1800	8.87296E-03	1.74290E-07	5.54683E-04	9.66751E-03	1.89897E-07	6.04353E-04
110	1800-1900	8.66360E-03	1.08295E-07	3.44651E-04	9.39037E-03	1.17380E-07	3.73563E-04
110	1900-2000	6.18457E-03	5.64464E-08	1.79642E-04	6.76561E-03	6.17496E-08	1.96519E-04
110	2000-2100	7.16859E-03	7.75175E-08	2.46701E-04	7.75982E-03	8.39107E-08	2.67048E-04
110	2100-2200	6.86667E-03	5.31349E-08	1.69103E-04	7.49972E-03	5.80335E-08	1.84693E-04
110	2200-2300	6.75931E-03	6.57155E-08	2.09141E-04	7.38020E-03	7.17520E-08	2.28352E-04
110	2300-0000	4.00519E-03	2.74165E-08	8.72535E-05	4.32794E-03	2.96258E-08	9.42847E-05
108	0000-0100	5.27267E-03	2.19694E-08	6.86238E-05	5.77181E-03	2.40492E-08	7.51201E-05
108	0100-0200	6.46291E-03	1.41056E-08	4.40601E-05	7.00518E-03	1.52891E-08	4.77570E-05
108	0200-0300	5.93271E-03	8.23988E-09	2.57381E-05	6.48171E-03	9.00238E-09	2.81198E-05
108	0300-0400	1.40412E-02	1.67157E-08	5.22131E-05	1.53007E-02	1.82151E-08	5.68966E-05
108	0400-0500	1.77488E-02	1.76079E-08	5.50001E-05	1.92808E-02	1.91278E-08	5.97475E-05
108	0500-0600	1.05294E-02	3.55157E-08	1.10937E-04	1.14274E-02	3.85446E-08	1.20398E-04
108	0600-0700	8.08118E-03	1.76375E-07	5.50925E-04	8.75452E-03	1.91071E-07	5.96829E-04
108	0700-0800	8.71798E-03	2.04112E-07	6.37563E-04	9.49664E-03	2.22342E-07	6.94508E-04
108	0800-0900	9.75125E-03	2.20564E-07	6.88954E-04	1.06136E-02	2.40069E-07	7.49880E-04
108	0900-1000	1.08681E-02	2.32889E-07	7.27452E-04	1.17902E-02	2.52647E-07	7.89168E-04
108	1000-1100	1.20018E-02	2.27414E-07	7.10351E-04	1.30229E-02	2.46764E-07	7.70792E-04
108	1100-1200	1.16436E-02	2.20628E-07	6.89154E-04	1.26871E-02	2.40401E-07	7.50917E-04
108	1200-1300	1.13800E-02	1.73861E-07	5.43071E-04	1.23849E-02	1.89214E-07	5.91030E-04
108	1300-1400	1.20093E-02	2.23983E-07	6.99632E-04	1.30776E-02	2.43908E-07	7.61871E-04
108	1400-1500	1.22551E-02	2.24919E-07	7.02558E-04	1.32951E-02	2.44008E-07	7.62183E-04
108	1500-1600	1.33607E-02	2.53163E-07	7.90781E-04	1.44989E-02	2.74731E-07	8.58150E-04
108	1600-1700	1.16047E-02	2.53277E-07	7.91137E-04	1.26347E-02	2.75757E-07	8.61355E-04
108	1700-1800	8.76965E-03	1.78351E-07	5.57097E-04	9.50788E-03	1.93365E-07	6.03994E-04
108	1800-1900	8.31778E-03	1.10574E-07	3.45388E-04	9.01351E-03	1.19822E-07	3.74277E-04
108	1900-2000	6.12464E-03	5.71147E-08	1.78403E-04	6.68951E-03	6.23823E-08	1.94857E-04
108	2000-2100	6.96656E-03	7.67151E-08	2.39627E-04	7.56133E-03	8.32647E-08	2.60086E-04
108	2100-2200	6.73965E-03	5.34893E-08	1.67079E-04	7.36125E-03	5.84226E-08	1.82489E-04
108	2200-2300	6.66258E-03	6.60970E-08	2.06461E-04	7.27486E-03	7.21712E-08	2.25434E-04
108	2300-0000	3.96363E-03	2.75252E-08	8.59777E-05	4.28269E-03	2.97409E-08	9.28986E-05
126	0000-0100	2.25612E-02	2.89246E-08	5.18800E-05	2.46305E-02	3.15776E-08	5.66386E-05
126	0100-0200	1.64437E-02	1.22977E-08	2.20574E-05	1.78834E-02	1.33743E-08	2.39886E-05
126	0200-0300	1.11268E-02	4.75503E-09	8.52877E-06	1.21032E-02	5.17232E-09	9.27722E-06
126	0300-0400	1.15124E-02	4.91981E-09	8.82432E-06	1.25001E-02	5.34194E-09	9.58147E-06
126	0400-0500	1.30505E-02	9.75997E-09	1.75058E-05	1.42047E-02	1.06231E-08	1.90540E-05
126	0500-0600	2.13645E-02	2.73904E-08	4.91282E-05	2.32406E-02	2.97956E-08	5.34423E-05
126	0600-0700	1.94483E-02	1.03890E-07	1.86341E-04	2.12293E-02	1.13404E-07	2.03405E-04
126	0700-0800	3.80064E-02	2.04059E-07	3.66007E-04	3.36053E-02	2.22599E-07	3.59261E-04
126	0800-0900	2.81410E-02	1.41307E-07	2.53452E-04	3.06631E-02	1.53971E-07	2.76166E-04
126	0900-1000	2.51196E-02	1.12716E-07	2.02171E-04	2.73383E-02	1.22672E-07	2.20028E-04
126	1000-1100	2.47090E-02	1.00314E-07	1.79927E-04	2.69576E-02	1.09443E-07	1.96301E-04
126	1100-1200	2.27503E-02	1.10632E-07	1.98432E-04	2.99455E-02	1.21574E-07	2.18058E-04
126	1200-1300	2.59354E-02	1.33002E-07	2.38557E-04	2.82612E-02	1.44929E-07	2.59949E-04
126	1300-1400	2.02594E-02	1.03894E-07	1.86348E-04	2.20495E-02	1.13075E-07	2.02814E-04
126	1400-1500	2.79722E-02	9.56315E-08	1.71528E-04	3.04509E-02	1.04106E-07	1.86727E-04
126	1500-1600	3.70322E-02	1.18693E-07	2.12891E-04	4.03004E-02	1.29168E-07	2.31680E-04
126	1600-1700	2.33835E-02	8.74382E-08	1.56832E-04	2.55608E-02	9.55798E-08	1.71435E-04
126	1700-1800	1.67850E-02	6.45576E-08	1.15792E-04	1.83092E-02	7.04200E-08	1.26307E-04
126	1800-1900	1.68708E-02	5.58755E-08	1.00220E-04	1.85624E-02	6.14781E-08	1.10269E-04
126	1900-2000	1.17654E-02	2.76538E-08	4.96007E-05	1.28364E-02	3.01711E-08	5.41157E-05
126	2000-2100	2.25497E-02	3.85465E-08	6.91381E-05	2.45850E-02	4.20257E-08	7.53785E-05
126	2100-2200	6.74242E-03	1.51272E-08	2.71327E-05	7.32385E-03	1.64317E-08	2.94724E-05
126	2200-2300	2.90935E-02	4.35159E-08	7.80515E-05	3.18012E-02	4.75659E-08	8.53157E-05
126	2300-0000	2.21713E-02	3.07935E-08	5.52321E-05	2.41980E-02	3.63083E-08	6.02809E-05
134	0000-0100	1.97822E-02	1.47944E-08	5.47138E-05	2.16622E-02	1.62004E-08	5.99138E-05
134	0100-0200	1.32640E-02	7.08546E-09	2.62041E-05	1.44254E-02	7.70587E-09	2.84986E-05
134	0200-0300	1.59110E-02	5.09967E-09	1.88601E-05	1.73043E-02	5.54626E-09	2.05117E-05
134	0300-0400	1.83223E-02	3.91502E-09	1.44789E-05	1.99307E-02	4.25869E-09	1.57499E-05
134	0400-0500	1.00687E-02	3.22714E-09	1.19349E-05	1.09460E-02	3.50835E-09	1.29749E-05
134	0500-0600	1.72828E-02	1.66181E-08	6.14585E-05	1.89358E-02	1.82075E-08	6.73366E-05
134	0600-0700	2.02734E-02	5.84810E-08	2.16280E-04	2.21716E-02	6.39567E-08	2.36531E-04
134	0700-0800	3.73667E-02	1.75655E-07	6.49625E-04	4.06106E-02	1.90904E-07	7.06021E-04
134	0800-0900	4.27727E-02	2.19347E-07	8.11210E-04	4.65844E-02	2.38894E-07	8.83501E-04
134	0900-1000	3.24445E-02	1.76781E-07	6.53787E-04	3.53725E-02	1.92735E-07	7.12790E-04
134	1000-1100	2.71502E-02	1.04424E-07	3.86190E-04	2.96154E-02	1.13905E-07	4.21256E-04
134	1100-1200	2.67828E-02	1.17318E-07	4.33876E-04	2.93219E-02	1.28440E-07	4.75009E-04
134	1200-1300	3.59372E-02	1.34381E-07	4.96979E-04	3.90959E-02	1.46192E-07	5.40660E-04
134	1300-1400	1.82993E-02	5.27864E-08	1.95219E-04	1.99499E-02	5.75479E-08	2.12829E-04
134	1400-1500	2.99441E-02	5.75849E-08	2.12966E-04	3.26230E-02	6.27366E-08	2.32018E-04
134	1500-1600	3.65923E-02	8.60075E-08	3.18081E-04	3.98873E-02	9.37521E-08	3.46723E-04
134	1600-1700	3.52944E-02	1.80997E-07	6.69380E-04	3.86694E-02	1.98305E-07	7.33389E-04

Road ID	Hour	PM2.5 Emission			PM10 Emission		
		AnnualHourMin			AnnualHourMin		
		g/km/veh	g/s/m2	tonne/year	g/km/veh	g/s/m2	tonne/year
134	1700-1800	2.23310E-02	1.02589E-07	3.79404E-04	2.44498E-02	1.12323E-07	4.15403E-04
134	1800-1900	2.16588E-02	5.09074E-08	1.88270E-04	2.36724E-02	5.56402E-08	2.05774E-04
134	1900-2000	1.80937E-02	2.51301E-08	9.29385E-05	1.96660E-02	2.73139E-08	1.01015E-04
134	2000-2100	4.17614E-02	4.46168E-08	1.65006E-04	4.55069E-02	4.86185E-08	1.79806E-04
134	2100-2200	8.37515E-03	6.26346E-09	2.31641E-05	9.09087E-03	6.79873E-09	2.51437E-05
134	2200-2300	3.31883E-02	3.19118E-08	1.18019E-04	3.63370E-02	3.49394E-08	1.29216E-04
134	2300-0000	2.76824E-02	1.77451E-08	6.56266E-05	3.02760E-02	1.94077E-08	7.17752E-05
138	0000-0100	1.99796E-02	1.92111E-08	5.36559E-05	2.18588E-02	2.10180E-08	5.87025E-05
138	0100-0200	1.37871E-02	7.36493E-09	2.05699E-05	1.49972E-02	8.01135E-09	2.23754E-05
138	0200-0300	1.49834E-02	6.40316E-09	1.78838E-05	1.62981E-02	6.96500E-09	1.94530E-05
138	0300-0400	1.93793E-02	4.14088E-09	1.15653E-05	2.10627E-02	4.50057E-09	1.25699E-05
138	0400-0500	6.19807E-03	2.64875E-09	7.39784E-06	6.73569E-03	2.87850E-09	8.03954E-06
138	0500-0600	2.65889E-02	2.84069E-08	7.93395E-05	2.91422E-02	3.11348E-08	8.69582E-05
138	0600-0700	2.42104E-02	9.31170E-08	2.60072E-04	2.64742E-02	1.01824E-07	2.84389E-04
138	0700-0800	3.80692E-02	1.95227E-07	5.45261E-04	4.14642E-02	2.12637E-07	5.93886E-04
138	0800-0900	3.76548E-02	1.93101E-07	5.39324E-04	4.09565E-02	2.10033E-07	5.86614E-04
138	0900-1000	3.45925E-02	1.58918E-07	4.43852E-04	3.76457E-02	1.72945E-07	4.83029E-04
138	1000-1100	2.93373E-02	1.19104E-07	3.32653E-04	3.19449E-02	1.29691E-07	3.62221E-04
138	1100-1200	2.64875E-02	1.10364E-07	3.08243E-04	2.89917E-02	1.20799E-07	3.37386E-04
138	1200-1300	3.46910E-02	1.51959E-07	4.24414E-04	3.77375E-02	1.65303E-07	4.61685E-04
138	1300-1400	2.19228E-02	8.43185E-08	2.35498E-04	2.39470E-02	9.21037E-08	2.57242E-04
138	1400-1500	2.86245E-02	1.03978E-07	2.90406E-04	3.11967E-02	1.13321E-07	3.16502E-04
138	1500-1600	3.93141E-02	1.26007E-07	3.51932			

Road ID	Hour	PM2.5 Emission			PM10 Emission		
		AnnualHourMin			AnnualHourMin		
		g/km/veh	g/s/m2	tonne/year	g/km/veh	g/s/m2	tonne/year
156	1900-2000	2.56517E-02	2.19246E-08	1.24528E-04	2.78911E-02	2.38386E-08	1.35399E-04
156	2000-2100	2.79514E-02	2.68763E-08	1.52653E-04	3.03955E-02	2.92264E-08	1.66001E-04
156	2100-2200	1.47014E-02	1.09946E-08	6.24476E-05	1.61586E-02	1.20844E-08	6.86374E-05
156	2200-2300	1.36907E-02	5.85071E-09	3.32310E-05	1.48959E-02	6.36576E-09	3.61564E-05
156	2300-0000	4.26463E-03	9.11247E-10	5.17572E-06	4.64736E-03	9.93025E-10	5.64021E-06
155	0000-0100	3.19848E-03	1.02515E-09	5.83141E-06	3.48552E-03	1.11715E-09	6.35474E-06
155	0100-0200	4.26463E-03	1.36687E-09	7.77521E-06	4.64736E-03	1.48954E-09	8.47299E-06
155	0200-0300	4.26463E-03	9.11247E-10	5.18347E-06	4.64736E-03	9.93025E-10	5.64866E-06
155	0300-0400	4.14463E-03	8.85606E-10	5.03762E-06	4.52736E-03	9.67384E-10	5.50280E-06
155	0400-0500	3.76229E-02	1.60781E-08	9.14578E-05	4.08906E-02	1.74746E-08	9.94015E-05
155	0500-0600	3.87365E-02	3.72466E-08	2.11871E-04	4.23725E-02	4.07428E-08	2.31759E-04
155	0600-0700	4.49903E-02	8.17132E-08	4.64812E-04	4.89169E-02	8.88448E-08	5.05378E-04
155	0700-0800	3.23922E-02	1.03821E-07	5.90569E-04	3.52572E-02	1.13004E-07	6.42803E-04
155	0800-0900	2.83337E-02	1.15030E-07	6.54329E-04	3.08242E-02	1.25141E-07	7.11844E-04
155	0900-1000	2.89017E-02	8.95460E-08	5.09367E-04	3.14095E-02	9.73156E-08	5.53564E-04
155	1000-1100	2.72961E-02	7.58226E-08	4.31304E-04	2.97695E-02	8.26932E-08	4.70386E-04
155	1100-1200	2.51347E-02	9.13011E-08	5.19351E-04	2.75919E-02	1.00227E-07	5.70124E-04
155	1200-1300	2.68059E-02	7.73248E-08	4.39849E-04	2.92230E-02	8.42970E-08	4.79509E-04
155	1300-1400	2.59731E-02	7.49224E-08	4.26183E-04	2.82542E-02	8.15024E-08	4.63613E-04
155	1400-1500	3.49700E-02	9.34027E-08	5.31305E-04	3.80746E-02	1.01695E-07	5.78475E-04
155	1500-1600	2.77857E-02	8.01509E-08	4.55925E-04	3.03842E-02	8.76467E-08	4.98563E-04
155	1600-1700	2.74745E-02	1.17413E-07	6.67881E-04	2.98980E-02	1.27769E-07	7.26793E-04
155	1700-1800	2.81245E-02	1.11176E-07	6.32405E-04	3.08256E-02	1.21853E-07	6.93143E-04
155	1800-1900	2.37743E-02	5.07999E-08	2.88967E-04	2.60817E-02	5.57300E-08	3.17011E-04
155	1900-2000	2.74458E-02	2.93224E-08	1.66796E-04	3.00729E-02	3.21292E-08	1.82762E-04
155	2000-2100	2.66424E-02	2.27713E-08	1.29531E-04	2.91282E-02	2.48959E-08	1.41616E-04
155	2100-2200	1.13647E-02	9.71339E-09	5.52530E-05	1.23648E-02	1.05682E-08	6.01156E-05
155	2200-2300	5.74973E-03	3.68572E-09	2.09656E-05	6.27483E-03	4.02233E-09	2.28803E-05
155	2300-0000	4.05809E-03	1.73423E-09	9.86487E-06	4.41690E-03	1.88756E-09	1.07371E-05
139	0000-0100	2.15573E-02	1.84250E-08	2.94283E-05	2.35842E-02	2.01574E-08	3.21952E-05
139	0100-0200	2.64465E-02	1.41274E-08	2.25642E-05	2.89873E-02	1.54846E-08	2.47319E-05
139	0200-0300	1.66072E-02	5.32281E-09	8.50154E-06	1.80672E-02	5.79077E-09	9.24895E-06
139	0300-0400	1.22495E-02	2.61741E-09	4.18050E-06	1.33370E-02	2.84978E-09	4.55163E-06
139	0400-0500	2.41024E-02	1.28752E-08	2.05641E-05	2.62150E-02	1.40037E-08	2.23666E-05
139	0500-0600	3.49772E-02	4.85795E-08	7.75907E-05	3.82722E-02	5.31558E-08	8.49000E-05
139	0600-0700	2.56448E-02	7.67153E-08	1.22529E-04	2.79270E-02	8.35423E-08	1.33433E-04
139	0700-0800	2.30495E-02	8.61893E-08	1.37661E-04	2.52597E-02	9.44540E-08	1.50861E-04
139	0800-0900	1.71960E-02	7.53245E-08	1.20307E-04	1.86595E-02	8.17351E-08	1.30546E-04
139	0900-1000	2.62582E-02	6.45233E-08	1.03056E-04	2.87166E-02	7.05643E-08	1.12705E-04
139	1000-1100	2.70918E-02	7.23606E-08	1.15574E-04	2.95753E-02	7.89937E-08	1.26168E-04
139	1100-1200	2.49623E-02	7.73403E-08	1.23527E-04	2.73179E-02	8.46389E-08	1.35184E-04
139	1200-1300	2.56404E-02	7.67020E-08	1.22508E-04	2.80221E-02	8.38269E-08	1.33888E-04
139	1300-1400	2.81593E-02	8.12287E-08	1.29738E-04	3.07714E-02	8.87636E-08	1.41772E-04
139	1400-1500	2.91016E-02	9.63834E-08	1.53943E-04	3.17187E-02	1.05051E-07	1.67787E-04
139	1500-1600	3.40698E-02	8.73585E-08	1.39528E-04	3.71147E-02	9.51659E-08	1.51998E-04
139	1600-1700	3.62176E-02	8.12574E-08	1.29783E-04	3.94997E-02	8.86212E-08	1.41545E-04
139	1700-1800	1.92263E-02	4.51900E-08	7.21770E-05	2.10736E-02	4.95319E-08	7.91118E-05
139	1800-1900	2.04740E-02	2.62488E-08	4.19243E-05	2.24485E-02	2.87802E-08	4.59674E-05
139	1900-2000	1.94650E-02	1.87163E-08	2.98935E-05	2.15713E-02	2.07417E-08	3.31284E-05
139	2000-2100	2.07405E-02	1.77269E-08	2.83133E-05	2.26967E-02	1.93989E-08	3.09837E-05
139	2100-2200	6.81133E-03	6.54935E-09	1.04606E-05	7.39978E-03	7.11517E-09	1.13643E-05
139	2200-2300	2.25457E-02	1.92698E-08	3.07775E-05	2.46583E-02	2.10755E-08	3.36615E-05
139	2300-0000	4.40586E-03	8.2427E-09	4.51090E-06	4.79080E-03	3.07102E-09	4.90501E-06
137	0000-0100	2.41835E-02	2.06697E-08	5.77288E-05	2.63905E-02	2.25559E-08	6.29970E-05
137	0100-0200	2.85399E-02	1.82948E-08	5.10959E-05	3.12216E-02	2.00138E-08	5.58971E-05
137	0200-0300	1.66072E-02	5.32281E-09	1.48662E-05	1.80672E-02	5.79077E-09	1.61731E-05
137	0300-0400	1.34095E-02	2.86527E-09	8.00248E-06	1.45960E-02	3.11879E-09	8.71054E-06
137	0400-0500	2.66880E-02	1.71077E-08	4.77805E-05	2.90248E-02	1.86056E-08	5.19640E-05
137	0500-0600	3.39779E-02	5.80820E-08	1.62218E-04	3.71770E-02	6.35504E-08	1.77491E-04
137	0600-0700	2.83091E-02	9.98078E-08	2.78755E-04	3.08326E-02	1.08705E-07	3.03603E-04
137	0700-0800	2.74855E-02	1.20396E-07	3.36256E-04	3.00879E-02	1.31795E-07	3.68094E-04
137	0800-0900	1.87741E-02	9.42718E-08	2.63294E-04	2.04076E-02	1.02474E-07	2.686201E-04
137	0900-1000	2.73140E-02	7.58723E-08	2.11905E-04	2.98472E-02	8.29088E-08	2.31558E-04
137	1000-1100	2.89722E-02	8.97643E-08	2.50704E-04	3.16350E-02	9.80145E-08	2.73747E-04
137	1100-1200	2.49275E-02	9.05484E-08	2.52895E-04	2.72420E-02	9.89560E-08	2.76376E-04
137	1200-1300	2.69489E-02	9.21331E-08	2.57320E-04	2.94380E-02	1.00643E-07	2.81087E-04
137	1300-1400	2.84853E-02	9.73857E-08	2.71990E-04	3.10486E-02	1.06149E-07	2.96466E-04
137	1400-1500	2.96441E-02	1.14016E-07	3.18437E-04	3.22987E-02	1.24226E-07	3.46952E-04
137	1500-1600	3.37556E-02	1.04585E-07	2.92097E-04	3.67896E-02	1.13985E-07	3.18351E-04
137	1600-1700	4.22821E-02	1.12933E-07	3.15413E-04	4.60736E-02	1.23060E-07	3.43696E-04
137	1700-1800	2.16668E-02	5.78706E-08	1.61628E-04	2.37056E-02	6.33163E-08	1.76837E-04
137	1800-1900	2.41062E-02	3.60563E-08	1.00702E-04	2.63694E-02	3.94414E-08	1.10157E-04
137	1900-2000	2.22545E-02	2.37762E-08	6.64049E-05	2.45278E-02	2.62049E-08	7.31882E-05
137	2000-2100	2.39885E-02	2.30659E-08	6.44211E-05	2.61715E-02	2.51649E-08	7.02835E-05

Road ID	Hour	PM2.5 Emission			PM10 Emission		
		AnnualHourMin			AnnualHourMin		
		g/km/veh	g/s/m2	tonne/year	g/km/veh	g/s/m2	tonne/year
137	2100-2200	6.47937E-03	7.61464E-09	2.12671E-05	7.03971E-03	8.27317E-09	2.31063E-05
137	2200-2300	2.48771E-02	2.39203E-08	6.68074E-05	2.71745E-02	2.61293E-08	7.29770E-05
137	2300-0000	8.94738E-03	6.69142E-09	1.86886E-05	9.72176E-03	7.27055E-09	2.03601E-05
133	0000-0100	2.35332E-02	1.50854E-08	5.57896E-05	2.57754E-02	1.65227E-08	6.11052E-05
133	0100-0200	3.04349E-02	1.62580E-08	6.01261E-05	3.33164E-02	1.77972E-08	6.58187E-05
133	0200-0300	1.66072E-02	5.32281E-09	1.96851E-05	1.80672E-02	5.79077E-09	2.14157E-05
133	0300-0400	1.56084E-02	3.33513E-09	1.23341E-05	1.69760E-02	3.62736E-09	1.34149E-05
133	0400-0500	3.28445E-02	1.75451E-08	6.48863E-05	3.57147E-02	1.90784E-08	7.05567E-05
133	0500-0600	3.41850E-02	4.38270E-08	1.62083E-04	3.73780E-02	4.79205E-08	1.77222E-04
133	0600-0700	2.86607E-02	9.18611E-08	3.39726E-04	3.12716E-02	1.00230E-07	3.70674E-04
133	0700-0800	2.74094E-02	1.14206E-07	4.22362E-04	2.99935E-02	1.24973E-07	4.62182E-04
133	0800-0900	2.24188E-02	1.02992E-07	3.80891E-04	2.44299E-02	1.12231E-07	4.15060E-04
133	0900-1000	2.63897E-02	6.48465E-08	2.39819E-04	2.88114E-02	7.07972E-08	2.61826E-04
133	1000-1100	2.62087E-02	7.00018E-08	2.58884E-04	2.86100E-02	7.64157E-08	2.82605E-04
133	1100-1200	2.47833E-02	7.14903E-08	2.64389E-04	2.71324E-02	7.82667E-08	2.89450E-04
133	1200-1300	2.56896E-02	8.23384E-08	3.04508E-04	2.80415E-02	8.98764E-08	3.32386E-04
133	1300-1400	2.69614E-02	8.92954E-08	3.30237E-04	2.93936E-02	9.73507E-08	3.60027E-04
133	1400-1500	2.57538E-02	1.01805E-07	3.76499E-04	2.81016E-02	1.11086E-07	4.10823E-04
133	1500-1600	3.05266E-02	9.45804E-08	3.49782E-04	3.33180E-02	1.03229E-07	3.81766E-04
133	1600-1700	3.50807E-02	9.36984E-08	3.46520E-04	3.82411E-02	1.02140E-07	3.77738E-04
133	1700-1800	2.32167E-02	5.45692E-08	2.01811E-04	2.54383E-02	5.97909E-08	2.21122E-04
133	1800-1900	2.50924E-02	4.02122E-08	1.48715E-04	2.74347E-02	4.39659E-08	1.62597E-04
133	1900-2000	2.09533E-02	2.23860E-08	8.27891			

Road ID	Hour	PM2.5 Emission			PM10 Emission		
		AnnualHourMin			AnnualHourMin		
		g/km/veh	g/s/m2	tonne/year	g/km/veh	g/s/m2	tonne/year
145	2300-0000	2.14567E-02	1.60467E-08	4.64624E-05	2.33215E-02	1.74413E-08	5.05005E-05
143	0000-0100	2.02670E-02	1.51569E-08	3.08104E-05	2.22057E-02	1.66068E-08	3.37577E-05
143	0100-0200	2.85465E-02	1.21994E-08	2.47984E-05	3.13107E-02	1.33806E-08	2.71996E-05
143	0200-0300	1.95504E-02	4.17744E-09	8.49173E-06	2.12641E-02	4.54361E-09	9.23607E-06
143	0300-0400	1.86054E-02	3.97551E-09	8.08126E-06	2.02470E-02	4.32629E-09	8.79430E-06
143	0400-0500	1.66875E-02	8.91427E-09	1.81205E-05	1.81361E-02	9.68806E-09	1.96935E-05
143	0500-0600	2.67258E-02	3.71191E-08	7.54542E-05	2.91279E-02	4.04554E-08	8.22360E-05
143	0600-0700	2.79613E-02	1.55341E-07	3.15770E-04	3.05499E-02	1.69722E-07	3.45003E-04
143	0700-0800	2.25973E-02	1.95553E-07	3.97512E-04	2.46540E-02	2.13352E-07	4.33693E-04
143	0800-0900	1.33325E-02	1.05406E-07	2.14266E-04	1.45337E-02	1.14903E-07	2.33570E-04
143	0900-1000	2.28776E-02	9.04351E-08	1.83833E-04	2.49427E-02	9.85983E-08	2.00427E-04
143	1000-1100	2.49372E-02	1.27883E-07	2.59956E-04	2.73906E-02	1.40465E-07	2.85531E-04
143	1100-1200	2.17961E-02	8.38312E-08	1.70409E-04	2.38295E-02	9.16520E-08	1.86306E-04
143	1200-1300	1.94048E-02	1.09878E-07	2.23355E-04	2.11785E-02	1.19921E-07	2.43771E-04
143	1300-1400	2.83932E-02	1.21338E-07	2.46651E-04	3.10299E-02	1.32606E-07	2.69556E-04
143	1400-1500	2.49305E-02	1.25185E-07	2.54471E-04	2.71235E-02	1.36197E-07	2.76856E-04
143	1500-1600	2.83655E-02	1.18190E-07	2.40251E-04	3.09189E-02	1.28829E-07	2.61877E-04
143	1600-1700	4.45459E-02	1.76090E-07	3.57948E-04	4.85308E-02	1.91842E-07	3.89968E-04
143	1700-1800	2.60334E-02	7.23149E-08	1.46999E-04	2.83741E-02	7.88170E-08	1.60216E-04
143	1800-1900	1.85736E-02	4.16715E-08	8.47082E-05	2.02872E-02	4.55161E-08	9.25231E-05
143	1900-2000	1.82900E-02	2.54028E-08	5.16378E-05	2.00718E-02	2.78776E-08	5.66683E-05
143	2000-2100	1.86080E-02	2.58445E-08	5.25356E-05	2.02264E-02	2.80922E-08	5.71047E-05
143	2100-2200	9.87822E-03	1.47751E-08	3.00342E-05	1.08936E-02	1.62938E-08	3.31213E-05
143	2200-2300	3.05526E-02	3.26416E-08	6.63526E-05	3.33117E-02	3.55894E-08	7.23446E-05
143	2300-0000	1.39815E-02	5.97501E-09	1.21457E-05	1.51865E-02	6.48995E-09	1.31925E-05
141	0000-0100	2.09230E-02	1.56475E-08	1.91118E-05	2.28891E-02	1.71180E-08	2.09077E-05
141	0100-0200	2.85465E-02	1.21994E-08	1.49002E-05	3.13107E-02	1.33806E-08	1.63430E-05
141	0200-0300	1.95504E-02	4.17744E-09	5.10230E-06	2.12641E-02	4.54361E-09	5.54954E-06
141	0300-0400	1.98904E-02	4.25009E-09	5.19102E-06	2.16420E-02	4.62437E-09	5.64817E-06
141	0400-0500	1.75039E-02	9.35038E-09	1.14205E-05	1.90321E-02	1.01667E-08	1.24175E-05
141	0500-0600	2.63841E-02	3.66446E-08	4.47574E-05	2.87733E-02	3.99629E-08	4.88104E-05
141	0600-0700	2.68745E-02	1.49303E-07	1.82357E-04	2.93684E-02	1.63158E-07	1.99280E-04
141	0700-0800	2.16557E-02	1.85091E-07	2.26069E-04	2.36390E-02	2.02043E-07	2.46773E-04
141	0800-0900	1.35265E-02	1.06940E-07	1.30616E-04	1.47276E-02	1.16436E-07	1.42215E-04
141	0900-1000	2.22975E-02	8.81419E-08	1.07656E-04	2.43158E-02	9.61201E-08	1.17400E-04
141	1000-1100	2.49372E-02	1.27883E-07	1.56196E-04	2.73906E-02	1.40465E-07	1.71563E-04
141	1100-1200	2.17961E-02	8.38312E-08	1.02391E-04	2.38295E-02	9.16520E-08	1.11943E-04
141	1200-1300	1.94048E-02	1.09878E-07	1.34204E-04	2.11785E-02	1.19921E-07	1.46471E-04
141	1300-1400	2.83932E-02	1.21338E-07	1.48202E-04	3.10299E-02	1.32606E-07	1.61964E-04
141	1400-1500	2.49305E-02	1.25185E-07	1.52900E-04	2.71235E-02	1.36197E-07	1.66350E-04
141	1500-1600	2.83932E-02	1.19795E-07	1.46317E-04	3.13249E-02	1.30520E-07	1.59417E-04
141	1600-1700	4.11517E-02	1.58276E-07	1.93317E-04	4.48591E-02	1.72535E-07	2.10733E-04
141	1700-1800	2.29137E-02	6.36491E-08	7.77406E-05	2.49784E-02	6.93843E-08	8.47455E-05
141	1800-1900	1.85736E-02	4.16715E-08	5.08973E-05	2.02872E-02	4.55161E-08	5.55930E-05
141	1900-2000	1.81016E-02	2.51411E-08	3.07071E-05	1.98428E-02	2.75594E-08	3.36608E-05
141	2000-2100	1.84100E-02	2.55695E-08	3.12304E-05	1.99995E-02	2.77771E-08	3.39267E-05
141	2100-2200	9.99622E-03	1.49516E-08	1.82618E-05	1.10186E-02	1.64807E-08	2.01295E-05
141	2200-2300	3.05526E-02	3.26416E-08	3.98683E-05	3.33117E-02	3.55894E-08	4.34686E-05
141	2300-0000	1.41765E-02	6.05834E-09	7.39961E-06	1.53930E-02	6.57820E-09	8.03456E-06
142	0000-0100	1.86840E-02	1.59693E-08	1.92392E-05	2.04395E-02	1.74696E-08	2.10468E-05
142	0100-0200	1.83763E-02	7.85313E-09	9.46118E-06	1.99752E-02	8.53640E-09	1.02844E-05
142	0200-0300	1.38010E-02	4.42341E-09	5.32917E-06	1.49890E-02	4.80415E-09	5.78788E-06
142	0300-0400	1.87597E-02	6.01273E-09	7.24392E-06	2.03723E-02	6.52958E-09	7.86661E-06
142	0400-0500	3.76921E-02	1.61077E-08	1.94061E-05	4.09604E-02	1.75044E-08	2.10887E-05
142	0500-0600	3.55272E-02	3.79564E-08	4.57286E-05	3.86199E-02	4.12606E-08	4.97093E-05
142	0600-0700	2.76610E-02	1.32986E-07	1.60217E-04	3.02671E-02	1.45515E-07	1.75312E-04
142	0700-0800	3.26127E-02	2.33446E-07	2.81247E-04	3.54794E-02	2.53966E-07	3.05970E-04
142	0800-0900	2.84391E-02	1.82302E-07	2.19631E-04	3.09056E-02	1.98113E-07	2.38679E-04
142	0900-1000	2.95422E-02	1.64123E-07	1.97730E-04	3.21320E-02	1.78511E-07	2.15064E-04
142	1000-1100	2.39306E-02	1.50845E-07	1.81733E-04	2.61873E-02	1.65069E-07	1.98870E-04
142	1100-1200	2.27873E-02	1.29031E-07	1.55452E-04	2.49587E-02	1.41326E-07	1.70265E-04
142	1200-1300	2.72922E-02	1.57455E-07	1.89696E-04	2.97212E-02	1.71469E-07	2.06580E-04
142	1300-1400	2.40725E-02	1.13161E-07	1.36333E-04	2.62696E-02	1.23490E-07	1.48776E-04
142	1400-1500	2.59782E-02	1.22120E-07	1.47125E-04	2.83424E-02	1.33233E-07	1.60515E-04
142	1500-1600	3.87758E-02	1.26048E-07	1.51858E-04	3.14077E-02	1.37577E-07	1.65748E-04
142	1600-1700	3.13011E-02	2.44122E-07	2.94109E-04	3.42389E-02	2.67034E-07	3.21713E-04
142	1700-1800	2.21736E-02	1.42139E-07	1.71244E-04	2.42137E-02	1.55216E-07	1.86999E-04
142	1800-1900	2.12442E-02	7.71690E-08	9.29706E-05	2.33208E-02	8.47121E-08	1.02058E-04
142	1900-2000	1.96933E-02	3.99758E-08	4.81614E-05	2.15219E-02	4.36876E-08	5.26333E-05
142	2000-2100	2.96260E-02	4.43123E-08	5.33860E-05	3.22850E-02	4.82895E-08	5.81775E-05
142	2100-2200	9.16152E-03	1.27243E-08	1.53298E-05	1.00373E-02	1.39407E-08	1.67953E-05
142	2200-2300	3.24262E-02	4.50364E-08	5.42583E-05	3.54188E-02	4.91928E-08	5.92658E-05
142	2300-0000	2.74236E-02	2.34390E-08	2.82385E-05	2.99425E-02	2.55919E-08	3.08322E-05
144	0000-0100	1.63314E-02	1.22136E-08	2.49317E-05	1.78963E-02	1.33840E-08	2.73207E-05

Road ID	Hour	PM2.5 Emission			PM10 Emission		
		AnnualHourMin			AnnualHourMin		
		g/km/veh	g/s/m2	tonne/year	g/km/veh	g/s/m2	tonne/year
144	0100-0200	1.11994E-02	4.78605E-09	9.76976E-06	1.21741E-02	5.20262E-09	1.06201E-05
144	0200-0300	1.38010E-02	4.42341E-09	9.02950E-06	1.49890E-02	4.80415E-09	9.80671E-06
144	0300-0400	1.83150E-02	5.87020E-09	1.19828E-05	1.98996E-02	6.37809E-09	1.30196E-05
144	0400-0500	3.11502E-02	1.33120E-08	2.71738E-05	3.38658E-02	1.44726E-08	2.95429E-05
144	0500-0600	3.23418E-02	3.45532E-08	7.05335E-05	3.51431E-02	3.75460E-08	7.66426E-05
144	0600-0700	2.57989E-02	1.24033E-07	2.53189E-04	2.82437E-02	1.35787E-07	2.77181E-04
144	0700-0800	3.17840E-02	2.24118E-07	4.57491E-04	3.45636E-02	2.43718E-07	4.97501E-04
144	0800-0900	2.81753E-02	1.77601E-07	3.62537E-04	3.06258E-02	1.93047E-07	3.94068E-04
144	0900-1000	2.92574E-02	1.62541E-07	3.31795E-04	3.18305E-02	1.76836E-07	3.60975E-04
144	1000-1100	2.34517E-02	1.47826E-07	3.01757E-04	2.56666E-02	1.61787E-07	3.30257E-04
144	1100-1200	2.17333E-02	1.23063E-07	2.51208E-04	2.38134E-02	1.34841E-07	2.75250E-04
144	1200-1300	2.54324E-02	1.46726E-07	2.99511E-04	2.77069E-02	1.59847E-07	3.26296E-04
144	1300-1400	2.34454E-02	1.10214E-07	2.24979E-04	2.55875E-02	1.20283E-07	2.45534E-04
144	1400-1500	2.51699E-02	1.15631E-07	2.36037E-04	2.74670E-02	1.26184E-07	2.57579E-04
144	1500-1600	2.81028E-02	1.23100E-07	2.51283E-04	3.06757E-02	1.34370E-07	2.74290E-04
144	1600-1700	3.00894E-02	2.31457E-07	4.72473E-04	3.29351E-02	2.53347E-07	5.17157E-04
144	1700-1800	2.09299E-02	1.34166E-07	2.73873E-04	2.28620E-02	1.46551E-07	2.99155E-04
144	1800-1900	1.87796E-02	6.82165E-08	1.39250E-04	2.06426E-02	7.49839E-08	1.53065E-04
144	1900-2000	1.80246E-02	3.65884E-08	7.46878E-05	1.97119E-02	4.00134E-08	8.16793E-05
144	2000-2100	2.69503E-02	4.03102E-08	8.22852E-05	2.93698E-02	4.39292E-08	8.96726E-05
144	2100-2200	9.23906E-03	1.28320E-08	2.61940E-05	1.01327E-02	1.40732E-08	2.87276E-05
144	2200-2300	3.03038E-02	4.20886E-08	8.59154E-05	3.31102E-02	4.59864E-08	9.38720E-05
144	2300-0000	2.33842E-02	1.99865E-08	4.07984			

Road ID	Hour	PM2.5 Emission			PM10 Emission		
		AnnualHourMin			AnnualHourMin		
		g/km/veh	g/s/m2	tonne/year	g/km/veh	g/s/m2	tonne/year
147	0300-0400	4.83563E-02	2.06651E-08	2.15396E-05	5.25472E-02	2.24561E-08	2.34064E-05
147	0400-0500	1.33124E-02	5.68908E-09	5.92982E-06	1.44171E-02	6.16114E-09	6.42186E-06
147	0500-0600	4.87293E-02	4.68551E-08	4.88379E-05	5.29864E-02	5.09485E-08	5.31045E-05
147	0600-0700	4.31053E-02	2.53290E-07	2.64008E-04	4.72554E-02	2.77676E-07	2.89426E-04
147	0700-0800	3.49727E-02	3.54958E-07	3.69979E-04	3.81044E-02	3.86743E-07	4.03109E-04
147	0800-0900	3.24554E-02	2.42722E-07	2.52994E-04	3.54395E-02	2.65039E-07	2.76255E-04
147	0900-1000	2.24720E-02	1.15241E-07	1.20118E-04	2.46706E-02	1.26516E-07	1.31869E-04
147	1000-1100	4.40991E-02	2.26149E-07	2.35719E-04	4.81442E-02	2.46893E-07	2.57341E-04
147	1100-1200	4.47223E-02	2.29345E-07	2.39051E-04	4.87440E-02	2.49969E-07	2.60547E-04
147	1200-1300	4.37389E-02	1.72900E-07	1.80216E-04	4.77211E-02	1.88641E-07	1.96624E-04
147	1300-1400	4.34070E-02	1.76225E-07	1.83682E-04	4.73492E-02	1.92230E-07	2.00364E-04
147	1400-1500	4.29874E-02	1.60744E-07	1.67546E-04	4.69135E-02	1.75424E-07	1.82848E-04
147	1500-1600	8.34357E-02	2.76336E-07	2.88030E-04	9.08693E-02	3.00956E-07	3.13692E-04
147	1600-1700	9.03164E-02	3.85968E-07	4.02301E-04	9.82345E-02	4.19806E-07	4.37571E-04
147	1700-1800	5.45932E-02	1.69145E-07	1.76303E-04	5.94380E-02	1.84156E-07	1.91949E-04
147	1800-1900	2.84488E-02	7.29456E-08	7.60324E-05	3.11754E-02	7.99368E-08	8.33195E-05
147	1900-2000	4.53280E-02	1.40439E-07	1.46382E-04	4.94878E-02	1.53327E-07	1.59816E-04
147	2000-2100	3.96253E-02	8.89030E-08	9.26651E-05	4.32566E-02	9.70502E-08	1.01157E-04
147	2100-2200	4.34737E-02	9.28925E-08	9.68235E-05	4.74437E-02	1.01375E-07	1.05665E-04
147	2200-2300	3.59820E-02	6.91962E-08	7.21243E-05	3.93252E-02	7.56254E-08	7.88257E-05
147	2300-0000	3.78422E-02	4.85156E-08	5.05686E-05	4.14452E-02	5.31349E-08	5.53834E-05
129	0000-0100	5.11815E-02	3.28087E-08	2.61302E-04	5.60371E-02	3.59212E-08	2.86092E-04
129	0100-0200	4.97680E-02	3.19026E-08	2.54086E-04	5.41163E-02	3.46899E-08	2.76285E-04
129	0200-0300	4.20030E-02	1.34625E-08	1.07221E-04	4.56450E-02	1.46298E-08	1.16518E-04
129	0300-0400	5.11089E-02	1.63811E-08	1.30466E-04	5.55711E-02	1.78112E-08	1.41856E-04
129	0400-0500	1.35438E-02	4.34096E-09	3.45733E-05	1.47282E-02	4.72057E-09	3.75966E-05
129	0500-0600	5.22872E-02	3.35174E-08	2.66947E-04	5.68657E-02	3.64524E-08	2.90322E-04
129	0600-0700	4.52327E-02	1.54642E-07	1.23163E-04	4.94953E-02	1.69215E-07	1.34770E-03
129	0700-0800	3.70902E-02	2.61533E-07	2.08296E-03	4.03401E-02	2.84449E-07	2.26547E-03
129	0800-0900	3.06215E-02	2.15921E-07	1.71969E-03	3.34741E-02	2.36035E-07	1.87989E-03
129	0900-1000	2.45086E-02	1.23066E-07	9.80153E-04	2.69005E-02	1.35077E-07	1.07581E-03
129	1000-1100	4.30575E-02	1.70206E-07	1.35559E-03	4.70509E-02	1.85992E-07	1.48132E-03
129	1100-1200	3.94164E-02	1.64235E-07	1.30804E-03	4.29890E-02	1.79121E-07	1.42659E-03
129	1200-1300	3.95185E-02	1.30884E-07	1.04242E-03	4.31384E-02	1.42873E-07	1.13790E-03
129	1300-1400	4.09101E-02	1.26751E-07	1.00950E-03	4.46676E-02	1.38393E-07	1.10222E-03
129	1400-1500	4.15083E-02	1.19735E-07	9.53624E-04	4.53326E-02	1.30767E-07	1.04148E-03
129	1500-1600	9.05455E-02	2.12821E-07	1.69499E-03	9.86357E-02	2.31836E-07	1.84644E-03
129	1600-1700	9.40955E-02	3.01588E-07	2.40198E-03	1.02347E-01	3.28035E-07	2.61261E-03
129	1700-1800	6.56288E-02	1.40233E-07	1.11687E-03	7.13211E-02	1.52396E-07	1.21374E-03
129	1800-1900	3.16969E-02	5.75691E-08	4.58504E-04	3.45851E-02	6.28148E-08	5.00284E-04
129	1900-2000	4.67424E-02	1.09865E-07	8.75008E-04	5.10751E-02	1.20048E-07	9.56115E-04
129	2000-2100	4.14113E-02	7.07885E-08	5.63789E-04	4.52412E-02	7.73355E-08	6.15932E-04
129	2100-2200	4.64248E-02	7.43987E-08	5.92542E-04	5.06979E-02	8.12466E-08	6.47082E-04
129	2200-2300	3.85927E-02	5.36010E-08	4.26901E-04	4.22011E-02	5.86127E-08	4.66816E-04
129	2300-0000	3.76099E-02	3.61633E-08	2.88020E-04	4.12746E-02	3.96872E-08	3.16085E-04
127	0000-0100	3.44195E-02	2.57411E-08	7.10133E-05	3.76017E-02	2.81210E-08	7.75789E-05
127	0100-0200	2.30660E-02	1.47859E-08	4.07907E-05	2.50989E-02	1.60891E-08	4.43858E-05
127	0200-0300	9.21232E-03	2.95267E-09	8.14568E-06	1.00237E-02	3.21272E-09	8.86310E-06
127	0300-0400	3.09208E-02	1.32140E-08	3.64543E-05	3.36207E-02	1.43678E-08	3.96373E-05
127	0400-0500	3.18448E-02	1.36089E-08	3.75436E-05	3.46207E-02	1.47952E-08	4.08162E-05
127	0500-0600	2.83197E-02	1.81537E-08	5.00816E-05	3.08105E-02	1.97503E-08	5.44863E-05
127	0600-0700	3.41859E-02	1.64355E-07	4.53416E-04	3.73635E-02	1.79632E-07	4.95561E-04
127	0700-0800	2.11302E-02	1.15133E-07	3.17623E-04	2.29686E-02	1.25149E-07	3.45256E-04
127	0800-0900	3.61940E-02	2.32013E-07	6.40068E-04	3.93225E-02	2.52068E-07	6.95393E-04
127	0900-1000	4.02893E-02	1.89394E-07	5.22493E-04	4.38066E-02	2.05929E-07	5.68107E-04
127	1000-1100	5.43145E-02	1.68282E-07	4.64250E-04	5.91945E-02	1.83402E-07	5.05960E-04
127	1100-1200	5.64491E-02	1.56803E-07	4.32581E-04	6.14507E-02	1.70697E-07	4.70910E-04
127	1200-1300	6.13305E-02	1.17943E-07	3.25377E-04	6.68334E-02	1.28526E-07	3.54571E-04
127	1300-1400	4.58579E-02	1.17584E-07	3.24386E-04	4.99441E-02	1.28062E-07	3.53291E-04
127	1400-1500	6.21218E-02	1.72561E-07	4.76052E-04	6.76034E-02	1.87787E-07	5.18059E-04
127	1500-1600	7.83541E-02	4.43672E-07	1.22398E-03	8.53459E-02	4.83262E-07	1.33320E-03
127	1600-1700	5.00888E-02	2.72920E-07	7.52919E-04	5.46130E-02	2.97571E-07	8.20925E-04
127	1700-1800	2.61253E-02	7.81526E-08	2.15604E-04	2.83581E-02	8.48319E-08	2.34031E-04
127	1800-1900	3.17253E-02	4.40629E-08	1.21559E-04	3.44498E-02	4.78469E-08	1.31998E-04
127	1900-2000	2.34169E-02	5.75414E-08	1.58743E-04	2.55383E-02	6.27543E-08	1.73124E-04
127	2000-2100	2.20480E-02	4.00444E-08	1.10473E-04	2.40157E-02	4.36182E-08	1.20332E-04
127	2100-2200	2.16070E-02	3.69351E-08	1.01895E-04	2.35376E-02	4.02352E-08	1.10999E-04
127	2200-2300	2.33495E-02	3.49245E-08	9.63482E-05	2.54622E-02	3.80845E-08	1.05066E-04
127	2300-0000	1.98441E-02	2.12010E-08	5.84884E-05	2.17039E-02	2.31879E-08	6.39699E-05
128	0000-0100	4.01752E-02	4.72144E-08	1.29850E-04	4.37836E-02	5.14551E-08	1.41513E-04
128	0100-0200	3.06930E-02	2.29541E-08	6.31288E-05	3.33676E-02	2.49544E-08	6.86300E-05
128	0200-0300	5.41275E-02	1.73486E-08	4.77123E-05	5.88272E-02	1.88549E-08	5.18549E-05
128	0300-0400	5.10962E-02	2.18360E-08	6.00536E-05	5.55538E-02	2.37410E-08	6.52927E-05
128	0400-0500	3.23863E-02	1.03802E-08	2.85479E-05	3.52137E-02	1.12864E-08	3.10401E-05

Road ID	Hour	PM2.5 Emission			PM10 Emission		
		AnnualHourMin			AnnualHourMin		
		g/km/veh	g/s/m2	tonne/year	g/km/veh	g/s/m2	tonne/year
128	0500-0600	5.68788E-02	4.25375E-08	1.16987E-04	6.18349E-02	4.62441E-08	1.27181E-04
128	0600-0700	5.42481E-02	2.08647E-07	5.73823E-04	5.89441E-02	2.26708E-07	6.23496E-04
128	0700-0800	4.50827E-02	1.97478E-07	5.43106E-04	4.91592E-02	2.15334E-07	5.92215E-04
128	0800-0900	5.24887E-02	1.17763E-07	3.23874E-04	5.72675E-02	1.28485E-07	3.53361E-04
128	0900-1000	4.65461E-02	9.94575E-08	2.73529E-04	5.05729E-02	1.08062E-07	2.97193E-04
128	1000-1100	7.97157E-02	1.95883E-07	5.38720E-04	8.67455E-02	2.13157E-07	5.86227E-04
128	1100-1200	6.84680E-02	1.97504E-07	5.43178E-04	7.44891E-02	2.14872E-07	5.90945E-04
128	1200-1300	6.19584E-02	1.58868E-07	4.36920E-04	6.74752E-02	1.73013E-07	4.75824E-04
128	1300-1400	5.19823E-02	1.77717E-07	4.88760E-04	5.65477E-02	1.93326E-07	5.31687E-04
128	1400-1500	5.21835E-02	1.78405E-07	4.90652E-04	5.70112E-02	1.94910E-07	5.36045E-04
128	1500-1600	4.84680E-02	2.23776E-07	6.15433E-04	4.74636E-02	2.43403E-07	6.69411E-04
128	1600-1700	3.77837E-02	1.69542E-07	4.66277E-04	4.10427E-02	1.84166E-07	5.06496E-04
128	1700-1800	2.34089E-02	1.02539E-07	2.82004E-04	2.54573E-02	1.11512E-07	3.06681E-04
128	1800-1900	2.32240E-02	8.93230E-08	2.45657E-04	2.52420E-02	9.70847E-08	2.67004E-04
128	1900-2000	4.86157E-02	1.45431E-07	3.99968E-04	5.29000E-02	1.58248E-07	4.35216E-04
128	2000-2100	3.98143E-02	7.23123E-08	1.98874E-04	4.33409E-02	7.87175E-08	2.16490E-04
128	2100-2200	4.13224E-02	6.62218E-08	1.82124E-04	4.49858E-02	7.20926E-08	1.98270E-04
128	2200-2300	3.63490E-02	5.04847E-08	1.38844E-04	3.95720E-02	5.49611E-08	1.51155E-04
128	2300-0000	3.59939E-02	3.84550E-08	1.05760E-04	3.92547E-02	4.19388E-08	1.15341E-04
130	0000-0100	3.00291E-02	2.24576E-08	1.73617E-04	3.26422E-02	2.44119E-08	1.88725E-04
130	0100-0200	3.64495E-02	1.94709E-08	1.50527E-04	3.96251E-02	2.11672E-08	1.63641E-04
130	0200-0300	1.69272E-02	3.61693E-09	2.79620E-05	1.84068E-02	3.93307E-09	3.04060E-05
130	0300-0400	1.63132E-02	3.48573E-09	2.69478			

Road ID	Hour	PM2.5 Emission			PM10 Emission		
		AnnualHourMin			AnnualHourMin		
		g/km/veh	g/s/m2	tonne/year	g/km/veh	g/s/m2	tonne/year
152	0700-0800	3.65322E-02	6.24483E-08	1.38152E-04	3.97975E-02	6.80299E-08	1.50500E-04
152	0800-0900	3.33556E-02	1.17600E-07	2.60163E-04	3.62806E-02	1.27912E-07	2.82977E-04
152	0900-1000	2.90626E-02	8.38345E-08	1.85464E-04	3.15906E-02	9.11268E-08	2.01597E-04
152	1000-1100	3.81982E-02	8.16201E-08	1.80566E-04	4.17033E-02	8.91097E-08	1.97134E-04
152	1100-1200	3.72195E-02	7.55525E-08	1.67142E-04	4.06507E-02	8.25175E-08	1.82551E-04
152	1200-1300	2.96685E-02	5.70547E-08	1.26220E-04	3.24591E-02	6.24213E-08	1.38093E-04
152	1300-1400	2.90060E-02	5.57807E-08	1.23402E-04	3.17321E-02	6.10233E-08	1.35000E-04
152	1400-1500	2.37273E-02	4.30945E-08	9.53366E-05	2.60038E-02	4.72291E-08	1.04483E-04
152	1500-1600	2.17671E-02	5.11620E-08	1.13184E-04	2.39214E-02	5.62256E-08	1.24386E-04
152	1600-1700	3.37569E-02	1.26228E-07	2.79249E-04	3.72876E-02	1.39430E-07	3.08457E-04
152	1700-1800	2.07566E-02	6.43101E-08	1.42271E-04	2.25687E-02	6.99243E-08	1.54691E-04
152	1800-1900	2.51698E-02	7.26053E-08	1.60622E-04	2.75787E-02	7.95539E-08	1.75994E-04
152	1900-2000	2.84429E-02	4.55815E-08	1.00838E-04	3.11508E-02	4.99212E-08	1.10439E-04
152	2000-2100	2.65915E-02	2.84097E-08	6.28499E-05	2.92612E-02	3.12619E-08	6.91597E-05
152	2100-2200	2.72012E-02	2.61550E-08	5.78618E-05	2.99602E-02	2.88079E-08	6.37308E-05
152	2200-2300	2.70498E-02	2.31195E-08	5.11465E-05	2.98500E-02	2.55128E-08	5.64412E-05
152	2300-0000	2.20154E-02	1.41125E-08	3.12205E-05	2.39484E-02	1.53515E-08	3.39617E-05
154	0000-0100	4.88543E-03	1.56584E-09	5.23073E-06	5.30959E-03	1.70179E-09	5.68487E-06
154	0100-0200	8.15355E-03	1.74221E-09	5.81990E-06	8.83844E-03	1.88856E-09	6.30876E-06
154	0200-0300	8.00755E-03	1.71102E-09	5.71569E-06	8.68244E-03	1.85522E-09	6.19741E-06
154	0300-0400	1.75523E-02	1.87525E-09	6.26431E-06	1.91037E-02	2.04099E-09	6.81798E-06
154	0400-0500	3.73791E-02	7.98698E-09	2.66807E-05	4.06149E-02	8.67840E-09	2.89904E-05
154	0500-0600	3.25241E-02	2.43236E-08	8.12535E-05	3.53520E-02	2.64385E-08	8.83183E-05
154	0600-0700	3.46560E-02	1.07374E-07	3.58686E-04	3.77064E-02	1.16825E-07	3.90258E-04
154	0700-0800	5.45202E-02	2.21343E-07	7.39400E-04	5.93170E-02	2.40817E-07	8.04454E-04
154	0800-0900	4.50680E-02	1.78153E-07	5.95125E-04	4.90481E-02	1.93887E-07	6.47684E-04
154	0900-1000	4.19043E-02	1.43263E-07	4.78572E-04	4.55864E-02	1.55851E-07	5.20623E-04
154	1000-1100	3.72470E-02	1.23361E-07	4.12089E-04	4.10746E-02	1.36038E-07	4.54436E-04
154	1100-1200	3.29324E-02	9.14788E-08	3.05587E-04	3.61728E-02	1.00480E-07	3.35656E-04
154	1200-1300	4.10134E-02	1.09544E-07	3.65935E-04	4.48114E-02	1.19689E-07	3.99822E-04
154	1300-1400	3.90970E-02	8.77175E-08	2.93022E-04	4.28680E-02	9.61782E-08	3.21285E-04
154	1400-1500	3.17920E-02	8.49145E-08	2.83659E-04	3.47453E-02	9.28026E-08	3.10009E-04
154	1500-1600	3.72637E-02	1.07491E-07	3.59077E-04	4.06245E-02	1.17186E-07	3.91463E-04
154	1600-1700	3.42726E-02	1.53787E-07	5.13730E-04	3.75472E-02	1.68481E-07	5.62815E-04
154	1700-1800	2.91805E-02	1.12233E-07	3.74916E-04	3.19130E-02	1.22742E-07	4.10024E-04
154	1800-1900	2.10672E-02	4.72662E-08	1.57894E-04	2.28979E-02	5.13735E-08	1.71614E-04
154	1900-2000	2.50960E-02	2.68120E-08	8.95660E-05	2.75134E-02	2.93946E-08	9.81934E-05
154	2000-2100	4.12193E-02	3.08264E-08	1.02976E-04	4.47628E-02	3.34765E-08	1.11829E-04
154	2100-2200	1.67987E-02	1.07684E-08	3.59720E-05	1.82547E-02	1.17017E-08	3.90898E-05
154	2200-2300	4.35607E-02	3.25774E-08	1.08826E-04	4.73453E-02	3.54078E-08	1.18281E-04
154	2300-0000	3.16085E-02	1.35079E-08	4.51234E-05	3.43375E-02	1.46742E-08	4.90193E-05
153	0000-0100	3.21431E-02	2.06046E-08	6.27101E-05	3.51670E-02	2.25429E-08	6.86095E-05
153	0100-0200	4.41403E-02	1.41475E-08	4.30581E-05	4.84149E-02	1.55176E-08	4.72279E-05
153	0200-0300	2.58372E-02	5.52076E-09	1.68025E-05	2.81128E-02	6.00702E-09	1.82824E-05
153	0300-0400	1.81302E-02	3.87397E-09	1.17904E-05	1.97516E-02	4.22043E-09	1.28449E-05
153	0400-0500	1.11563E-02	4.76763E-09	1.45103E-05	1.21576E-02	5.19558E-09	1.58128E-05
153	0500-0600	3.63280E-02	4.26932E-08	1.29937E-04	3.95920E-02	4.65291E-08	1.41612E-04
153	0600-0700	3.96516E-02	1.14380E-07	3.48115E-04	4.32523E-02	1.24766E-07	3.79727E-04
153	0700-0800	2.37941E-02	1.24563E-07	3.79109E-04	2.61123E-02	1.36699E-07	4.16045E-04
153	0800-0900	2.64143E-02	1.35458E-07	4.12267E-04	2.88140E-02	1.47764E-07	4.49720E-04
153	0900-1000	2.30825E-02	1.10973E-07	3.37748E-04	2.52221E-02	1.21260E-07	3.69056E-04
153	1000-1100	3.19106E-02	1.12505E-07	3.42410E-04	3.51413E-02	1.23896E-07	3.77077E-04
153	1100-1200	2.87807E-02	6.76470E-08	2.05884E-04	3.15801E-02	7.42268E-08	2.25909E-04
153	1200-1300	2.21396E-02	8.04218E-08	2.44764E-04	2.42388E-02	8.80468E-08	2.67971E-04
153	1300-1400	4.08034E-02	1.13343E-07	3.44959E-04	4.45185E-02	1.23663E-07	3.76368E-04
153	1400-1500	3.54539E-02	1.24998E-07	3.80431E-04	3.85935E-02	1.36067E-07	4.14120E-04
153	1500-1600	5.98418E-02	2.10981E-07	6.42121E-04	6.51833E-02	2.29813E-07	6.99436E-04
153	1600-1700	7.04359E-02	2.40807E-07	7.32896E-04	7.67210E-02	2.62294E-07	7.98293E-04
153	1700-1800	4.50530E-02	8.66404E-08	2.63690E-04	4.91343E-02	9.44891E-08	2.87578E-04
153	1800-1900	3.22841E-02	5.17374E-08	1.57463E-04	3.52777E-02	5.65348E-08	1.72064E-04
153	1900-2000	1.96297E-02	1.88747E-08	5.74453E-05	2.16382E-02	2.08060E-08	6.33231E-05
153	2000-2100	4.01887E-02	2.57620E-08	7.84067E-05	4.37028E-02	2.80146E-08	8.52626E-05
153	2100-2200	1.12285E-02	1.19963E-08	3.65108E-05	1.22341E-02	1.30706E-08	3.97806E-05
153	2200-2300	4.76115E-02	3.05202E-08	9.28883E-05	5.17487E-02	3.31723E-08	1.00960E-04
153	2300-0000	2.00225E-02	6.41746E-09	1.95316E-05	2.17089E-02	6.95797E-09	2.11766E-05
157	0000-0100	5.24063E-03	6.06555E-10	1.19553E-06	5.67936E-03	6.57333E-10	1.29561E-06
157	0100-0200	6.40079E-03	7.40832E-10	1.46019E-06	6.94920E-03	8.04305E-10	1.58530E-06
157	0200-0300	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
157	0300-0400	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
157	0400-0500	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
157	0500-0600	5.24063E-03	6.06555E-10	1.19553E-06	5.67936E-03	6.57333E-10	1.29561E-06
157	0600-0700	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
157	0700-0800	5.69685E-03	6.59358E-10	1.29961E-06	6.19422E-03	7.16923E-10	1.41307E-06
157	0800-0900	1.11159E-02	3.85968E-09	7.60749E-06	1.20711E-02	4.19137E-09	8.26125E-06

Road ID	Hour	PM2.5 Emission			PM10 Emission		
		AnnualHourMin			AnnualHourMin		
		g/km/veh	g/s/m2	tonne/year	g/km/veh	g/s/m2	tonne/year
157	0900-1000	3.42540E-03	1.58583E-09	3.12570E-06	3.70460E-03	1.71509E-09	3.38047E-06
157	1000-1100	3.93048E-03	4.54916E-10	8.96647E-07	4.25952E-03	4.93000E-10	9.71710E-07
157	1100-1200	5.24063E-03	1.21311E-09	2.39106E-06	5.67936E-03	1.31467E-09	2.59123E-06
157	1200-1300	4.11048E-03	9.51499E-10	1.87542E-06	4.44552E-03	1.02906E-09	2.02828E-06
157	1300-1400	3.84048E-03	4.44499E-10	8.76115E-07	4.16952E-03	4.82583E-10	9.51179E-07
157	1400-1500	3.93048E-03	4.54916E-10	8.96647E-07	4.25952E-03	4.93000E-10	9.71710E-07
157	1500-1600	5.24063E-03	1.48166E-10	2.92038E-07	1.38984E-03	1.60861E-10	3.17060E-07
157	1600-1700	1.55272E-02	5.39141E-09	1.06265E-05	1.68201E-02	5.84030E-09	1.15113E-05
157	1700-1800	1.03575E-02	2.39756E-09	4.72564E-06	1.12135E-02	2.59572E-09	5.11621E-06
157	1800-1900	5.24063E-03	6.06555E-10	1.19553E-06	5.67936E-03	6.57333E-10	1.29561E-06
157	1900-2000	4.02048E-03	4.65333E-10	9.17178E-07	4.35552E-03	5.04111E-10	9.93611E-07
157	2000-2100	5.24063E-03	6.06555E-10	1.19553E-06	5.67936E-03	6.57333E-10	1.29561E-06
157	2100-2200	5.12063E-03	5.92666E-10	1.16815E-06	5.55936E-03	6.43444E-10	1.26824E-06
157	2200-2300	5.24063E-03	6.06555E-10	1.19553E-06	5.67936E-03	6.57333E-10	1.29561E-06
157	2300-0000	5.24063E-03	6.06555E-10	1.19553E-06	5.67936E-03	6.57333E-10	1.29561E-06
161	0000-0100	3.84048E-03	8.20614E-10	4.75903E-06	4.16952E-03	8.90923E-10	5.16677E-06
161	0100-0200	5.36063E-03	1.14543E-09	6.64277E-06	5.80736E-03	1.24089E-09	7.19634E-06
161	0200-0300	3.84048E-03	4.10307E-10	2.37951E-06	4.16952E-03	4.45461E-10	2.58338E-06
161	0300-0400	3.75048E-03	4.00692E-10	2.32375E-06	4.07952E-03	4.35846E-10	2.52762E-06
161	0400-0500	3.65044E-02	1.17001E-08	6.78531E-05	3.96582E-02	1.27110E-08	7.37153E-05
161	0500-0600	3.22836E-02	2.06946E-08	1.20015E-04	3.50810E-02	2.24878E-08	1.30415E-04
161	0600-0700	5.27260E-02	1.07029E-07	6.20699E-04	5.74411E-02	1.16600E-07	6.76206E-04
161	0700-0800	3.68539E-02	1.53558E-07	8.90535			

Road ID	Hour	PM2.5 Emission			PM10 Emission		
		AnnualHourMin			AnnualHourMin		
		g/km/veh	g/s/m2	tonne/year	g/km/veh	g/s/m2	tonne/year
166	1100-1200	4.01932E-02	4.29415E-08	1.05630E-04	4.40622E-02	4.70750E-08	1.15798E-04
166	1200-1300	3.69220E-02	5.52252E-08	1.35847E-04	4.01076E-02	5.99900E-08	1.47567E-04
166	1300-1400	3.86728E-02	4.13171E-08	1.01634E-04	4.21321E-02	4.50130E-08	1.10726E-04
166	1400-1500	4.81992E-02	5.66444E-08	1.39338E-04	5.23614E-02	6.15358E-08	1.51370E-04
166	1500-1600	2.90744E-02	5.59124E-08	1.37537E-04	3.18807E-02	6.13091E-08	1.50812E-04
166	1600-1700	5.06533E-02	1.02822E-07	2.52928E-04	5.50435E-02	1.11734E-07	2.74850E-04
166	1700-1800	4.10569E-02	7.89556E-08	1.94220E-04	4.47889E-02	8.61326E-08	2.11875E-04
166	1800-1900	3.97259E-02	2.54653E-08	6.26412E-05	4.35671E-02	2.79276E-08	6.86983E-05
166	1900-2000	4.77675E-02	2.04134E-08	5.02144E-05	5.19263E-02	2.21907E-08	5.45863E-05
166	2000-2100	3.96085E-02	2.11584E-08	5.20468E-05	4.30473E-02	2.29953E-08	5.65655E-05
166	2100-2200	1.32798E-02	4.25636E-09	1.04701E-05	1.44359E-02	4.62688E-09	1.13815E-05
166	2200-2300	1.01137E-02	2.16106E-09	5.31591E-06	1.09798E-02	2.34611E-09	5.77112E-06
166	2300-0000	5.00063E-03	5.34256E-10	1.31420E-06	5.43936E-03	5.81128E-10	1.42950E-06
162	0000-0100	5.48063E-03	1.17108E-09	6.79149E-06	5.92736E-03	1.26653E-09	7.34507E-06
162	0100-0200	5.00063E-03	5.34256E-10	3.09834E-06	5.43936E-03	5.81128E-10	3.37017E-06
162	0200-0300	5.12063E-03	5.47076E-10	3.17269E-06	5.55936E-03	5.93949E-10	3.44452E-06
162	0300-0400	4.93663E-03	5.27418E-10	3.05869E-06	5.31936E-03	5.68307E-10	3.29582E-06
162	0400-0500	5.36063E-03	1.14543E-09	6.64279E-06	5.80736E-03	1.24089E-09	7.19636E-06
162	0500-0600	2.66965E-02	1.42609E-08	8.27044E-05	2.89931E-02	1.54878E-08	8.98193E-05
162	0600-0700	6.62986E-02	7.08318E-08	4.10779E-04	7.20515E-02	7.69781E-08	4.46424E-04
162	0700-0800	4.83604E-02	1.24001E-07	7.19127E-04	5.25509E-02	1.34746E-07	7.81441E-04
162	0800-0900	5.30442E-02	1.64346E-07	9.53105E-04	5.76543E-02	1.78630E-07	1.03594E-03
162	0900-1000	4.59394E-02	1.32517E-07	7.68517E-04	4.99244E-02	1.44013E-07	8.35182E-04
162	1000-1100	5.82099E-02	9.95041E-08	5.77061E-04	6.34889E-02	1.08528E-07	6.29393E-04
162	1100-1200	4.19073E-02	7.16363E-08	4.15445E-04	4.58633E-02	7.83988E-08	4.54663E-04
162	1200-1300	3.65279E-02	8.97588E-08	5.20544E-04	3.96926E-02	9.75351E-08	5.65642E-04
162	1300-1400	4.05787E-02	7.37006E-08	4.27417E-04	4.41733E-02	8.02292E-08	4.65279E-04
162	1400-1500	5.54399E-02	1.06615E-07	6.18300E-04	6.02518E-02	1.15869E-07	6.71966E-04
162	1500-1600	2.98860E-02	9.57883E-08	5.55511E-04	3.27751E-02	1.05048E-07	6.09214E-04
162	1600-1700	5.52474E-02	2.06587E-07	1.19808E-03	6.00358E-02	2.24493E-07	1.30192E-03
162	1700-1800	5.40949E-02	1.50264E-07	8.71434E-04	5.89880E-02	1.63856E-07	9.50258E-04
162	1800-1900	5.23032E-02	5.02916E-08	2.91659E-04	5.70952E-02	5.48992E-08	3.18381E-04
162	1900-2000	5.35461E-02	4.00451E-08	2.32236E-04	5.82086E-02	4.35321E-08	2.52458E-04
162	2000-2100	5.76896E-02	4.31439E-08	2.50207E-04	6.26794E-02	4.68757E-08	2.71849E-04
162	2100-2200	1.16517E-02	6.22418E-09	3.60963E-05	1.26582E-02	6.76183E-09	3.92143E-05
162	2200-2300	8.48937E-03	2.72095E-09	1.57798E-05	9.21298E-03	2.95288E-09	1.71248E-05
162	2300-0000	3.84048E-03	4.10307E-10	2.37952E-06	4.16952E-03	4.45461E-10	2.58339E-06
158	0000-0100	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
158	0100-0200	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
158	0200-0300	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
158	0300-0400	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
158	0400-0500	6.70079E-03	7.75555E-10	1.52862E-06	7.25920E-03	8.40185E-10	1.65600E-06
158	0500-0600	6.40079E-03	7.40832E-10	1.46018E-06	6.94920E-03	8.04305E-10	1.58529E-06
158	0600-0700	6.55079E-03	7.58194E-10	1.49440E-06	7.09920E-03	8.21666E-10	1.61950E-06
158	0700-0800	5.97685E-03	6.91766E-10	1.36347E-06	6.49822E-03	7.52108E-10	1.48241E-06
158	0800-0900	6.30419E-03	2.91861E-09	5.75258E-06	6.85279E-03	3.17259E-09	6.25317E-06
158	0900-1000	6.57556E-03	3.04424E-09	6.00020E-06	7.14288E-03	3.30689E-09	6.51787E-06
158	1000-1100	1.12096E-02	2.59481E-09	5.11436E-06	1.21969E-02	2.82335E-09	5.56482E-06
158	1100-1200	6.49282E-03	1.50297E-09	2.96235E-06	7.02371E-03	1.62586E-09	3.20457E-06
158	1200-1300	9.05320E-03	3.14347E-09	6.19578E-06	9.83509E-03	3.41496E-09	6.73089E-06
158	1300-1400	1.03287E-02	2.39091E-09	4.71249E-06	1.12168E-02	2.59648E-09	5.11766E-06
158	1400-1500	1.12096E-02	2.59481E-09	5.11436E-06	1.21969E-02	2.82335E-09	5.56482E-06
158	1500-1600	1.12202E-02	2.59726E-09	5.11920E-06	1.21918E-02	2.82219E-09	5.56253E-06
158	1600-1700	2.23472E-02	5.17297E-09	1.01959E-05	2.42788E-02	5.62008E-09	1.10772E-05
158	1700-1800	9.40548E-03	2.17719E-09	4.29125E-06	1.02125E-02	2.36401E-09	4.65946E-06
158	1800-1900	3.93048E-03	4.54916E-10	8.96640E-07	4.25952E-03	4.93000E-10	9.71703E-07
158	1900-2000	5.24063E-03	6.06555E-10	1.19552E-06	5.67936E-03	6.57333E-10	1.29560E-06
158	2000-2100	5.24063E-03	6.06555E-10	1.19552E-06	5.67936E-03	6.57333E-10	1.29560E-06
158	2100-2200	5.24063E-03	6.06555E-10	1.19552E-06	5.67936E-03	6.57333E-10	1.29560E-06
158	2200-2300	6.55079E-03	7.58194E-10	1.49440E-06	7.09920E-03	8.21666E-10	1.61950E-06
158	2300-0000	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
201	0000-0100	2.98704E-03	1.13145E-09	2.17993E-06	3.24296E-03	1.22839E-09	2.36670E-06
201	0100-0200	3.27540E-03	8.27120E-10	1.59359E-06	3.54960E-03	8.96363E-10	1.72699E-06
201	0200-0300	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
201	0300-0400	6.55079E-03	8.27120E-10	1.59359E-06	7.09920E-03	8.96363E-10	1.72699E-06
201	0400-0500	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
201	0500-0600	1.10111E-02	4.17087E-09	8.03588E-06	1.19813E-02	4.53839E-09	8.74396E-06
201	0600-0700	9.26284E-03	1.52042E-08	2.92933E-05	1.00565E-02	1.65069E-08	3.18033E-05
201	0700-0800	1.80467E-02	3.19008E-08	6.14622E-05	1.96997E-02	3.48226E-08	6.70916E-05
201	0800-0900	1.54811E-02	2.54108E-08	4.89582E-05	1.69193E-02	2.77716E-08	5.35066E-05
201	0900-1000	1.14431E-02	1.58931E-08	3.06208E-05	1.26981E-02	1.76362E-08	3.39791E-05
201	1000-1100	9.14433E-03	1.27005E-08	2.44695E-05	9.96986E-03	1.38470E-08	2.66786E-05
201	1100-1200	1.20404E-02	1.82430E-08	3.51481E-05	1.30952E-02	1.98413E-08	3.82275E-05
201	1200-1300	1.02098E-02	1.28912E-08	2.48371E-05	1.11138E-02	1.40326E-08	2.70362E-05

Road ID	Hour	PM2.5 Emission			PM10 Emission		
		AnnualHourMin			AnnualHourMin		
		g/km/veh	g/s/m2	tonne/year	g/km/veh	g/s/m2	tonne/year
201	1300-1400	1.31056E-02	1.82022E-08	3.50695E-05	1.42728E-02	1.98234E-08	3.81931E-05
201	1400-1500	8.86698E-02	1.00761E-08	1.94133E-05	9.61828E-03	1.09299E-08	2.10582E-05
201	1500-1600	2.41052E-02	3.65231E-08	7.03678E-05	2.61910E-02	3.96833E-08	7.64565E-05
201	1600-1700	1.80272E-02	3.18662E-08	6.13956E-05	1.97941E-02	3.49896E-08	6.74133E-05
201	1700-1800	9.85205E-03	1.49274E-08	2.87600E-05	1.06724E-02	1.61704E-08	3.11549E-05
201	1800-1900	8.01584E-03	1.31573E-08	2.53498E-05	8.70152E-03	1.42828E-08	2.75182E-05
201	1900-2000	6.87858E-03	1.12906E-08	2.17532E-05	7.59556E-03	1.24675E-08	2.40206E-05
201	2000-2100	5.22786E-03	7.92100E-09	1.52611E-05	5.78395E-03	8.76356E-09	1.68845E-05
201	2100-2200	5.68327E-03	1.00462E-08	1.93556E-05	6.17451E-03	1.09145E-08	2.10287E-05
201	2200-2300	3.82681E-03	5.31501E-09	1.02403E-05	4.16681E-03	5.78723E-09	1.11501E-05
201	2300-0000	1.54256E-03	1.75291E-09	3.37728E-06	1.67186E-03	1.89984E-09	3.66036E-06

Appendix 2.6

Vehicular Emissions at Bus Terminus

Annex – 1

Idling Emission Factor

PC Technology Group Fractions															
FirstRegYear	FBSD							FBDD							
	pre-Euro with DOC	Euro I	Euro II	Euro III	Euro IV	Euro V	Euro VI	pre-Euro with DOC	Euro I	Euro II	Euro III	Euro IV	Euro V	Euro VI	
1971	100.0%							100.0%							
1972	100.0%							100.0%							
1973	100.0%							100.0%							
1974	100.0%							100.0%							
1975	100.0%							100.0%							
1976	100.0%							100.0%							
1977	100.0%							100.0%							
1978	100.0%							100.0%							
1979	100.0%							100.0%							
1980	100.0%							100.0%							
1981	100.0%							100.0%							
1982	100.0%							100.0%							
1983	100.0%							100.0%							
1984	100.0%							100.0%							
1985	100.0%							100.0%							
1986	100.0%							100.0%							
1987	100.0%							100.0%							
1988	100.0%							100.0%							
1989	100.0%							100.0%							
1990	100.0%							100.0%							
1991	100.0%							100.0%							
1992	100.0%							100.0%							
1993	100.0%							82.5%	17.5%						
1994	100.0%	100.0%						9.7%	90.3%						
1995	100.0%	100.0%						100.0%	100.0%						
1996		50.0%	50.0%					100.0%	100.0%						
1997			100.0%					28.2%	71.8%						
1998			100.0%						100.0%						
1999			100.0%						100.0%						
2000			100.0%						100.0%						
2001			100.0%					42.5%	57.5%						
2002			100.0%					0.3%	99.7%						
2003				100.0%				16.3%	83.7%						
2004				100.0%				49.7%	50.3%						
2005				100.0%				61.2%	38.8%						
2006				100.0%					98.2%	0.9%			0.9%		
2007				37.5%	62.5%				95.3%	4.7%					
2008				100.0%	100.0%				48.9%	51.1%					
2009					100.0%					100.0%					
2010					22.2%	77.8%				31.6%	68.4%				
2011						100.0%				3.9%	96.1%				
2012						100.0%					100.0%				
2013						100.0%					100.0%				
2014						100.0%					99.1%	0.9%			
2015						100.0%					100.0%				
2016						100.0%					100.0%				
2017							100.0%				99.9%	0.1%			
2018						75.0%	25.0%				84.9%	15.1%			
2019							100.0%					100.0%			
2020							100.0%					100.0%			
2021							100.0%					100.0%			
2022							100.0%					100.0%			
2023							100.0%					100.0%			
2024							100.0%					100.0%			
2025							100.0%					100.0%			
2026							100.0%					100.0%			
2027							100.0%					100.0%			
2028							100.0%					100.0%			
2029							100.0%					100.0%			
2030							100.0%					100.0%			
2031							100.0%					100.0%			
2032							100.0%					100.0%			
2033							100.0%					100.0%			
2034							100.0%					100.0%			
2035							100.0%					100.0%			
2036							100.0%					100.0%			
2037							100.0%					100.0%			
2038							100.0%					100.0%			
2039							100.0%					100.0%			
2040							100.0%					100.0%			
2041							100.0%					100.0%			
2042							100.0%					100.0%			
2043							100.0%					100.0%			
2044							100.0%					100.0%			
2045							100.0%					100.0%			
2046							100.0%					100.0%			
2047							100.0%					100.0%			
2048							100.0%					100.0%			
2049							100.0%					100.0%			
2050							100.0%					100.0%			
2051							100.0%					100.0%			
2052							100.0%					100.0%			
2053							100.0%					100.0%			
2054							100.0%					100.0%			
2055							100.0%					100.0%			
2056							100.0%					100.0%			
2057							100.0%					100.0%			
2058							100.0%					100.0%			
2059							100.0%					100.0%			
2060							100.0%					100.0%			

Based on Emfac 4.3 Exhaust Technology Fractions

Calculations of Composite Idling Emission Factors--Diesel Vehicles

Estimated Engine Type Distribution

Assessment Year : 2024

FirstRegYear	Age	Estimated engine type distribution									Estimated engine type distribution								
		FBSD									FBDD								
		Population profile	pre-Euro with DOC	Euro I	Euro II	Euro III	Euro IV	Euro V	Euro VI	Population profile	pre-Euro with DOC	Euro I	Euro II	Euro III	Euro IV	Euro V	Euro VI		
2024	1	3.27%	-	-	-	-	-	-	3.27%	1.88%	-	-	-	-	-	-	1.88%		
2023	2	1.82%	-	-	-	-	-	-	1.82%	0.84%	-	-	-	-	-	-	0.84%		
2022	3	0.00%	-	-	-	-	-	-	0.00%	3.01%	-	-	-	-	-	-	3.01%		
2021	4	0.00%	-	-	-	-	-	-	0.00%	3.25%	-	-	-	-	-	-	3.25%		
2020	5	0.00%	-	-	-	-	-	-	0.00%	5.51%	-	-	-	-	-	-	5.51%		
2019	6	0.00%	-	-	-	-	-	-	0.00%	5.05%	-	-	-	-	-	-	5.05%		
2018	7	0.00%	-	-	-	-	-	0.00%	0.00%	11.09%	-	-	-	-	-	9.41%	1.68%		
2017	8	1.82%	-	-	-	-	-	-	1.82%	11.60%	-	-	-	-	-	11.59%	0.02%		
2016	9	0.00%	-	-	-	-	-	0.00%	-	14.29%	-	-	-	-	-	14.29%	-		
2015	10	10.18%	-	-	-	-	-	10.18%	-	14.09%	-	-	-	-	-	14.09%	-		
2014	11	0.00%	-	-	-	-	-	0.00%	-	7.56%	-	-	-	-	-	7.50%	0.07%		
2013	12	9.09%	-	-	-	-	-	9.09%	-	7.53%	-	-	-	-	-	7.53%	-		
2012	13	19.64%	-	-	-	-	-	19.64%	-	3.78%	-	-	-	-	-	3.78%	-		
2011	14	17.82%	-	-	-	-	-	17.82%	-	4.81%	-	-	-	-	0.19%	4.62%	-		
2010	15	13.09%	-	-	-	-	2.91%	10.18%	-	3.03%	-	-	-	-	0.96%	2.07%	-		
2009	16	16.73%	-	-	-	-	16.73%	-	-	0.80%	-	-	-	-	0.80%	-	-		
2008	17	3.64%	-	-	-	-	3.64%	-	-	0.77%	-	-	-	0.38%	0.39%	-	-		
2007	18	2.91%	-	-	-	1.09%	1.82%	-	-	1.10%	-	-	-	1.04%	0.05%	-	-		
2006	19	0.00%	-	-	-	0.00%	-	-	-	0.00%	-	-	-	0.00%	0.00%	0.00%	-		
2005	20	0.00%	-	-	-	0.00%	-	-	-	0.00%	-	-	0.00%	0.00%	-	-	-		
2004	21	0.00%	-	-	-	0.00%	-	-	-	0.00%	-	-	0.00%	0.00%	-	-	-		
2003	22	0.00%	-	-	-	0.00%	-	-	-	0.00%	-	-	0.00%	0.00%	-	-	-		
2002	23	0.00%	-	-	0.00%	-	-	-	-	0.00%	-	-	0.00%	0.00%	-	-	-		
2001	24	0.00%	-	-	0.00%	-	-	-	-	0.00%	-	-	0.00%	0.00%	-	-	-		
2000	25	0.00%	-	-	0.00%	-	-	-	-	0.00%	-	-	0.00%	-	-	-	-		
1999	26	0.00%	-	-	0.00%	-	-	-	-	0.00%	-	-	0.00%	-	-	-	-		
1998	27	0.00%	-	-	0.00%	-	-	-	-	0.00%	-	-	0.00%	-	-	-	-		
1997	28	0.00%	-	-	0.00%	-	-	-	-	0.00%	-	0.00%	0.00%	-	-	-	-		
1996	29	0.00%	-	0.00%	0.00%	-	-	-	-	0.00%	-	0.00%	-	-	-	-	-		
1995	30	0.00%	-	0.00%	-	-	-	-	-	0.00%	-	0.00%	-	-	-	-	-		
1994	31	0.00%	-	0.00%	-	-	-	-	-	0.00%	0.00%	0.00%	-	-	-	-	-		
1993	32	0.00%	0.00%	-	-	-	-	-	-	0.00%	0.00%	0.00%	-	-	-	-	-		
1992	33	0.00%	0.00%	-	-	-	-	-	-	0.00%	0.00%	-	-	-	-	-	-		
1991	34	0.00%	0.00%	-	-	-	-	-	-	0.00%	0.00%	-	-	-	-	-	-		
1990	35	0.00%	0.00%	-	-	-	-	-	-	0.00%	0.00%	-	-	-	-	-	-		
1989	36	0.00%	0.00%	-	-	-	-	-	-	0.00%	0.00%	-	-	-	-	-	-		
1988	37	0.00%	0.00%	-	-	-	-	-	-	0.00%	0.00%	-	-	-	-	-	-		
1987	38	0.00%	0.00%	-	-	-	-	-	-	0.00%	0.00%	-	-	-	-	-	-		
1986	39	0.00%	0.00%	-	-	-	-	-	-	0.00%	0.00%	-	-	-	-	-	-		
1985	40	0.00%	0.00%	-	-	-	-	-	-	0.00%	0.00%	-	-	-	-	-	-		
1984	41	0.00%	0.00%	-	-	-	-	-	-	0.00%	0.00%	-	-	-	-	-	-		
1983	42	0.00%	0.00%	-	-	-	-	-	-	0.00%	0.00%	-	-	-	-	-	-		
1982	43	0.00%	0.00%	-	-	-	-	-	-	0.00%	0.00%	-	-	-	-	-	-		
1981	44	0.00%	0.00%	-	-	-	-	-	-	0.00%	0.00%	-	-	-	-	-	-		
1980	45	0.00%	0.00%	-	-	-	-	-	-	0.00%	0.00%	-	-	-	-	-	-		
	Total	100.00%	0.00%	0.00%	0.00%	1.09%	25.09%	66.91%	6.91%	100.00%	0.00%	0.00%	0.00%	1.42%	2.40%	74.88%	21.31%		

Warm Idling

Summary of Engine Type Distribution (Year 2024)

Euro Standard	Estimated engine type distribution	
	FBSD	FBDD
pre-Euro	0.00%	0.00%
Euro I	0.00%	0.00%
Euro II	0.00%	0.00%
Euro III	1.09%	1.42%
Euro IV	25.09%	2.40%
Euro V	66.91%	74.88%
Euro VI	6.91%	21.31%
Total	100.00%	100.00%

Basic Idling Emission Factors

Euro Standard	Truck/bus		Light Duty	
	NOx (g/h)	PM (g/h)	NOx (g/h)	PM (g/h)
pre-Euro	40.56	6.62	6.52	1.59
Euro I	32.6	5.53	5.88	0.63
Euro II	40.58	1.43	5.53	0.54
Euro III	42.08	1.29	4.12	0.1
Euro IV	7.51	0.2	3.62	0.16
Euro V	11.71	0.1	3.6	0.02
Euro VI	1.75	0.01	1.28	0.02

Source : Road tunnels: Vehicle emission and air demand for ventilation, PIARC, 2019

Mass Factors

Pollutant	Mass Factor		
	15t	23t	32t
NOx	0.9	1	1.2
PM	0.9	1	1.2

Source : Road tunnels: Vehicle emission and air demand for ventilation, PIARC, 2019

Composite Idling Emission Factors

Euro Standard	Composite Idling Emission Factors (g/h)			
	FBSD		FBDD	
	NOx	PM	NOx	PM
pre-Euro	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Euro I	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Euro II	0.00E+00	0.00E+00	3.42E-08	1.20E-09
Euro III	4.59E-01	1.41E-02	5.98E-01	1.83E-02
Euro IV	1.88E+00	5.02E-02	1.80E-01	4.79E-03
Euro V	7.84E+00	6.69E-02	8.77E+00	7.49E-02
Euro VI	1.21E-01	6.91E-04	3.73E-01	2.13E-03
Composite Emission Factors(g/h)	1.03E+01	1.32E-01	1.19E+01	1.20E-01
Composite Emission Factors (g/s)	2.86E-03	3.66E-05	3.31E-03	3.34E-05

For conservative assessment, mass factor of 1 and 1.2 are used for FBSD (assuming >15 ton) and FBDD (assuming >23 ton) respectively.

Cold Idling for diesel vehicles

Summary of Engine Type Distribution (Year 2024)

Euro Standard	Estimated engine type distribution	
	FBSD	FBDD
pre-Euro	0.00%	0.00%
Euro I	0.00%	0.00%
Euro II	0.00%	0.00%
Euro III	1.09%	1.42%
Euro IV	25.09%	2.40%
Euro V	66.91%	74.88%
Euro VI	6.91%	21.31%
Total	100.00%	100.00%

Basic Idling Emission Factors

Euro Standard	FBSD		FBDD	
	NOx (g/s)	PM (g/s)	NOx (g/s)	PM (g/s)
pre-Euro	-	-	-	-
Euro I	-	-	-	-
Euro II	-	-	-	-
Euro III	0.0737	-	0.0737	-
Euro IV	0.0573	-	0.1535	-
Euro V	0.0474	-	0.1535	-
Euro VI	0.0077	-	0.0225	-

Source: EPD Technical Note on "Calculation of Start Emissions in Air Quality Impact Assessment" (https://www.epd.gov.hk/epd/sites/default/files/epd/Technical_Note_on_Calculation_of_Start_Emissions_in_Air_Quality_Impact_Assessment.pdf)
For Euro III of FBSD, no emission factor has been provided, emission factor is assumed the same as FBDD for conservative assessments.

Composite Idling Emission Factors

Euro Standard	Composite Idling Emission Factors (g/s)			
	FBSD		FBDD	
	NOx	PM	NOx	PM
pre-Euro	-	-	-	-
Euro I	-	-	-	-
Euro II	-	-	-	-
Euro III	8.04E-04	-	1.05E-03	-
Euro IV	1.44E-02	-	3.68E-03	-
Euro V	3.17E-02	-	1.15E-01	-
Euro VI	5.32E-04	-	4.79E-03	-
Composite Emission Factors(g/s)	4.74E-02	-	1.24E-01	-

Annex – 2

Emission Inventory

Emission Inventory for TPIE Bus Terminal

Source Location

PTI ID	Description	Source ID	Type	X	Y	Base Elevation	Release Height	x dim.	y dim.	Rotation angle	Initial vertical dimension
				(m)	(m)	(m)	(m)	(m)	(m)	(o)	(m)
TPIE	Bus Terminal	TPIE01	AREA	837372.7	835291.8	6	3.74	39.4	87.4	0	3.48

Routing Information

Routing (m)			
Starting inside PTI	50	7%	Bypass route
Starting on Public Road	650	93%	Running inside PTI
Total Distance		700	

Idling Time

Idling time (min)	
Bypass	1
Terminating	2

Traveling Speed

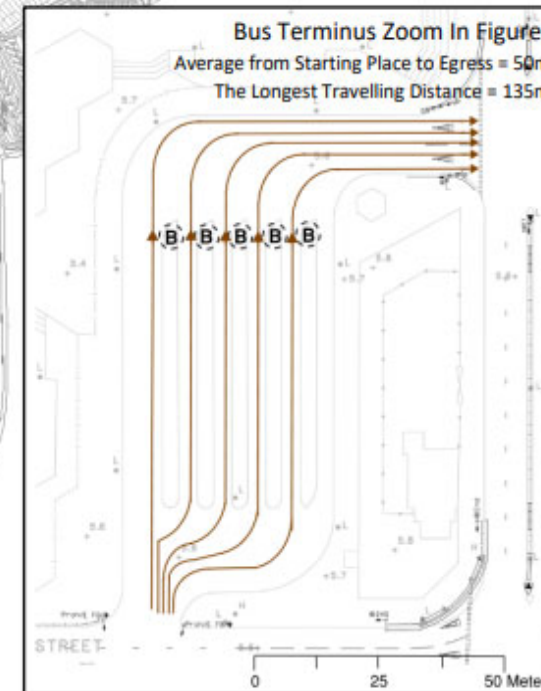
Traveling Speed (km/hr)
10

Composite Emission Rate

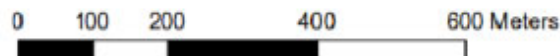
Pollutant	Hourly Emission Rate (g/s or g/s/sq. m)																							
	Hr 00	Hr 01	Hr 02	Hr 03	Hr 04	Hr 05	Hr 06	Hr 07	Hr 08	Hr 09	Hr 10	Hr 11	Hr 12	Hr 13	Hr 14	Hr 15	Hr 16	Hr 17	Hr 18	Hr 19	Hr 20	Hr 21	Hr 22	Hr 23
RSP	8.302E-09	4.151E-09	0.000E+00	0.000E+00	0.000E+00	4.151E-09	2.491E-08	2.075E-08	4.086E-08	1.660E-08	1.660E-08	1.660E-08	1.660E-08	1.660E-08	1.660E-08	1.660E-08	1.660E-08	2.491E-08	2.075E-08	1.660E-08	1.660E-08	1.245E-08	8.302E-09	8.302E-09
FSP	7.690E-09	3.845E-09	0.000E+00	0.000E+00	0.000E+00	3.845E-09	2.307E-08	1.922E-08	3.780E-08	1.538E-08	1.538E-08	1.538E-08	1.538E-08	1.538E-08	1.538E-08	1.538E-08	1.538E-08	2.307E-08	1.922E-08	1.538E-08	1.538E-08	1.153E-08	7.690E-09	7.690E-09

Extracted from approved EIA Study of Upgrading of Tai Po Sewage Treatment Works (AEIAR-244/2022)

Appendix 3.6i Locations of Emission Sources (Tai Po Industrial Estate Bus Terminus)



Note:
As there is no emission on road for cold start of RSP/FSP, only TPIE01 is modelled in this Construction Dust Management Plan



Example of Hourly Emission Breakdown for 1st Jan 2024

Vehicle Type: FBDD

Hour		No. of Trip																			
Start	End	0	5	10	20	30	40	50	60	120	180	240	300	360	420	480	540	600	660	720	
0	1					2															
1	2					1															
2	3																				
3	4																				
4	5																				
5	6														1						
6	7					2									4						
7	8					1										4					
8	9	4				2											4				
9	10				2	2															
10	11				2	2															
11	12				2	2															
12	13				2	2															
13	14				2	2															
14	15				2	2															
15	16				2	2															
16	17				2	2															
17	18			2	2	2															
18	19			1	2	2															
19	20				2	2															
20	21				2	2															
21	22				2	1															
22	23				2																
23	0				2																

Hour	RSP					FSP					
	Idling (Bypass)	Idling (Terminating)	Running within PTI	Start inside PTI	Start on Public Road	Idling (Bypass)	Idling (Terminating)	Running within PTI	Start inside PTI	Start on Public Road	
8760											
1	0.00E+00	2.23E-06	2.64E-05	0.00E+00	0.00E+00	0.00E+00	2.23E-06	2.43E-05	0.00E+00	0.00E+00	
2	0.00E+00	1.11E-06	1.32E-05	0.00E+00	0.00E+00	0.00E+00	1.11E-06	1.21E-05	0.00E+00	0.00E+00	
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
6	0.00E+00	1.11E-06	1.32E-05	0.00E+00	0.00E+00	0.00E+00	1.11E-06	1.21E-05	0.00E+00	0.00E+00	
7	0.00E+00	6.68E-06	7.91E-05	0.00E+00	0.00E+00	0.00E+00	6.68E-06	7.28E-05	0.00E+00	0.00E+00	
8	0.00E+00	5.56E-06	6.59E-05	0.00E+00	0.00E+00	0.00E+00	5.56E-06	6.06E-05	0.00E+00	0.00E+00	
9	2.23E-06	6.68E-06	1.32E-04	0.00E+00	0.00E+00	2.23E-06	6.68E-06	1.21E-04	0.00E+00	0.00E+00	
10	0.00E+00	4.45E-06	5.27E-05	0.00E+00	0.00E+00	0.00E+00	4.45E-06	4.85E-05	0.00E+00	0.00E+00	
11	0.00E+00	4.45E-06	5.27E-05	0.00E+00	0.00E+00	0.00E+00	4.45E-06	4.85E-05	0.00E+00	0.00E+00	
12	0.00E+00	4.45E-06	5.27E-05	0.00E+00	0.00E+00	0.00E+00	4.45E-06	4.85E-05	0.00E+00	0.00E+00	
13	0.00E+00	4.45E-06	5.27E-05	0.00E+00	0.00E+00	0.00E+00	4.45E-06	4.85E-05	0.00E+00	0.00E+00	
14	0.00E+00	4.45E-06	5.27E-05	0.00E+00	0.00E+00	0.00E+00	4.45E-06	4.85E-05	0.00E+00	0.00E+00	
15	0.00E+00	4.45E-06	5.27E-05	0.00E+00	0.00E+00	0.00E+00	4.45E-06	4.85E-05	0.00E+00	0.00E+00	
16	0.00E+00	4.45E-06	5.27E-05	0.00E+00	0.00E+00	0.00E+00	4.45E-06	4.85E-05	0.00E+00	0.00E+00	
17	0.00E+00	4.45E-06	5.27E-05	0.00E+00	0.00E+00	0.00E+00	4.45E-06	4.85E-05	0.00E+00	0.00E+00	
18	0.00E+00	6.68E-06	7.91E-05	0.00E+00	0.00E+00	0.00E+00	6.68E-06	7.28E-05	0.00E+00	0.00E+00	
19	0.00E+00	5.56E-06	6.59E-05	0.00E+00	0.00E+00	0.00E+00	5.56E-06	6.06E-05	0.00E+00	0.00E+00	
20	0.00E+00	4.45E-06	5.27E-05	0.00E+00	0.00E+00	0.00E+00	4.45E-06	4.85E-05	0.00E+00	0.00E+00	
21	0.00E+00	4.45E-06	5.27E-05	0.00E+00	0.00E+00	0.00E+00	4.45E-06	4.85E-05	0.00E+00	0.00E+00	
22	0.00E+00	3.34E-06	3.95E-05	0.00E+00	0.00E+00	0.00E+00	3.34E-06	3.64E-05	0.00E+00	0.00E+00	
23	0.00E+00	2.23E-06	2.64E-05	0.00E+00	0.00E+00	0.00E+00	2.23E-06	2.43E-05	0.00E+00	0.00E+00	
24	0.00E+00	2.23E-06	2.64E-05	0.00E+00	0.00E+00	0.00E+00	2.23E-06	2.43E-05	0.00E+00	0.00E+00	

Hour of Day	Emission Rate (g/s)_Inside PTI		Emission Rate (g/s)_Starting on Public Road	
	RSP	FSP	RSP	FSP
0 to 24				
1	2.86E-05	2.65E-05	0.00E+00	0.00E+00
2	1.43E-05	1.32E-05	0.00E+00	0.00E+00
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	1.43E-05	1.32E-05	0.00E+00	0.00E+00
7	8.58E-05	7.94E-05	0.00E+00	0.00E+00
8	7.15E-05	6.62E-05	0.00E+00	0.00E+00
9	1.41E-04	1.30E-04	0.00E+00	0.00E+00
10	5.72E-05	5.30E-05	0.00E+00	0.00E+00
11	5.72E-05	5.30E-05	0.00E+00	0.00E+00
12	5.72E-05	5.30E-05	0.00E+00	0.00E+00
13	5.72E-05	5.30E-05	0.00E+00	0.00E+00
14	5.72E-05	5.30E-05	0.00E+00	0.00E+00
15	5.72E-05	5.30E-05	0.00E+00	0.00E+00
16	5.72E-05	5.30E-05	0.00E+00	0.00E+00
17	5.72E-05	5.30E-05	0.00E+00	0.00E+00
18	8.58E-05	7.94E-05	0.00E+00	0.00E+00
19	7.15E-05	6.62E-05	0.00E+00	0.00E+00
20	5.72E-05	5.30E-05	0.00E+00	0.00E+00
21	5.72E-05	5.30E-05	0.00E+00	0.00E+00
22	4.29E-05	3.97E-05	0.00E+00	0.00E+00
23	2.86E-05	2.65E-05	0.00E+00	0.00E+00
24	2.86E-05	2.65E-05	0.00E+00	0.00E+00

Appendix 2.7

Emissions from Planned Upgrading Works of TPSTW

A. Calculation of Watering Efficiency

With reference to Cowherd et al., "Control of Open Fugitive Dust Sources, EPA-450/3-88-008, U.S. Environmental Protection Agency, Research Triangle Park, NC, percentage of dust mitigation efficiency is calculated from Equation (3-2) :

$$C = 100 - 0.8 p d t / i$$

where

p = Potential average hourly daytime evaporation rate, mm/hour = 0.23676 ^[1]

d = Average hourly daytime traffic rate per hour = 10 per hour ^[2]

t = time between application in hour

i = Application intensity = 0.228 L/m² ^[3]

Notes:

[1] p = 0.0049 x 48.3189 inch, where 48.3189 inch is equivalent to the total evaporation of 1227.3mm obtained from Hong Kong Observatory (https://www.hko.gov.hk/en/cis/normal/1981_2010/normals.htm)

[2] Estimated by Engineer

[3] The assumptions provided are for the purpose of assessment predictions only. Actual figures would be defined in the detailed design stage.

By applying the Equation (3-2) with the above assumptions,

$$\begin{aligned} \text{Dust suppression efficiency} &= (100 - 0.8 \times (0.23676 \times 10 \times 1) / 0.228) / 100 \\ &= 91.7\% \end{aligned}$$

B. Heavy Construction Activities

According to AP-42, S13.2.3, 1/95 ed.,

$$\text{TSP emission factor} = 2.69 \quad \text{Mg/hectare/month of activity}$$

Assume 26 working days per month and 10 working hours a day during unit conversion,

$$\text{TSP emission factor} = 2.874\text{E-}04 \quad \text{g/m}^2/\text{s} \quad 0$$

According to USEPA AP-42, 5th ed. 11/06 ed. S13.2.4,

$$\text{RSP/TSP Ratio} = 0.473$$

$$\text{FSP/TSP Ratio} = 0.072$$

With dust suppression efficiency of 91.7%, the dust emission factors (8am to 6pm) are,

Therefore, the unmitigated dust emission factors (8am to 6pm) are,

$$\begin{aligned} \text{TSP emission factor} &= 2.874\text{E-}04 \quad \times \quad (1-91.7\%) \\ &= 2.387\text{E-}05 \quad \text{g/m}^2/\text{s} \end{aligned}$$

$$\begin{aligned} \text{RSP emission factor} &= 2.874\text{E-}04 \quad \times \quad 0.473 \quad \times \quad (1-91.7\%) \\ &= 1.128\text{E-}05 \quad \text{g/m}^2/\text{s} \end{aligned}$$

$$\begin{aligned} \text{FSP emission factor} &= 2.874\text{E-}04 \quad \times \quad 0.072 \quad \times \quad (1-91.7\%) \\ &= 1.717\text{E-}06 \quad \text{g/m}^2/\text{s} \end{aligned}$$

C. Wind Erosion

According to AP-42, 5th ed., Table 11.9-4,

$$\text{TSP emission factor} = 8.500\text{E-}01 \quad (\text{Mg/hectare/yr})$$

Assume 365 days per year and 24 hours a day during unit conversion,

$$\text{TSP emission factor} = 2.695\text{E-}06 \quad \text{g/m}^2/\text{s}$$

According to USEPA AP-42, 5th ed. 11/06 ed. S13.2.4,

$$\text{RSP/TSP Ratio} = 0.473$$

$$\text{FSP/TSP Ratio} = 0.072$$

Therefore, the wind erosion dust emission factors (6pm to 8am) are,

$$\text{Wind erosion TSP emission factor} = 2.695\text{E-}06 \quad \text{g/m}^2/\text{s}$$

$$\text{Wind erosion RSP emission factor} = 1.275\text{E-}06 \quad \text{g/m}^2/\text{s}$$

$$\text{Wind erosion FSP emission factor} = 1.941\text{E-}07 \quad \text{g/m}^2/\text{s}$$

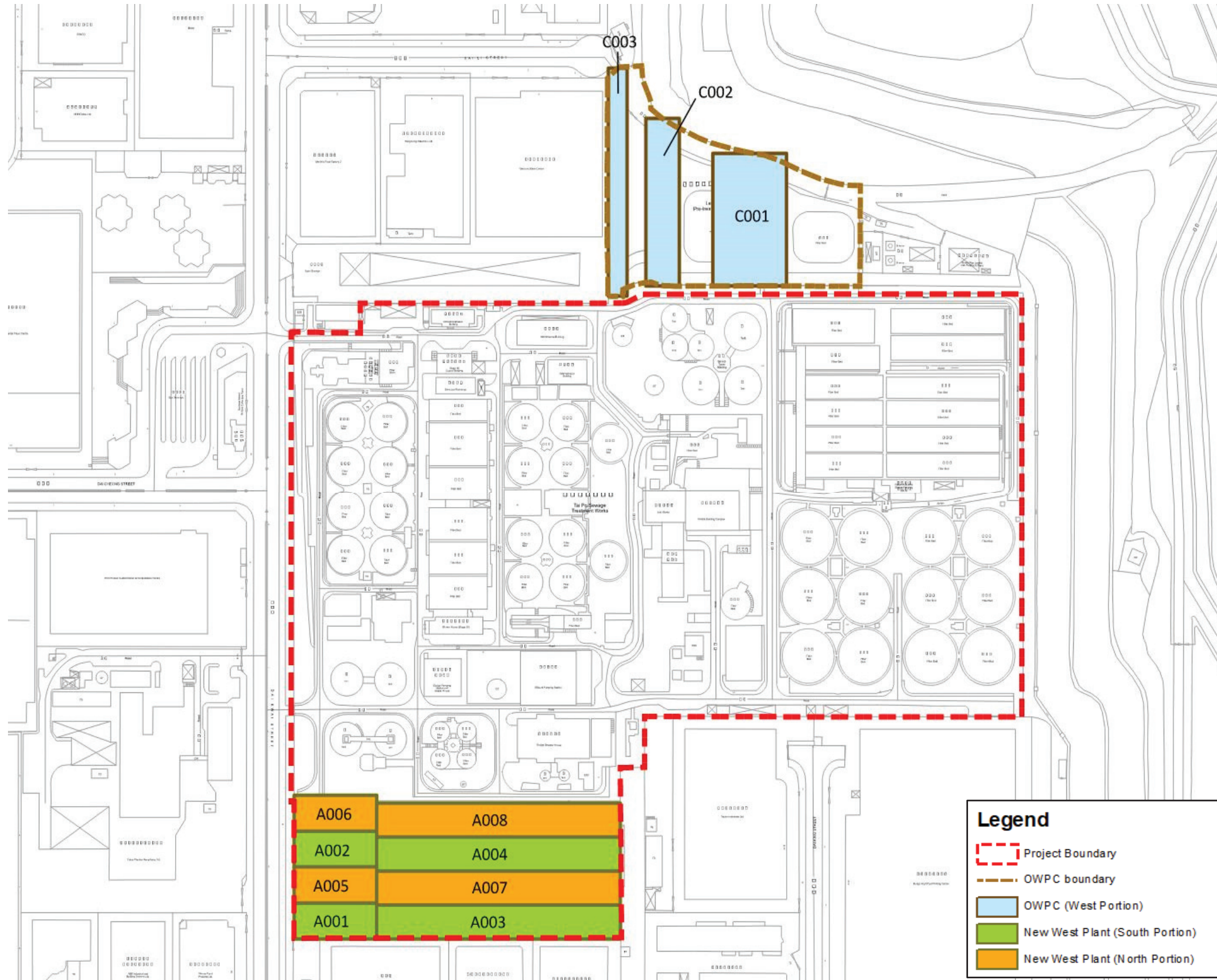
Appendix 3.1 Calculation of Dust Emission Rate

ID	Type	Coordinates		Length		Area (m ²)	Base Height (mPD)	Release Height (mAG)	Angle (degree)	Working Hour (8am to 6pm)			Non-Working Hour (6pm to 8am)		
		X	Y	X (m)	Y (m)					TSP	RSP	FSP	TSP	RSP	FSP
Scenario C1 - List of Fugitive Dust Emission Sources (50% active works area of New West Plant - South Portion and OWPC - West Portion)															
A001	Area	837462.7	835017.2	51.3	21.2	1088	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
A002	Area	837462.7	835059.5	51.3	21.2	1088	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
A003	Area	837514.0	835017.2	151.0	20.0	3020	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
A004	Area	837514.0	835057.2	151.0	20.0	3020	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C001	Area	837722.3	835402.7	45.7	78.1	3573	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C002	Area	837680.8	835402.7	20.8	98.8	2050	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C003	Area	837657.6	835396.7	11.6	134.4	1559	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
Scenario C2 - List of Fugitive Dust Emission Sources (50% active works area of New West Plant - North Portion and OWPC - West Portion)															
A005	Area	837462.7	835038.4	51.3	21.2	1088	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
A006	Area	837462.7	835080.7	51.3	21.2	1088	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
A007	Area	837514.0	835037.2	151.0	20.0	3020	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
A008	Area	837514.0	835077.2	151.0	20.0	3020	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C001	Area	837722.3	835402.7	45.7	78.1	3573	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C002	Area	837680.8	835402.7	20.8	98.8	2050	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C003	Area	837657.6	835396.7	11.6	134.4	1559	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07

Note:

The working hours, dust emission rate and watering frequency of OWPC were assumed to be te same as the proposed works in TPSTW.

Scenario C1, C2 - List of Fugitive Dust Emission Sources (50% active works area of New West Plant and 50% active works area of OWPC)

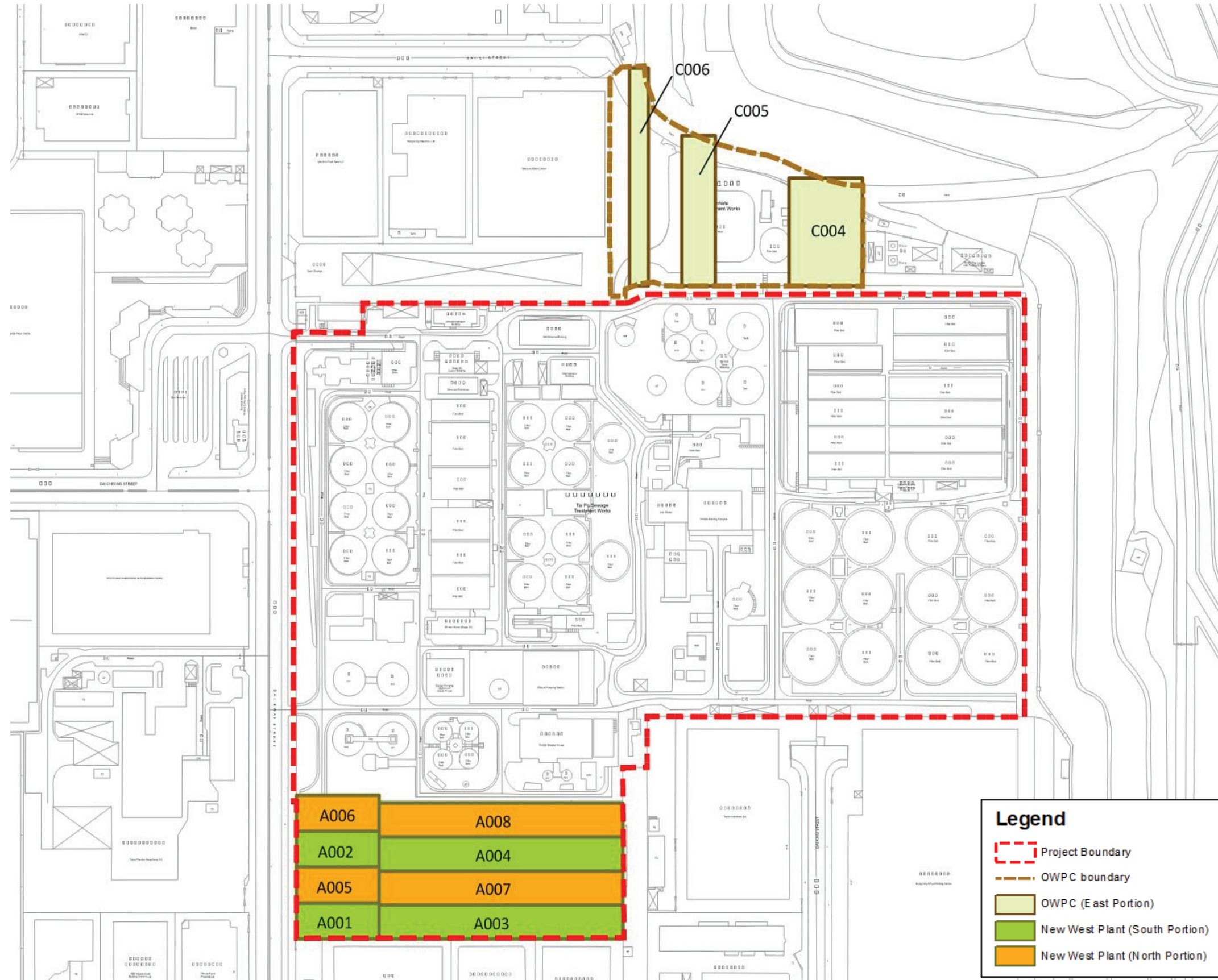


ID	Type	Coordinates		Length		Area (m ²)	Base Height (mPD)	Release Height (mAG)	Angle (degree)	Working Hour (8am to 6pm)			Non-Working Hour (6pm to 8am)		
		X	Y	X (m)	Y (m)					TSP (g/m ² /s)	RSP (g/m ² /s)	FSP (g/m ² /s)	TSP (g/m ² /s)	RSP (g/m ² /s)	FSP (g/m ² /s)
		Scenario C3 - List of Fugitive Dust Emission Sources (50% active works area of New West Plant - South Portion and OWPC - East Portion)													
A001	Area	837462.7	835017.2	51.3	21.2	1088	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
A002	Area	837462.7	835059.5	51.3	21.2	1088	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
A003	Area	837514.0	835017.2	151.0	20.0	3020	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
A004	Area	837514.0	835057.2	151.0	20.0	3020	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C004	Area	837768.0	835402.7	45.5	63.6	2896	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C005	Area	837701.6	835402.7	20.8	88.6	1839	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C006	Area	837669.2	835402.7	11.6	128.4	1489	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
Scenario C4 - List of Fugitive Dust Emission Sources (50% active works area of New West Plant - North Portion and OWPC - East Portion)															
A005	Area	837462.7	835038.4	51.3	21.2	1088	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
A006	Area	837462.7	835080.7	51.3	21.2	1088	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
A007	Area	837514.0	835037.2	151.0	20.0	3020	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
A008	Area	837514.0	835077.2	151.0	20.0	3020	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C004	Area	837768.0	835402.7	45.5	63.6	2896	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C005	Area	837701.6	835402.7	20.8	88.6	1839	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C006	Area	837669.2	835402.7	11.6	128.4	1489	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07

Note:

The working hours, dust emission rate and watering frequency of OWPC were assumed to be the same as the proposed works in TPSTW.

Scenario C3, C4 - List of Fugitive Dust Emission Sources (50% active works area of New West Plant and 50% active works area of OWPC)

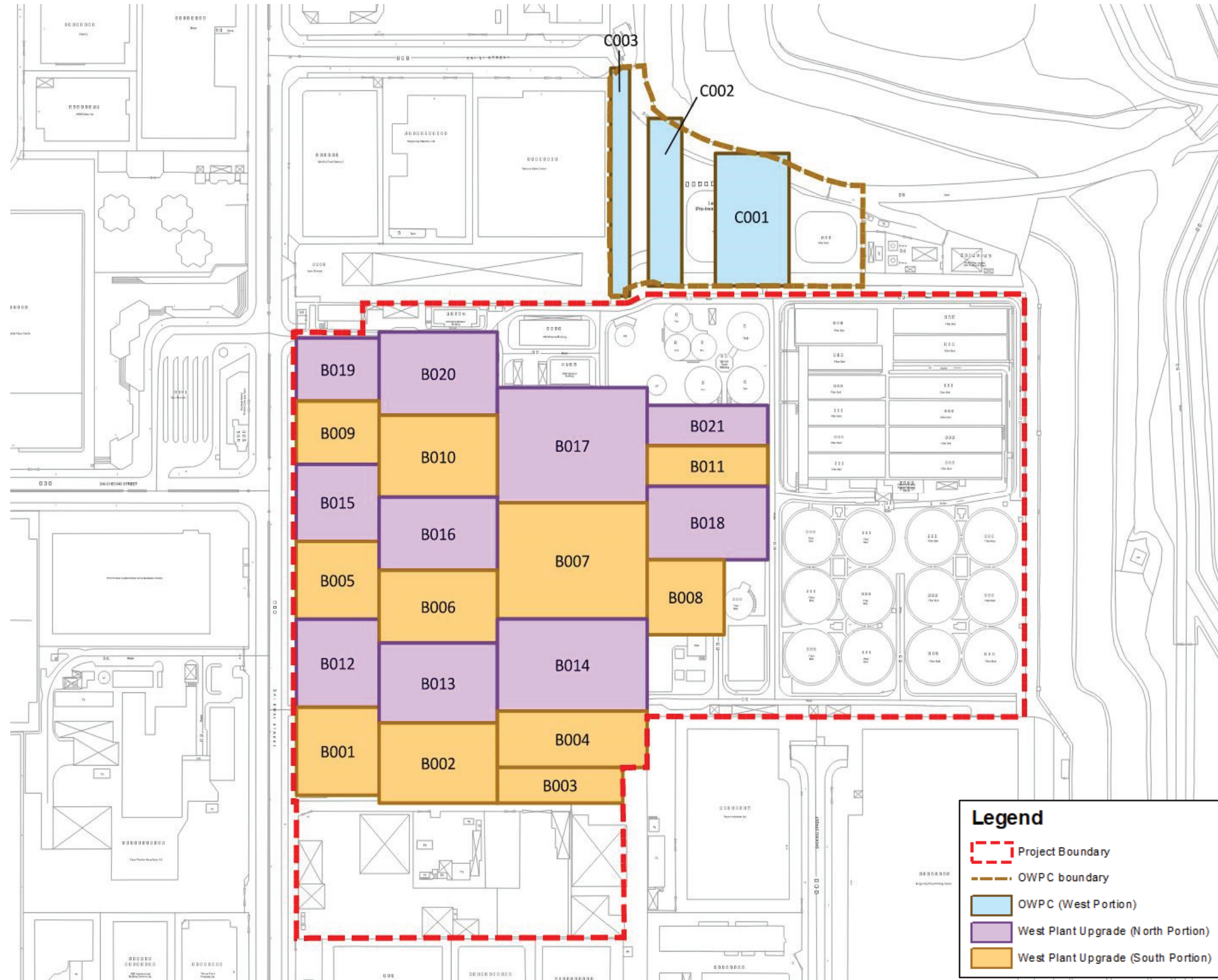


ID	Type	Coordinates		Length		Area (m ²)	Base Height (mPD)	Release Height (mAG)	Angle (degree)	Working Hour (8am to 6pm)			Non-Working Hour (6pm to 8am)		
		X	Y	X (m)	Y (m)					TSP	RSP	FSP	TSP	RSP	FSP
						(g/m ² /s)	(g/m ² /s)	(g/m ² /s)	(g/m ² /s)	(g/m ² /s)	(g/m ² /s)				
Scenario D1 - List of Fugitive Dust Emission Sources (50% active works area of West Plant Upgrade - South Portion and OWPC - West Portion)															
B001	Area	837462.7	835101.9	51.3	51.8	2657	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B002	Area	837514.0	835097.2	73.2	47.2	3455	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B003	Area	837587.3	835097.2	77.7	21.1	1639	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B004	Area	837587.3	835118.3	92.8	33.2	3081	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B005	Area	837462.5	835205.6	51.3	45.9	2355	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B006	Area	837514.0	835191.5	73.2	43.0	3148	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B007	Area	837587.3	835205.8	92.8	68.5	6357	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B008	Area	837680.1	835196.5	47.7	44.1	2104	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B009	Area	837462.6	835297.5	51.4	37.3	1917	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B010	Area	837514.0	835277.5	73.2	49.0	3587	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B011	Area	837680.1	835284.6	74.7	23.9	1785	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C001	Area	837722.3	835402.7	45.7	78.1	3573	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C002	Area	837680.8	835402.7	20.8	98.8	2050	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C003	Area	837657.6	835396.7	11.6	134.4	1559	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
Scenario D2 - List of Fugitive Dust Emission Sources (50% active works area of West Plant Upgrade - North Portion and OWPC - West Portion)															
B012	Area	837462.7	835153.7	51.3	51.8	2657	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B013	Area	837514.0	835144.4	73.2	47.2	3455	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B014	Area	837587.3	835151.5	92.8	54.3	5039	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B015	Area	837462.5	835251.5	51.3	45.9	2355	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B016	Area	837514.0	835234.5	73.2	43.0	3148	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B017	Area	837587.3	835274.3	92.8	68.5	6357	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B018	Area	837680.1	835240.6	74.7	44.1	3294	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B019	Area	837462.6	835334.8	51.4	37.3	1917	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B020	Area	837514.0	835326.5	73.2	49.0	3587	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B021	Area	837680.1	835308.5	74.7	23.9	1785	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C001	Area	837722.3	835402.7	45.7	78.1	3573	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C002	Area	837680.8	835402.7	20.8	98.8	2050	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C003	Area	837657.6	835396.7	11.6	134.4	1559	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07

Note:

The working hours, dust emission rate and watering frequency of OWPC were assumed to be the same as the proposed works in TPSTW.

Scenario D1, D2 - List of Fugitive Dust Emission Sources (50% active works area of West Plant Upgrade and 50% active works area of OWPC)

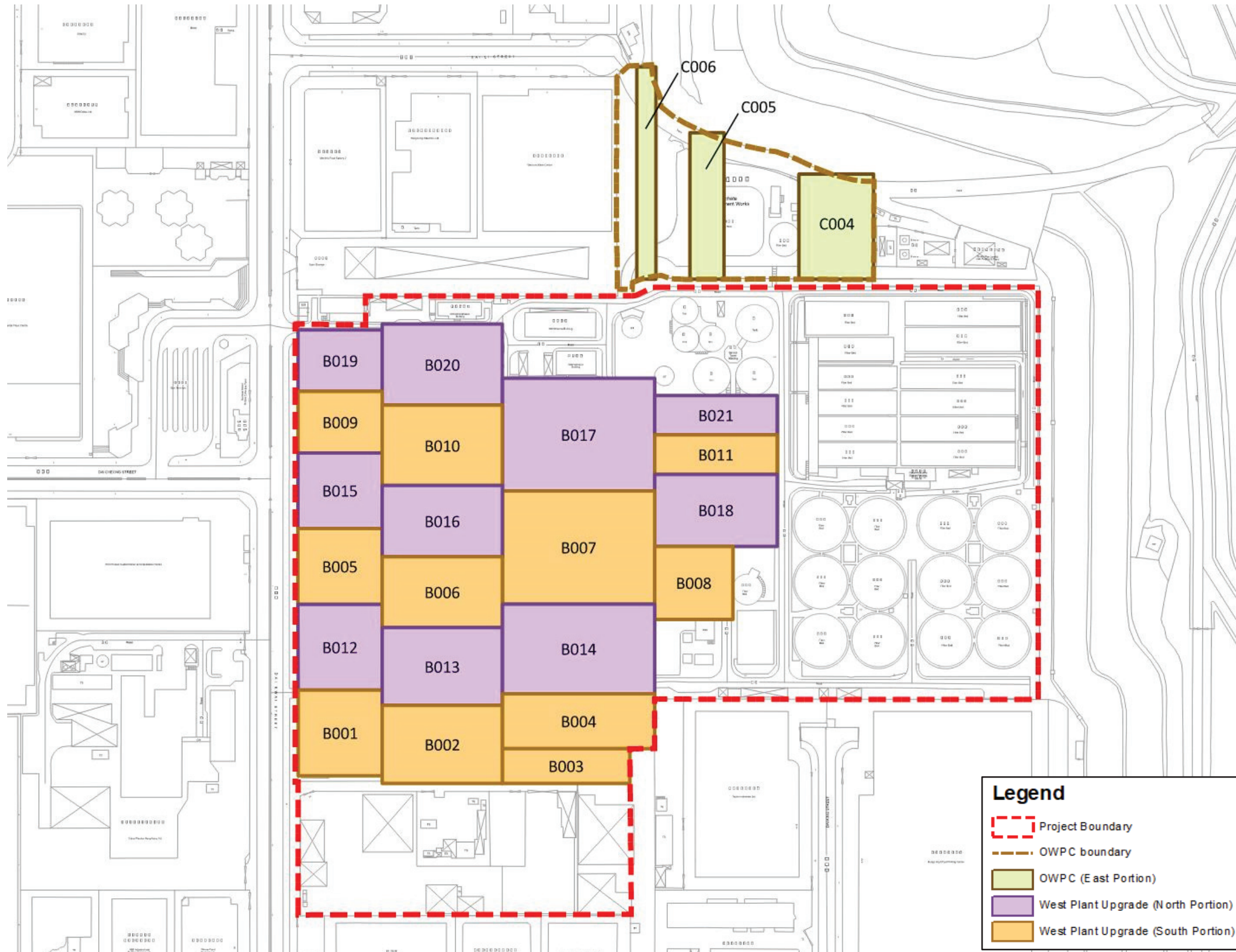


ID	Type	Coordinates		Length		Area (m ²)	Base Height (mPD)	Release Height (mAG)	Angle (degree)	Working Hour (8am to 6pm)			Non-Working Hour (6pm to 8am)		
		X	Y	X (m)	Y (m)					TSP	RSP	FSP	TSP	RSP	FSP
						(g/m ² /s)	(g/m ² /s)	(g/m ² /s)	(g/m ² /s)	(g/m ² /s)	(g/m ² /s)				
Scenario D3 - List of Fugitive Dust Emission Sources (50% active works area of West Plant Upgrade - South Portion and OWPC - East Portion)															
B001	Area	837462.7	835101.9	51.3	51.8	2657	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B002	Area	837514.0	835097.2	73.2	47.2	3455	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B003	Area	837587.3	835097.2	77.7	21.1	1639	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B004	Area	837587.3	835118.3	92.8	33.2	3081	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B005	Area	837462.5	835205.6	51.3	45.9	2355	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B006	Area	837514.0	835191.5	73.2	43.0	3148	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B007	Area	837587.3	835205.8	92.8	68.5	6357	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B008	Area	837680.1	835196.5	47.7	44.1	2104	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B009	Area	837462.6	835297.5	51.4	37.3	1917	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B010	Area	837514.0	835277.5	73.2	49.0	3587	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B011	Area	837680.1	835284.6	74.7	23.9	1785	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C004	Area	837768.0	835402.7	45.5	63.6	2896	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C005	Area	837701.6	835402.7	20.8	88.6	1839	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C006	Area	837669.2	835402.7	11.6	128.4	1489	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
Scenario D4 - List of Fugitive Dust Emission Sources (50% active works area of West Plant Upgrade - North Portion and OWPC - East Portion)															
B012	Area	837462.7	835153.7	51.3	51.8	2657	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B013	Area	837514.0	835144.4	73.2	47.2	3455	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B014	Area	837587.3	835151.5	92.8	54.3	5039	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B015	Area	837462.5	835251.5	51.3	45.9	2355	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B016	Area	837514.0	835234.5	73.2	43.0	3148	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B017	Area	837587.3	835274.3	92.8	68.5	6357	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B018	Area	837680.1	835240.6	74.7	44.1	3294	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B019	Area	837462.6	835334.8	51.4	37.3	1917	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B020	Area	837514.0	835326.5	73.2	49.0	3587	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
B021	Area	837680.1	835308.5	74.7	23.9	1785	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C004	Area	837768.0	835402.7	45.5	63.6	2896	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C005	Area	837701.6	835402.7	20.8	88.6	1839	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07
C006	Area	837669.2	835402.7	11.6	128.4	1489	6	2.4	0	2.387E-05	1.128E-05	1.717E-06	2.695E-06	1.275E-06	1.941E-07

Note:

The working hours, dust emission rate and watering frequency of OWPC were assumed to be the same as the proposed works in TPSTW.

Scenario D3, D4 - List of Fugitive Dust Emission Sources (50% active works area of West Plant Upgrade and 50% active works area of OWPC)

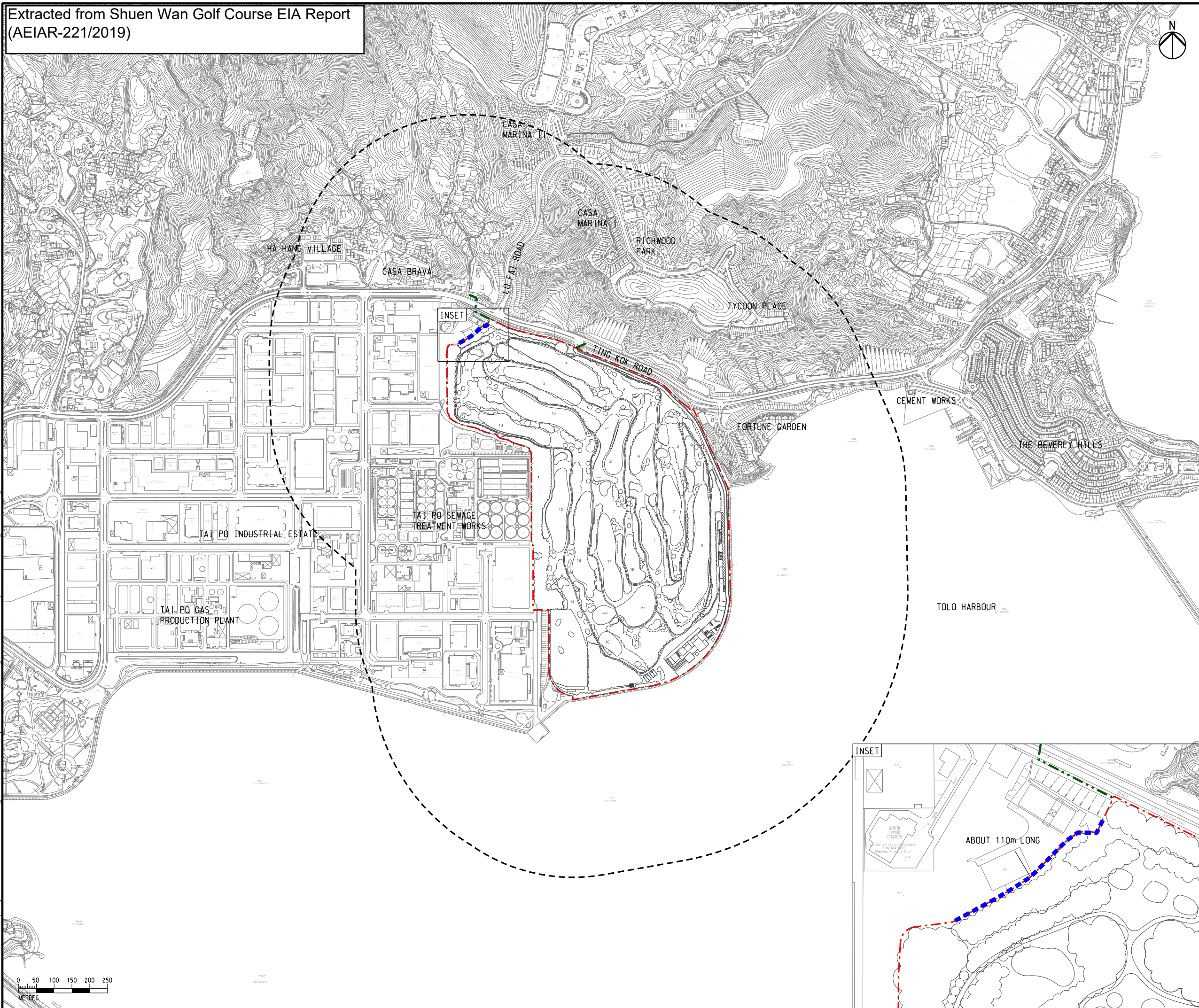


Appendix 2.8

3-m high Hoarding Proposed in the approved EIA Report for Shuen Wan Golf Course



- LEGEND**
- PROJECT BOUNDARY
 - PROPOSED DRAINAGE / SEWERAGE / WATERWORKS OUTSIDE SITE BOUNDARY
 - 500m ASSESSMENT AREA
 - PROPOSED 3m HIGH HOARDING EXTENT



Rev	Description	By	Date
B	SECOND ISSUE	GL	03/19
A	FIRST ISSUE	GL	01/19

Consultant
ARUP

Contract No. and Title
SHUEN WAN GOLF COURSE

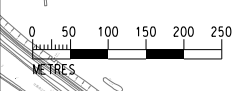
Drawing title
PROPOSED 3M HIGH HOARDING EXTENT

Drawing no. **FIGURE 3.2a** Rev. **B**

Drawn GL	Date 03/19	Checked EL	Approved FC
Scale 1:10000 @A3	Status PRELIMINARY		

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Printed by : 3/18/2019
Filename : G:\env\project\256383\13 Drawing Deliverables\report\002 EIA\Figure 3.2a - Proposed Hoarding Extent.dgn



Appendix 2.9

Construction Dust Mitigation Implementation Schedule

Construction Dust Management Plan
Construction Dust Mitigation Implementation Schedule
Shuen Wan Golf Course

CDMP Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage
S2.9.1.1	D1	Water spraying once every hour on exposed worksites and haul road	Minimise dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage
S2.9.1.1	D2	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	Minimise dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage
S2.9.1.1	D3	<p>The following dust suppression measures should be incorporated to control the dust nuisance throughout the construction phase:</p> <ul style="list-style-type: none"> • Any stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; • Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; • A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones; • The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle; • Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcore; 	Minimise dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage

**Construction Dust Management Plan
Construction Dust Mitigation Implementation Schedule
Shuen Wan Golf Course**

CDMP Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage
		<ul style="list-style-type: none"> • The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials; • Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; • Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; • Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding; • Any skip hoist for material transport should be totally enclosed by impervious sheeting; • Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides; • Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; • Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with 				

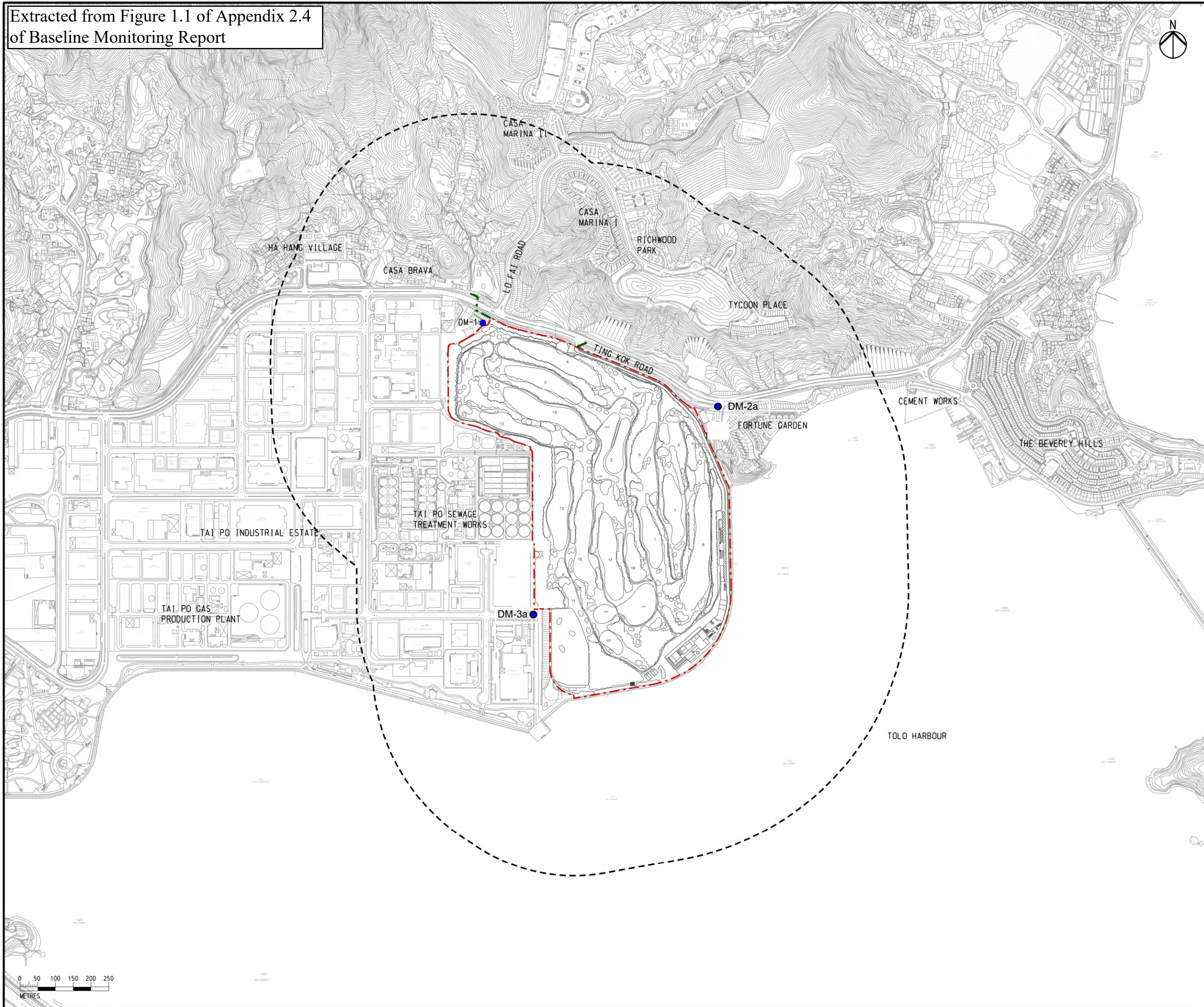
Construction Dust Management Plan
Construction Dust Mitigation Implementation Schedule
Shuen Wan Golf Course

CDMP Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage
		<p>an effective fabric filter or equivalent air pollution control system; and</p> <ul style="list-style-type: none"> Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies. 				
S2.9.1.1	D4	Implement regular dust monitoring under EM&A programme during the construction stage.	Monitoring of dust impact	Contractor	Selected dust monitoring stations	Construction stage
S2.9.1.1	D5	A 3m high hoarding at the northern boundary of the Project Site during construction stage.	Minimise dust impact at the nearby sensitive receivers	Contractor	Northern boundary of the Project Site, extent shown in Appendix 2.8	Construction stage
S2.9.1.1	D6	When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the Project Site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period	Minimise dust impact at the nearby sensitive receivers	Contractor	Along the Project Site boundary with provision for public crossing	Construction stage

Appendix 2.10

Construction Dust Monitoring Locations

Extracted from Figure 1.1 of Appendix 2.4
of Baseline Monitoring Report



- LEGEND
- PROJECT BOUNDARY
 - 500m ASSESSMENT AREA
 - PROPOSED DRAINAGE / SEWERAGE / WATERWORKS OUTSIDE SITE BOUNDARY
 - DUST MONITORING STATION

Contract No. and Title
Proposed Golf Course Development
at Tai Po Lot No.246 Shuen Wan

Drawing title
Locations of Dust
Monitoring Stations

Figure 1.1

Appendix 3.1

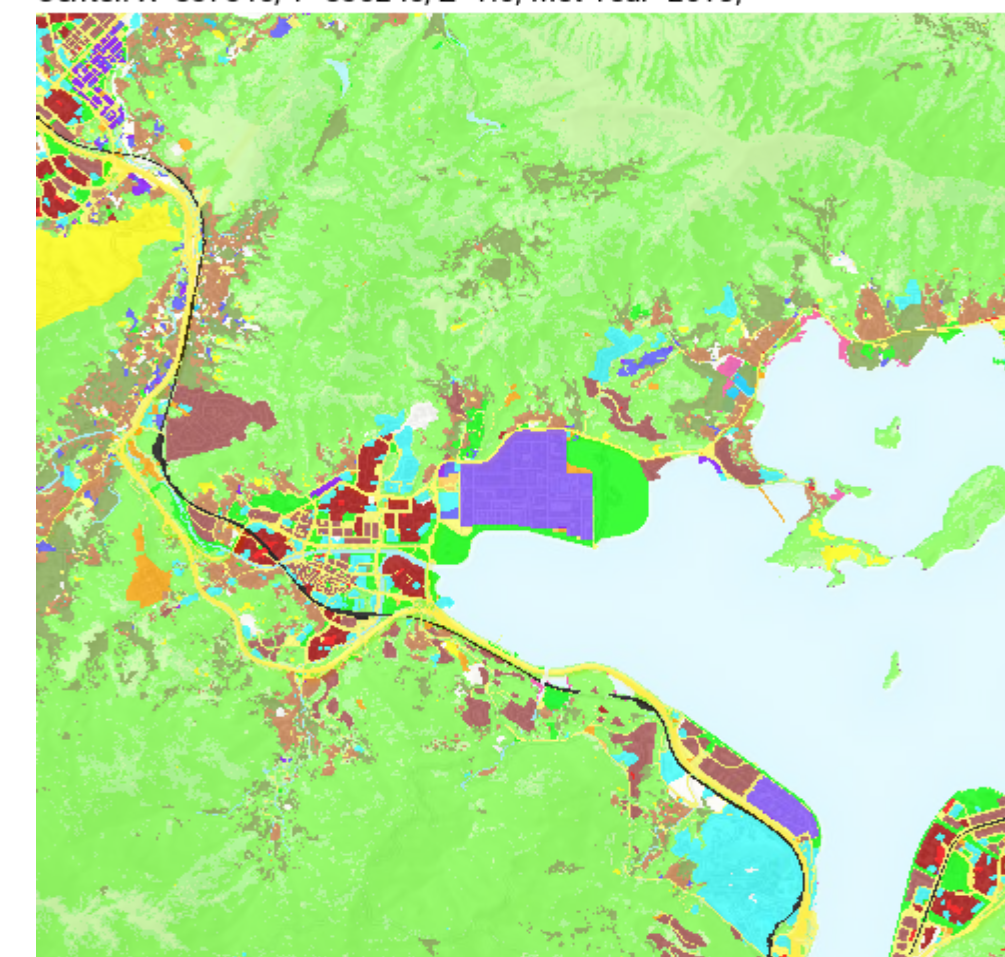
Surface Characteristics Parameters

41 48 - Albedo and Bowen Ratio

Code	Co	Hong Kong Planning Department Classification	Roughness	Albedo	Bowen Ratio	Grid Count	Percent	Albedo x Perce	b^An/Sn
1		Private Residential	1	0.18	1.5	24707	2.47%	0.00444726	1.010068173
2		Public Residential	1	0.18	1.5	12429	1.24%	0.00223722	1.005052246
3		Rural Settlement	0.375	0.165	0.9	34911	3.49%	0.005760315	0.996328515
11		Commercial/Business and Office	1	0.18	1.5	1206	0.12%	0.00021708	1.00048911
21		Industrial Land	0.7	0.18	1.5	2414	0.24%	0.00043452	1.000979272
22		Industrial Estates/Science and Technology Parks	0.7	0.18	1.5	13241	1.32%	0.00238338	1.005383201
23		Warehouse and Open Storage	0.7	0.18	1.5	3724	0.37%	0.00067032	1.001511093
31		Government, Institutional and Community Facilities	0.7	0.18	1.5	26501	2.65%	0.00477018	1.010803168
32		Open Space and Recreation	0.04	0.15	1	20822	2.08%	0.0031233	1
41		Roads and Transport Facilities	0.7	0.18	1.5	40743	4.07%	0.00733374	1.016657072
42		Railways	0.7	0.18	1.5	4088	0.41%	0.00073584	1.001658916
43		Airport	0.07	0.18	1.5	0	0.00%	0	1
44		Port Facilities	0.7	0.18	1.5	0	0.00%	0	1
51		Cemeteries/Funeral Facilities	0.7	0.18	1.5	13551	1.36%	0.00243918	1.00550958
52		Utilities	0.7	0.18	1.5	4430	0.44%	0.0007974	1.001797825
53		Vacant Land/Construction in Progress	0.2	0.18	1	7597	0.76%	0.00136746	1
54		Others	0.2	0.18	1	558	0.06%	0.00010044	1
61		Agricultural Land	0.1575	0.18	0.55	46918	4.69%	0.00844524	0.972340413
62		Fish Ponds/Gei Wais	0.001	0.1	0.1	789	0.08%	0.0000789	0.99818491
71		Woodland	1.05	0.1625	0.75	359100	35.91%	0.05835375	0.901850395
72		Shrubland	0.3	0.18	1.25	116707	11.67%	0.02100726	1.026384481
73		Grassland	0.065	0.185	0.8	69745	6.97%	0.012902825	0.984557333
74		Mangrove/Swamp	0.065	0.14	0.225	1362	0.14%	0.00019068	0.997970428
81		Badland	0.15	0.1625	0.75	0	0.00%	0	1
83		Rocky Shore	0.05	0.2	4.75	76	0.01%	0.0000152	1.000118426
91		Reservoirs	0.001	0.1	0.1	853	0.09%	0.0000853	0.998037823
92		Streams and Nullahs	0.001	0.1	0.1	3385	0.34%	0.0003385	0.992236046
99		SZ Residential *	1	0.18	1.5	0	0.00%	0	1
0		Open Sea *	0.001	0.1	0.1	190143	19.01%	0.0190143	0.64544167
				0.157250	0.596756	100000			

* Non-PlanD Land Utilization categories

Center: X=837345, Y=835245, Z=7.0; Met Year=2019;

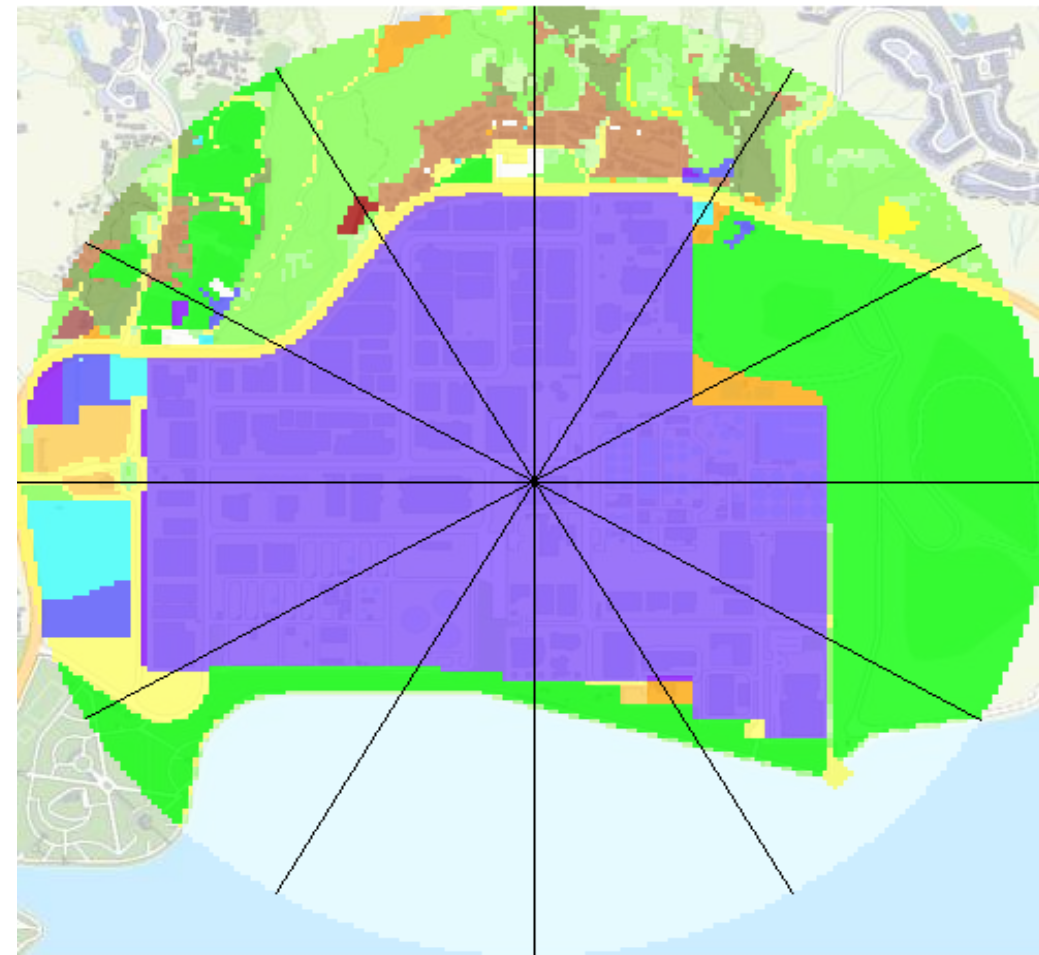


Land Utilization in Hong Kong 2022

41 48 - Surface Roughnes

Angle	Group	Inverse-distan	Roughness
0	0 - 30	5.176452751	0.574696
30	30 - 60	5.31768931	0.325104
60	60 - 90	5.176452751	0.203156
90	90 - 120	5.176452751	0.223656
120	120 - 150	5.31768931	0.161368
150	150 - 180	5.176452751	0.026506
180	180 - 210	5.176452751	0.018835
210	210 - 240	5.31768931	0.094087
240	240 - 270	5.176452751	0.675583
270	270 - 300	5.176452751	0.581857
300	300 - 330	5.31768931	0.491415
330	330 - 360	5.176452751	0.671816

Center: X=837345, Y=835245, Z=7.0; Met Year=2019;



Land Utilization in Hong Kong 2022

Code	Co	Hong Kong Planning Department Classification	Roughness	Albedo	Bowen Ratio
1		Private Residential	1	0.18	1.5
2		Public Residential	1	0.18	1.5
3		Rural Settlement	0.375	0.165	0.9
11		Commercial/Business and Office	1	0.18	1.5
21		Industrial Land	0.7	0.18	1.5
22		Industrial Estates/Science and Technology Parks	0.7	0.18	1.5
23		Warehouse and Open Storage	0.7	0.18	1.5
31		Government, Institutional and Community Facilities	0.7	0.18	1.5
32		Open Space and Recreation	0.04	0.15	1
41		Roads and Transport Facilities	0.7	0.18	1.5
42		Railways	0.7	0.18	1.5
43		Airport	0.07	0.18	1.5
44		Port Facilities	0.7	0.18	1.5
51		Cemeteries/Funeral Facilities	0.7	0.18	1.5
52		Utilities	0.7	0.18	1.5
53		Vacant Land/Construction in Progress	0.2	0.18	1
54		Others	0.2	0.18	1
61		Agricultural Land	0.1575	0.18	0.55
62		Fish Ponds/Gei Wais	0.001	0.1	0.1
71		Woodland	1.05	0.1625	0.75
72		Shrubland	0.3	0.18	1.25
73		Grassland	0.065	0.185	0.8
74		Mangrove/Swamp	0.065	0.14	0.225
81		Badland	0.15	0.1625	0.75
83		Rocky Shore	0.05	0.2	4.75
91		Reservoirs	0.001	0.1	0.1
92		Streams and Nullahs	0.001	0.1	0.1
99		SZ Residential *	1	0.18	1.5
0		Open Sea *	0.001	0.1	0.1

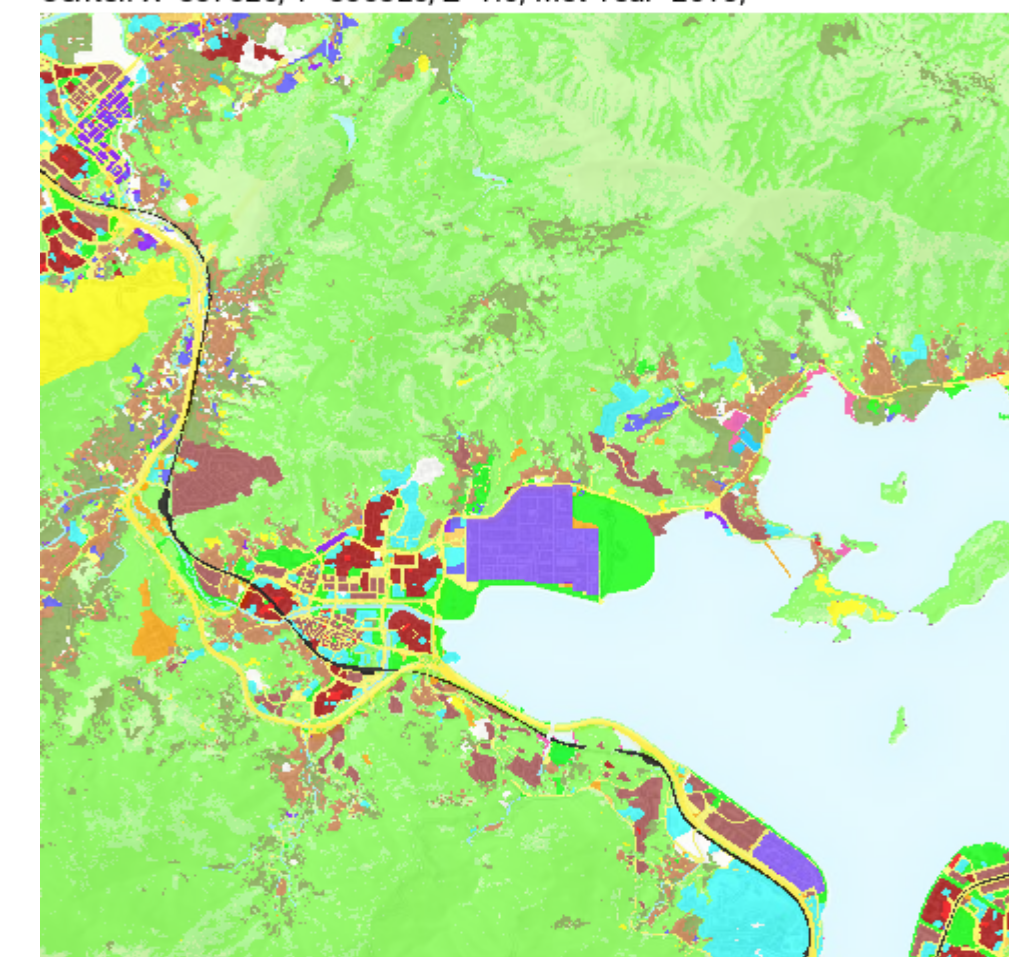
* Non-PlanD Land Utilization categories

41 49 - Albedo and Bowen Ratio

Code	Co	Hong Kong Planning Department Classification	Roughness	Albedo	Bowen Ratio	Grid Count	Percent	Albedo x Perce	b^An/Sn
1		Private Residential	1	0.18	1.5	23060	2.31%	0.0041508	1.009393873
2		Public Residential	1	0.18	1.5	12957	1.30%	0.00233226	1.005267436
3		Rural Settlement	0.375	0.165	0.9	38317	3.83%	0.006322305	0.995971039
11		Commercial/Business and Office	1	0.18	1.5	1031	0.10%	0.00018558	1.000418122
21		Industrial Land	0.7	0.18	1.5	2731	0.27%	0.00049158	1.001107939
22		Industrial Estates/Science and Technology Parks	0.7	0.18	1.5	13241	1.32%	0.00238338	1.005383201
23		Warehouse and Open Storage	0.7	0.18	1.5	4756	0.48%	0.00085608	1.001930253
31		Government, Institutional and Community Facilities	0.7	0.18	1.5	25397	2.54%	0.00457146	1.0103508
32		Open Space and Recreation	0.04	0.15	1	20427	2.04%	0.00306405	1
41		Roads and Transport Facilities	0.7	0.18	1.5	38912	3.89%	0.00700416	1.01590258
42		Railways	0.7	0.18	1.5	3778	0.38%	0.00068004	1.001533021
43		Airport	0.07	0.18	1.5	0	0.00%	0	1
44		Port Facilities	0.7	0.18	1.5	0	0.00%	0	1
51		Cemeteries/Funeral Facilities	0.7	0.18	1.5	13974	1.40%	0.00251532	1.005682051
52		Utilities	0.7	0.18	1.5	4377	0.44%	0.00078786	1.001776297
53		Vacant Land/Construction in Progress	0.2	0.18	1	10887	1.09%	0.00195966	1
54		Others	0.2	0.18	1	824	0.08%	0.00014832	1
61		Agricultural Land	0.1575	0.18	0.55	54237	5.42%	0.00976266	0.968095165
62		Fish Ponds/Gei Wais	0.001	0.1	0.1	782	0.08%	0.0000782	0.998200999
71		Woodland	1.05	0.1625	0.75	338951	33.90%	0.055079538	0.907093156
72		Shrubland	0.3	0.18	1.25	124128	12.41%	0.02234304	1.028085529
73		Grassland	0.065	0.185	0.8	76613	7.66%	0.014173405	0.983049605
74		Mangrove/Swamp	0.065	0.14	0.225	1361	0.14%	0.00019054	0.997971917
81		Badland	0.15	0.1625	0.75	0	0.00%	0	1
83		Rocky Shore	0.05	0.2	4.75	76	0.01%	0.0000152	1.000118426
91		Reservoirs	0.001	0.1	0.1	750	0.08%	0.000075	0.998274551
92		Streams and Nullahs	0.001	0.1	0.1	3773	0.38%	0.0003773	0.991349975
99		SZ Residential *	1	0.18	1.5	0	0.00%	0	1
0		Open Sea *	0.001	0.1	0.1	184660	18.47%	0.018466	0.653642075
				0.158014	0.603978	1000000			

* Non-PlanD Land Utilization categories

Center: X=837325, Y=835825, Z=7.0; Met Year=2019;

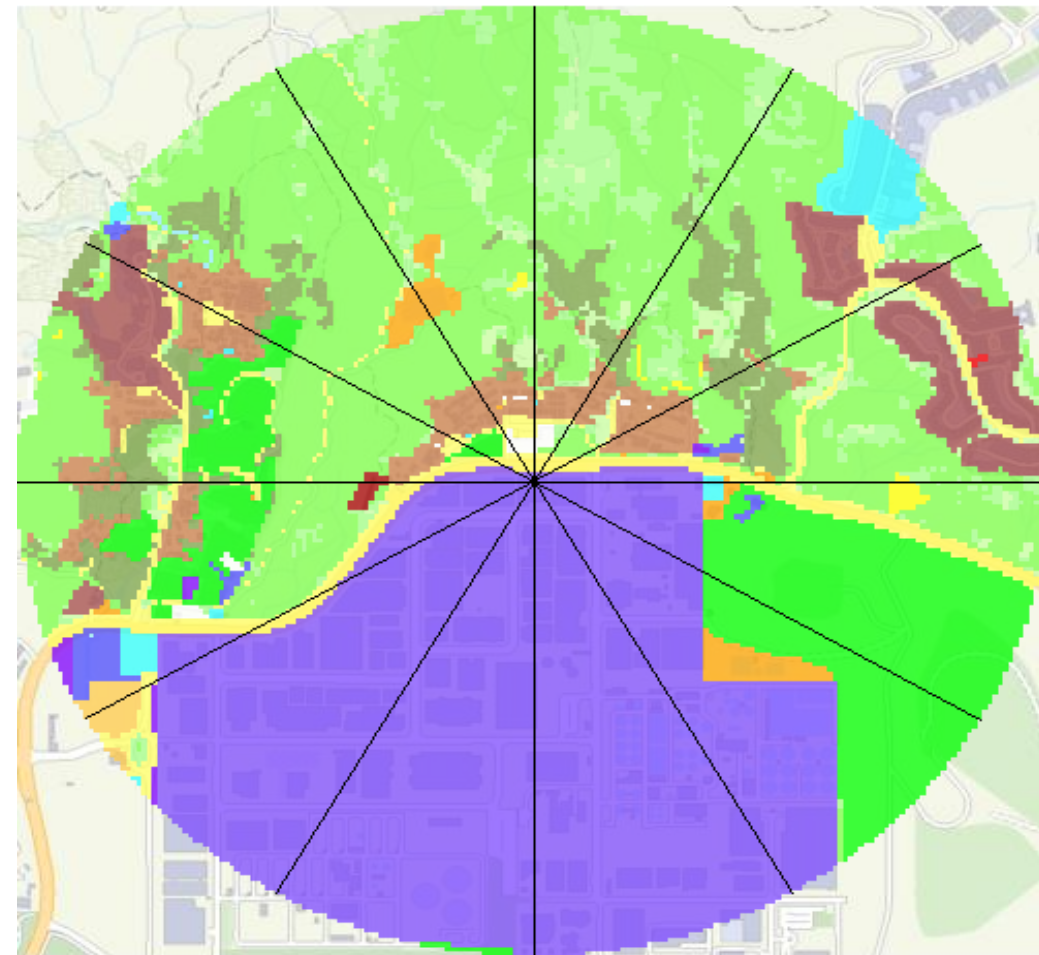


Land Utilization in Hong Kong 2022

41 49 - Surface Roughnes

Angle	Group	Inverse-distan	Roughness
0	0 - 30	5.176452751	0.517381
30	30 - 60	5.31768931	0.528686
60	60 - 90	5.176452751	0.612922
90	90 - 120	5.176452751	0.191374
120	120 - 150	5.31768931	0.355734
150	150 - 180	5.176452751	0.700000
180	180 - 210	5.176452751	0.690326
210	210 - 240	5.31768931	0.686536
240	240 - 270	5.176452751	0.476516
270	270 - 300	5.176452751	0.462907
300	300 - 330	5.31768931	0.576757
330	330 - 360	5.176452751	0.642462

Center: X=837325, Y=835825, Z=7.0; Met Year=2019;



Land Utilization in Hong Kong 2022

Code	Co	Hong Kong Planning Department Classification	Roughness	Albedo	Bowen Ratio
1		Private Residential	1	0.18	1.5
2		Public Residential	1	0.18	1.5
3		Rural Settlement	0.375	0.165	0.9
11		Commercial/Business and Office	1	0.18	1.5
21		Industrial Land	0.7	0.18	1.5
22		Industrial Estates/Science and Technology Parks	0.7	0.18	1.5
23		Warehouse and Open Storage	0.7	0.18	1.5
31		Government, Institutional and Community Facilities	0.7	0.18	1.5
32		Open Space and Recreation	0.04	0.15	1
41		Roads and Transport Facilities	0.7	0.18	1.5
42		Railways	0.7	0.18	1.5
43		Airport	0.07	0.18	1.5
44		Port Facilities	0.7	0.18	1.5
51		Cemeteries/Funeral Facilities	0.7	0.18	1.5
52		Utilities	0.7	0.18	1.5
53		Vacant Land/Construction in Progress	0.2	0.18	1
54		Others	0.2	0.18	1
61		Agricultural Land	0.1575	0.18	0.55
62		Fish Ponds/Gei Wais	0.001	0.1	0.1
71		Woodland	1.05	0.1625	0.75
72		Shrubland	0.3	0.18	1.25
73		Grassland	0.065	0.185	0.8
74		Mangrove/Swamp	0.065	0.14	0.225
81		Badland	0.15	0.1625	0.75
83		Rocky Shore	0.05	0.2	4.75
91		Reservoirs	0.001	0.1	0.1
92		Streams and Nullahs	0.001	0.1	0.1
99		SZ Residential *	1	0.18	1.5
0		Open Sea *	0.001	0.1	0.1

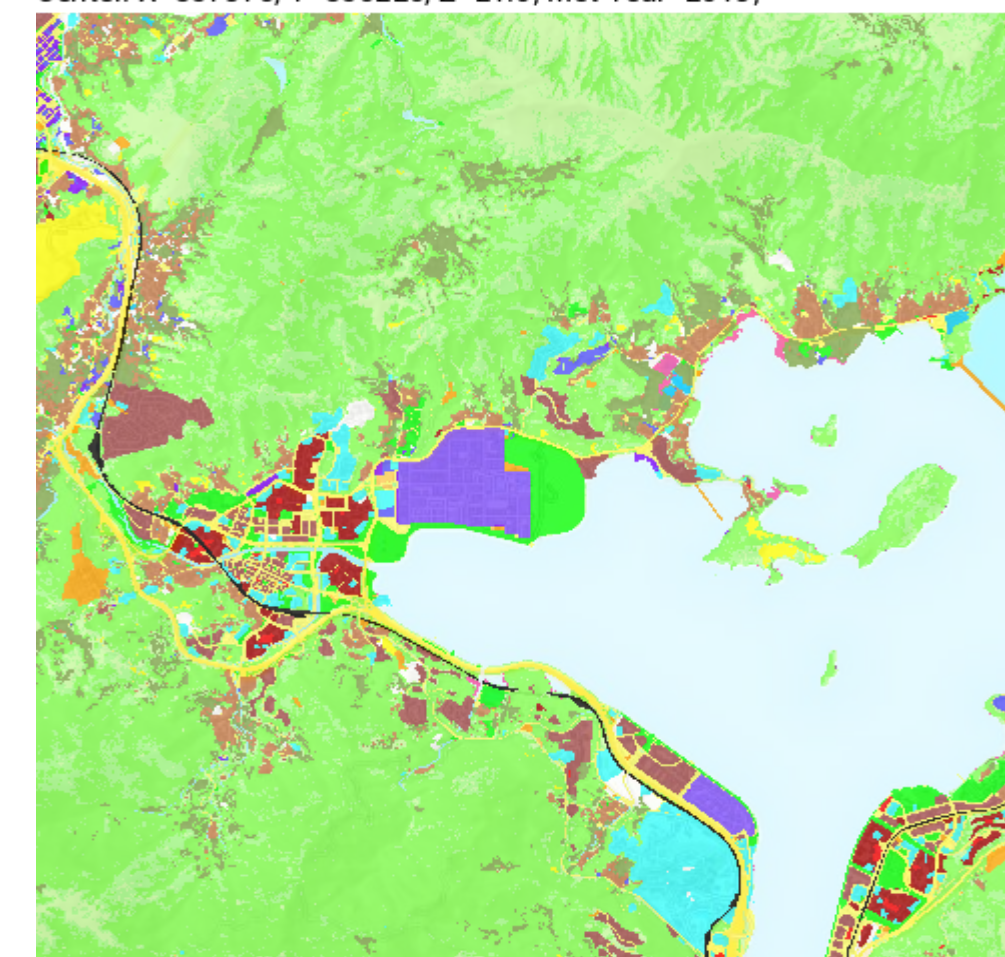
* Non-PlanD Land Utilization categories

42 48 - Albedo and Bowen Ratio

Code	Co	Hong Kong Planning Department Classification	Roughness	Albedo	Bowen Ratio	Grid Count	Percent	Albedo x Perce	b^An/Sn
1		Private Residential	1	0.18	1.5	23997	2.40%	0.00431946	1.009777436
2		Public Residential	1	0.18	1.5	11261	1.13%	0.00202698	1.004576382
3		Rural Settlement	0.375	0.165	0.9	31175	3.12%	0.005143875	0.996720774
11		Commercial/Business and Office	1	0.18	1.5	1152	0.12%	0.00020736	1.000467205
21		Industrial Land	0.7	0.18	1.5	1773	0.18%	0.00031914	1.000719148
22		Industrial Estates/Science and Technology Parks	0.7	0.18	1.5	13241	1.32%	0.00238338	1.005383201
23		Warehouse and Open Storage	0.7	0.18	1.5	3827	0.38%	0.00068886	1.00155292
31		Government, Institutional and Community Facilities	0.7	0.18	1.5	24864	2.49%	0.00447552	1.010132474
32		Open Space and Recreation	0.04	0.15	1	20915	2.09%	0.00313725	1
41		Roads and Transport Facilities	0.7	0.18	1.5	37599	3.76%	0.00676782	1.015361882
42		Railways	0.7	0.18	1.5	4074	0.41%	0.00073332	1.00165323
43		Airport	0.07	0.18	1.5	0	0.00%	0	1
44		Port Facilities	0.7	0.18	1.5	0	0.00%	0	1
51		Cemeteries/Funeral Facilities	0.7	0.18	1.5	7650	0.77%	0.001377	1.003106624
52		Utilities	0.7	0.18	1.5	5478	0.55%	0.00098604	1.002223606
53		Vacant Land/Construction in Progress	0.2	0.18	1	7234	0.72%	0.00130212	1
54		Others	0.2	0.18	1	512	0.05%	0.00009216	1
61		Agricultural Land	0.1575	0.18	0.55	40151	4.02%	0.00722718	0.976282045
62		Fish Ponds/Gei Wais	0.001	0.1	0.1	800	0.08%	0.00008	0.998159627
71		Woodland	1.05	0.1625	0.75	351828	35.18%	0.05717205	0.903739062
72		Shrubland	0.3	0.18	1.25	118316	11.83%	0.02129688	1.026753058
73		Grassland	0.065	0.185	0.8	68740	6.87%	0.0127169	0.984778154
74		Mangrove/Swamp	0.065	0.14	0.225	1382	0.14%	0.00019348	0.997940656
81		Badland	0.15	0.1625	0.75	0	0.00%	0	1
83		Rocky Shore	0.05	0.2	4.75	76	0.01%	0.0000152	1.000118426
91		Reservoirs	0.001	0.1	0.1	10118	1.01%	0.0010118	0.976971737
92		Streams and Nullahs	0.001	0.1	0.1	3155	0.32%	0.0003155	0.992761668
99		SZ Residential *	1	0.18	1.5	0	0.00%	0	1
0		Open Sea *	0.001	0.1	0.1	210682	21.07%	0.0210682	0.615627484
			0.155057	0.558669		100000			

* Non-PlanD Land Utilization categories

Center: X=837975, Y=835225, Z=21.0; Met Year=2019;

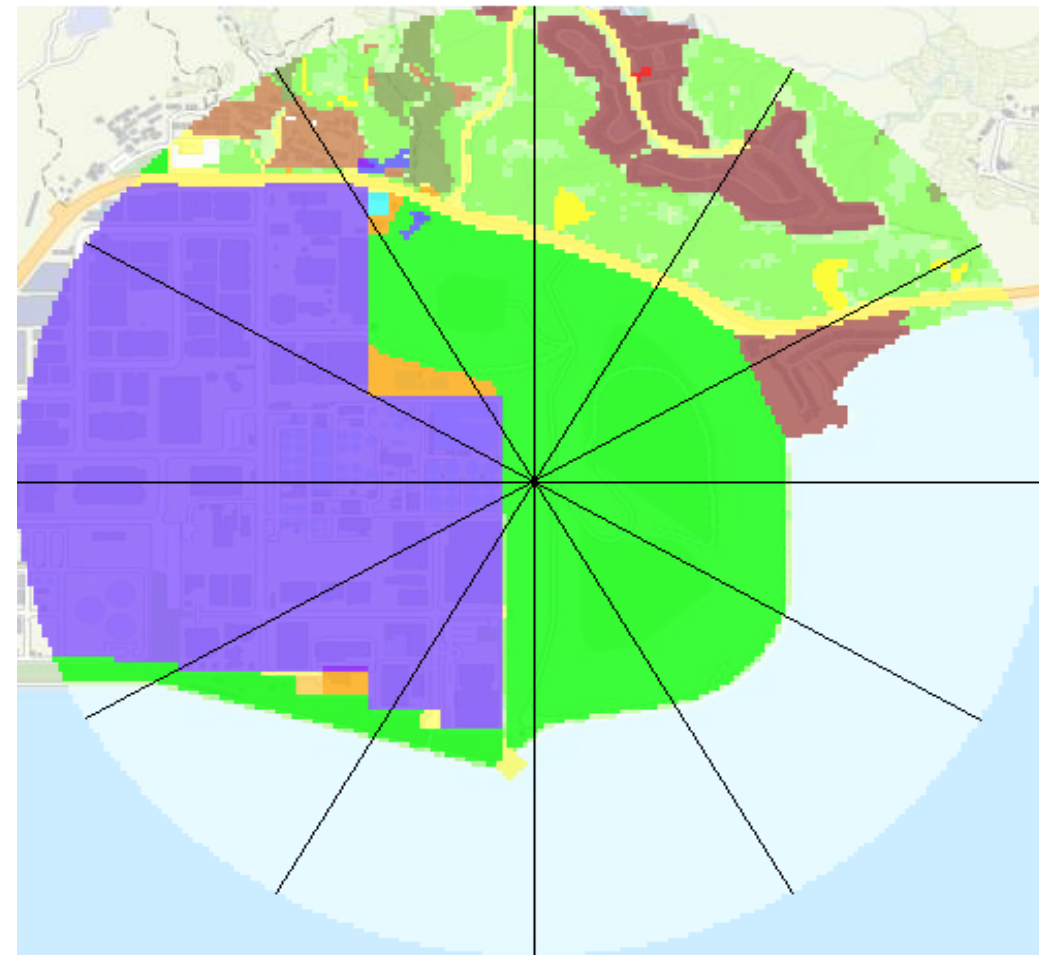


Land Utilization in Hong Kong 2022

42 48 - Surface Roughnes

Angle	Group	Inverse-distan	Roughness
0	0 - 30	5.176452751	0.190596
30	30 - 60	5.31768931	0.177889
60	60 - 90	5.176452751	0.021071
90	90 - 120	5.176452751	0.006797
120	120 - 150	5.31768931	0.008409
150	150 - 180	5.176452751	0.006801
180	180 - 210	5.176452751	0.021382
210	210 - 240	5.31768931	0.065638
240	240 - 270	5.176452751	0.522139
270	270 - 300	5.176452751	0.602321
300	300 - 330	5.31768931	0.351635
330	330 - 360	5.176452751	0.133325

Center: X=837975, Y=835225, Z=21.0; Met Year=2019;



Land Utilization in Hong Kong 2022

Code	Co	Hong Kong Planning Department Classification	Roughness	Albedo	Bowen Ratio
1		Private Residential	1	0.18	1.5
2		Public Residential	1	0.18	1.5
3		Rural Settlement	0.375	0.165	0.9
11		Commercial/Business and Office	1	0.18	1.5
21		Industrial Land	0.7	0.18	1.5
22		Industrial Estates/Science and Technology Parks	0.7	0.18	1.5
23		Warehouse and Open Storage	0.7	0.18	1.5
31		Government, Institutional and Community Facilities	0.7	0.18	1.5
32		Open Space and Recreation	0.04	0.15	1
41		Roads and Transport Facilities	0.7	0.18	1.5
42		Railways	0.7	0.18	1.5
43		Airport	0.07	0.18	1.5
44		Port Facilities	0.7	0.18	1.5
51		Cemeteries/Funeral Facilities	0.7	0.18	1.5
52		Utilities	0.7	0.18	1.5
53		Vacant Land/Construction in Progress	0.2	0.18	1
54		Others	0.2	0.18	1
61		Agricultural Land	0.1575	0.18	0.55
62		Fish Ponds/Gei Wais	0.001	0.1	0.1
71		Woodland	1.05	0.1625	0.75
72		Shrubland	0.3	0.18	1.25
73		Grassland	0.065	0.185	0.8
74		Mangrove/Swamp	0.065	0.14	0.225
81		Badland	0.15	0.1625	0.75
83		Rocky Shore	0.05	0.2	4.75
91		Reservoirs	0.001	0.1	0.1
92		Streams and Nullahs	0.001	0.1	0.1
99		SZ Residential *	1	0.18	1.5
0		Open Sea *	0.001	0.1	0.1

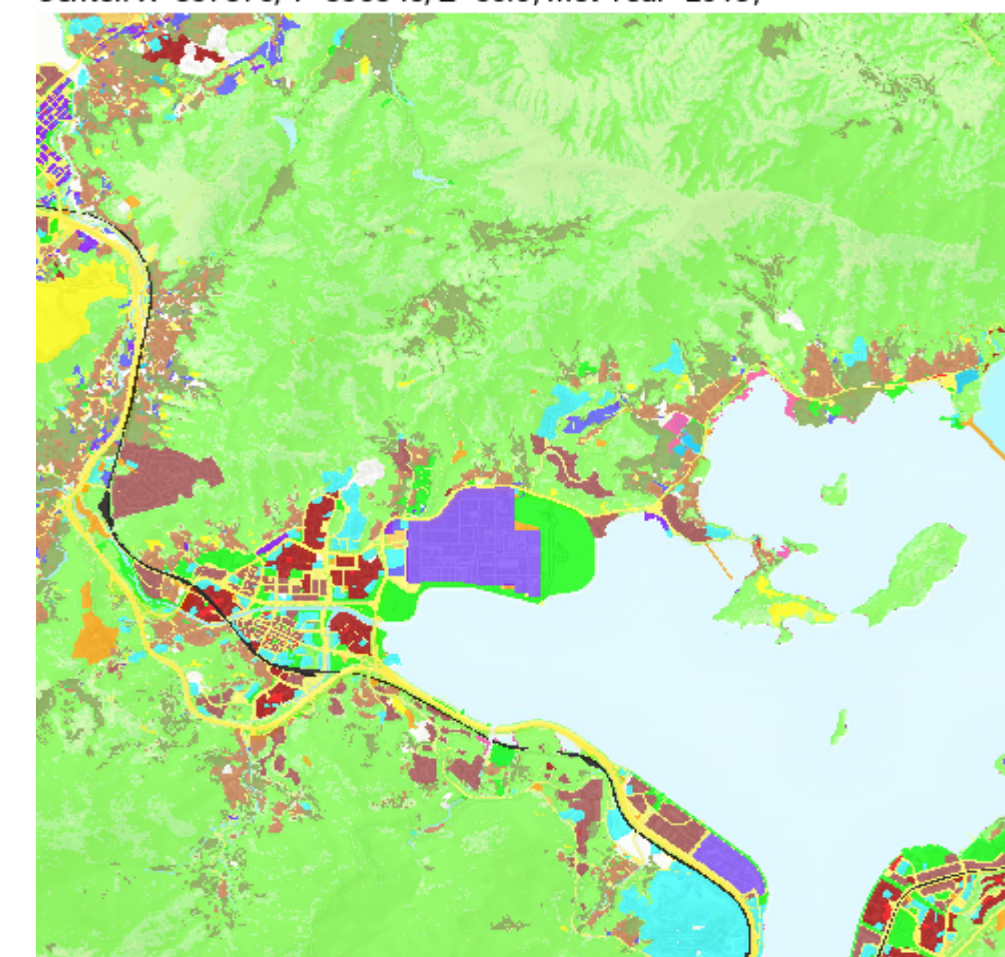
* Non-PlanD Land Utilization categories

42 49 - Albedo and Bowen Ratio

Code	Co	Hong Kong Planning Department Classification	Roughness	Albedo	Bowen Ratio	Grid Count	Percent	Albedo x Perce	b^An/Sn
1		Private Residential	1	0.18	1.5	22337	2.23%	0.00402066	1.009098012
2		Public Residential	1	0.18	1.5	11310	1.13%	0.0020358	1.004596341
3		Rural Settlement	0.375	0.165	0.9	35477	3.55%	0.005853705	0.996269102
11		Commercial/Business and Office	1	0.18	1.5	917	0.09%	0.00016506	1.000371881
21		Industrial Land	0.7	0.18	1.5	2441	0.24%	0.00043938	1.00099023
22		Industrial Estates/Science and Technology Parks	0.7	0.18	1.5	13241	1.32%	0.00238338	1.005383201
23		Warehouse and Open Storage	0.7	0.18	1.5	4850	0.49%	0.000873	1.001968441
31		Government, Institutional and Community Facilities	0.7	0.18	1.5	23188	2.32%	0.00417384	1.009446262
32		Open Space and Recreation	0.04	0.15	1	20533	2.05%	0.00307995	1
41		Roads and Transport Facilities	0.7	0.18	1.5	35816	3.58%	0.00644688	1.014628097
42		Railways	0.7	0.18	1.5	3736	0.37%	0.00067248	1.001515966
43		Airport	0.07	0.18	1.5	0	0.00%	0	1
44		Port Facilities	0.7	0.18	1.5	0	0.00%	0	1
51		Cemeteries/Funeral Facilities	0.7	0.18	1.5	8767	0.88%	0.00157806	1.003561038
52		Utilities	0.7	0.18	1.5	5359	0.54%	0.00096462	1.00217525
53		Vacant Land/Construction in Progress	0.2	0.18	1	10273	1.03%	0.00184914	1
54		Others	0.2	0.18	1	877	0.09%	0.00015786	1
61		Agricultural Land	0.1575	0.18	0.55	47332	4.73%	0.00851976	0.972099784
62		Fish Ponds/Gei Wais	0.001	0.1	0.1	789	0.08%	0.0000789	0.99818491
71		Woodland	1.05	0.1625	0.75	334559	33.46%	0.054365838	0.908239992
72		Shrubland	0.3	0.18	1.25	126372	12.64%	0.02274696	1.028600455
73		Grassland	0.065	0.185	0.8	76158	7.62%	0.01408923	0.98314942
74		Mangrove/Swamp	0.065	0.14	0.225	1381	0.14%	0.00019334	0.997942145
81		Badland	0.15	0.1625	0.75	0	0.00%	0	1
83		Rocky Shore	0.05	0.2	4.75	76	0.01%	0.0000152	1.000118426
91		Reservoirs	0.001	0.1	0.1	7635	0.76%	0.0007635	0.982573394
92		Streams and Nullahs	0.001	0.1	0.1	3513	0.35%	0.0003513	0.991943646
99		SZ Residential *	1	0.18	1.5	0	0.00%	0	1
0		Open Sea *	0.001	0.1	0.1	203063	20.31%	0.0203063	0.626522973
			0.156124	0.570885		100000			

* Non-PlanD Land Utilization categories

Center: X=837875, Y=835845, Z=30.0; Met Year=2019;

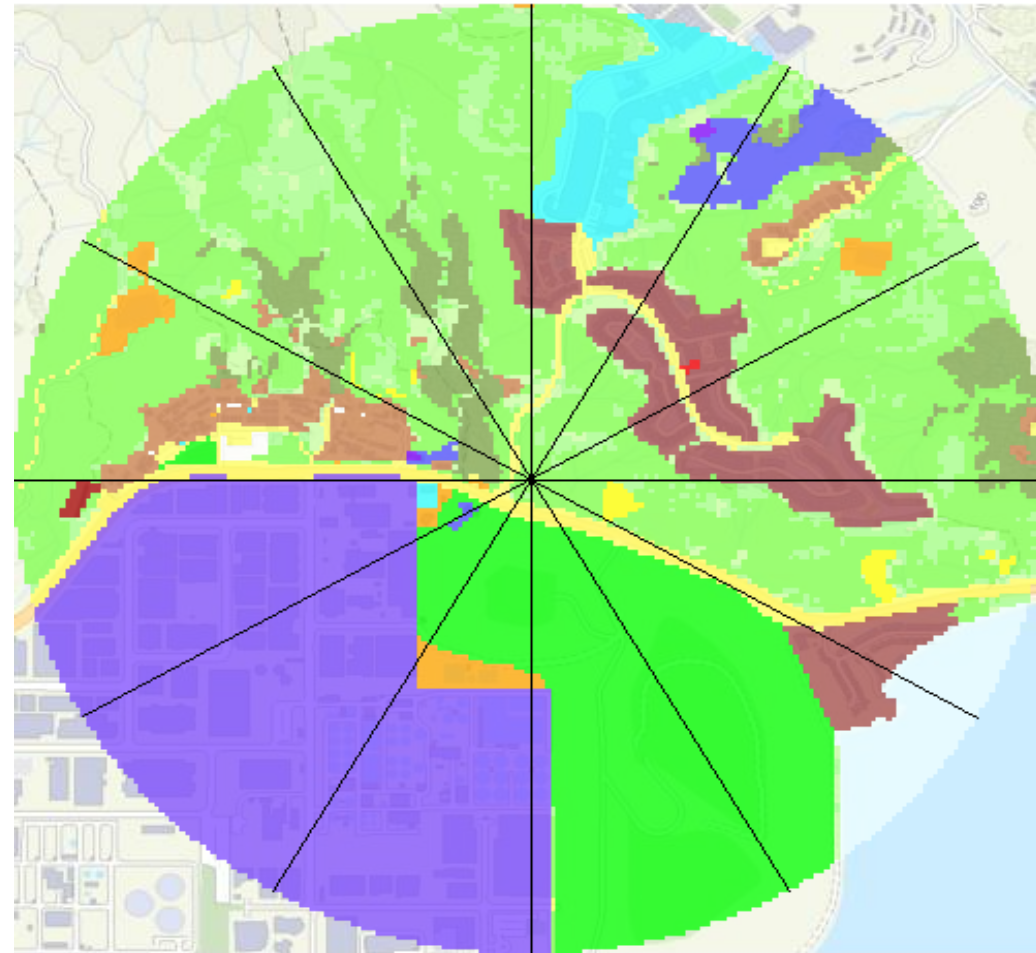


Land Utilization in Hong Kong 2022

42 49 - Surface Roughnes

Angle	Group	Inverse-distan	Roughness
0	0 - 30	5.176452751	0.668335
30	30 - 60	5.31768931	0.698773
60	60 - 90	5.176452751	0.728212
90	90 - 120	5.176452751	0.522598
120	120 - 150	5.31768931	0.065910
150	150 - 180	5.176452751	0.065065
180	180 - 210	5.176452751	0.288253
210	210 - 240	5.31768931	0.382916
240	240 - 270	5.176452751	0.633890
270	270 - 300	5.176452751	0.524365
300	300 - 330	5.31768931	0.487122
330	330 - 360	5.176452751	0.602847

Center: X=837875, Y=835845, Z=30.0; Met Year=2019;



Land Utilization in Hong Kong 2022

Code	Co	Hong Kong Planning Department Classification	Roughness	Albedo	Bowen Ratio
1		Private Residential	1	0.18	1.5
2		Public Residential	1	0.18	1.5
3		Rural Settlement	0.375	0.165	0.9
11		Commercial/Business and Office	1	0.18	1.5
21		Industrial Land	0.7	0.18	1.5
22		Industrial Estates/Science and Technology Parks	0.7	0.18	1.5
23		Warehouse and Open Storage	0.7	0.18	1.5
31		Government, Institutional and Community Facilities	0.7	0.18	1.5
32		Open Space and Recreation	0.04	0.15	1
41		Roads and Transport Facilities	0.7	0.18	1.5
42		Railways	0.7	0.18	1.5
43		Airport	0.07	0.18	1.5
44		Port Facilities	0.7	0.18	1.5
51		Cemeteries/Funeral Facilities	0.7	0.18	1.5
52		Utilities	0.7	0.18	1.5
53		Vacant Land/Construction in Progress	0.2	0.18	1
54		Others	0.2	0.18	1
61		Agricultural Land	0.1575	0.18	0.55
62		Fish Ponds/Gei Wais	0.001	0.1	0.1
71		Woodland	1.05	0.1625	0.75
72		Shrubland	0.3	0.18	1.25
73		Grassland	0.065	0.185	0.8
74		Mangrove/Swamp	0.065	0.14	0.225
81		Badland	0.15	0.1625	0.75
83		Rocky Shore	0.05	0.2	4.75
91		Reservoirs	0.001	0.1	0.1
92		Streams and Nullahs	0.001	0.1	0.1
99		SZ Residential *	1	0.18	1.5
0		Open Sea *	0.001	0.1	0.1

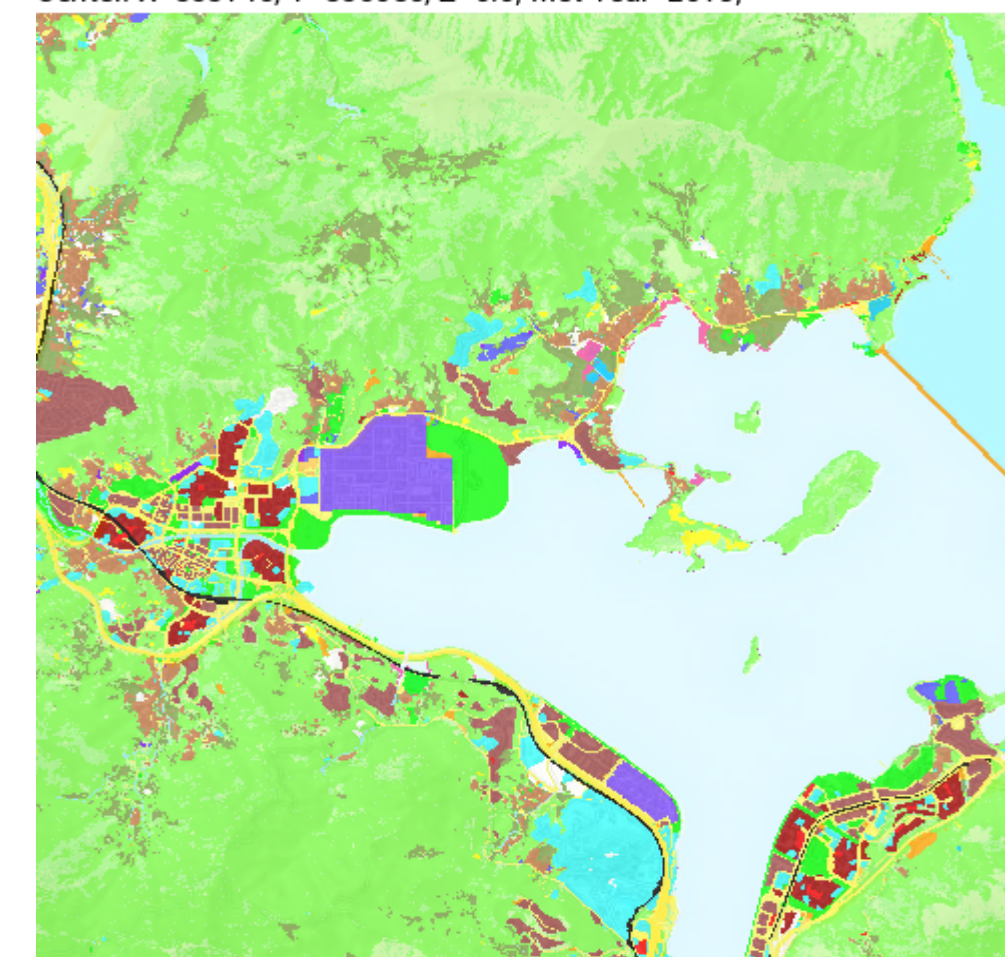
* Non-PlanD Land Utilization categories

43 48 - Albedo and Bowen Ratio

Code	Co	Hong Kong Planning Department Classification	Roughness	Albedo	Bowen Ratio	Grid Count	Percent	Albedo x Perce	b^An/Sn
1		Private Residential	1	0.18	1.5	25568	2.56%	0.00460224	1.010420855
2		Public Residential	1	0.18	1.5	11297	1.13%	0.00203346	1.004591046
3		Rural Settlement	0.375	0.165	0.9	24236	2.42%	0.00399894	0.99744974
11		Commercial/Business and Office	1	0.18	1.5	1172	0.12%	0.00021096	1.000475318
21		Industrial Land	0.7	0.18	1.5	659	0.07%	0.00011862	1.000267237
22		Industrial Estates/Science and Technology Parks	0.7	0.18	1.5	13241	1.32%	0.00238338	1.005383201
23		Warehouse and Open Storage	0.7	0.18	1.5	2551	0.26%	0.00045918	1.001034877
31		Government, Institutional and Community Facilities	0.7	0.18	1.5	25151	2.52%	0.00452718	1.010250028
32		Open Space and Recreation	0.04	0.15	1	20706	2.07%	0.0031059	1
41		Roads and Transport Facilities	0.7	0.18	1.5	34350	3.44%	0.006183	1.014025169
42		Railways	0.7	0.18	1.5	3562	0.36%	0.00064116	1.00144531
43		Airport	0.07	0.18	1.5	0	0.00%	0	1
44		Port Facilities	0.7	0.18	1.5	0	0.00%	0	1
51		Cemeteries/Funeral Facilities	0.7	0.18	1.5	3019	0.30%	0.00054342	1.001224849
52		Utilities	0.7	0.18	1.5	3384	0.34%	0.00060912	1.001373036
53		Vacant Land/Construction in Progress	0.2	0.18	1	5413	0.54%	0.00097434	1
54		Others	0.2	0.18	1	446	0.04%	0.00008028	1
61		Agricultural Land	0.1575	0.18	0.55	33629	3.36%	0.00605322	0.980096091
62		Fish Ponds/Gei Wais	0.001	0.1	0.1	728	0.07%	0.0000728	0.998325122
71		Woodland	1.05	0.1625	0.75	339663	33.97%	0.055195238	0.906907376
72		Shrubland	0.3	0.18	1.25	113010	11.30%	0.0203418	1.025538102
73		Grassland	0.065	0.185	0.8	65537	6.55%	0.012124345	0.985482255
74		Mangrove/Swamp	0.065	0.14	0.225	1411	0.14%	0.00019754	0.997897488
81		Badland	0.15	0.1625	0.75	0	0.00%	0	1
83		Rocky Shore	0.05	0.2	4.75	105	0.01%	0.000021	1.000163619
91		Reservoirs	0.001	0.1	0.1	38287	3.83%	0.0038287	0.915615213
92		Streams and Nullahs	0.001	0.1	0.1	2471	0.25%	0.0002471	0.994326468
99		SZ Residential *	1	0.18	1.5	0	0.00%	0	1
0		Open Sea *	0.001	0.1	0.1	230404	23.04%	0.0230404	0.588296142
				0.151593	0.502826	1000000			

* Non-PlanD Land Utilization categories

Center: X=838745, Y=835085, Z=0.0; Met Year=2019;

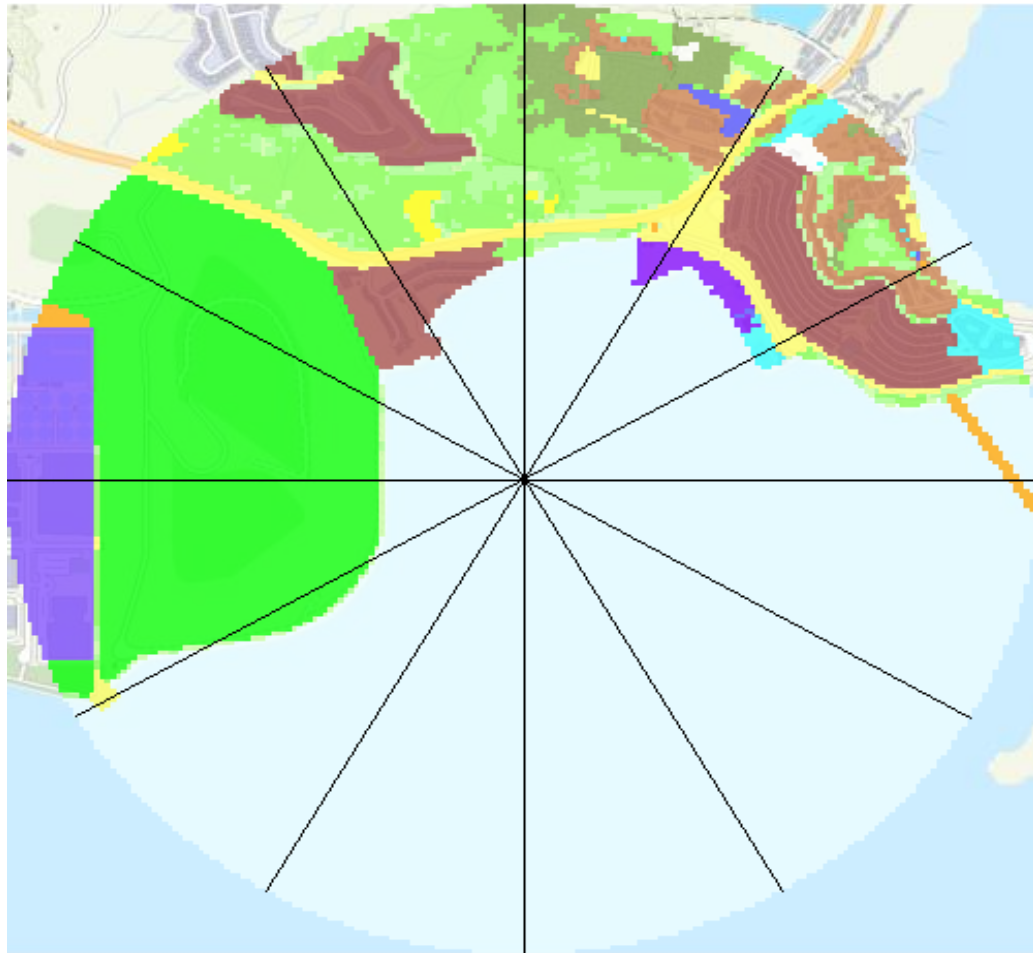


Land Utilization in Hong Kong 2022

43 48 - Surface Roughnes

Angle	Group	Inverse-distan	Roughness
0	0 - 30	5.176452751	0.020136
30	30 - 60	5.31768931	0.017087
60	60 - 90	5.176452751	0.004353
90	90 - 120	5.176452751	0.001026
120	120 - 150	5.31768931	0.001000
150	150 - 180	5.176452751	0.001000
180	180 - 210	5.176452751	0.001000
210	210 - 240	5.31768931	0.001227
240	240 - 270	5.176452751	0.019784
270	270 - 300	5.176452751	0.020152
300	300 - 330	5.31768931	0.031861
330	330 - 360	5.176452751	0.048201

Center: X=838745, Y=835085, Z=0.0; Met Year=2019;



Land Utilization in Hong Kong 2022

Code	Co	Hong Kong Planning Department Classification	Roughness	Albedo	Bowen Ratio
1		Private Residential	1	0.18	1.5
2		Public Residential	1	0.18	1.5
3		Rural Settlement	0.375	0.165	0.9
11		Commercial/Business and Office	1	0.18	1.5
21		Industrial Land	0.7	0.18	1.5
22		Industrial Estates/Science and Technology Parks	0.7	0.18	1.5
23		Warehouse and Open Storage	0.7	0.18	1.5
31		Government, Institutional and Community Facilities	0.7	0.18	1.5
32		Open Space and Recreation	0.04	0.15	1
41		Roads and Transport Facilities	0.7	0.18	1.5
42		Railways	0.7	0.18	1.5
43		Airport	0.07	0.18	1.5
44		Port Facilities	0.7	0.18	1.5
51		Cemeteries/Funeral Facilities	0.7	0.18	1.5
52		Utilities	0.7	0.18	1.5
53		Vacant Land/Construction in Progress	0.2	0.18	1
54		Others	0.2	0.18	1
61		Agricultural Land	0.1575	0.18	0.55
62		Fish Ponds/Gei Wais	0.001	0.1	0.1
71		Woodland	1.05	0.1625	0.75
72		Shrubland	0.3	0.18	1.25
73		Grassland	0.065	0.185	0.8
74		Mangrove/Swamp	0.065	0.14	0.225
81		Badland	0.15	0.1625	0.75
83		Rocky Shore	0.05	0.2	4.75
91		Reservoirs	0.001	0.1	0.1
92		Streams and Nullahs	0.001	0.1	0.1
99		SZ Residential *	1	0.18	1.5
0		Open Sea *	0.001	0.1	0.1

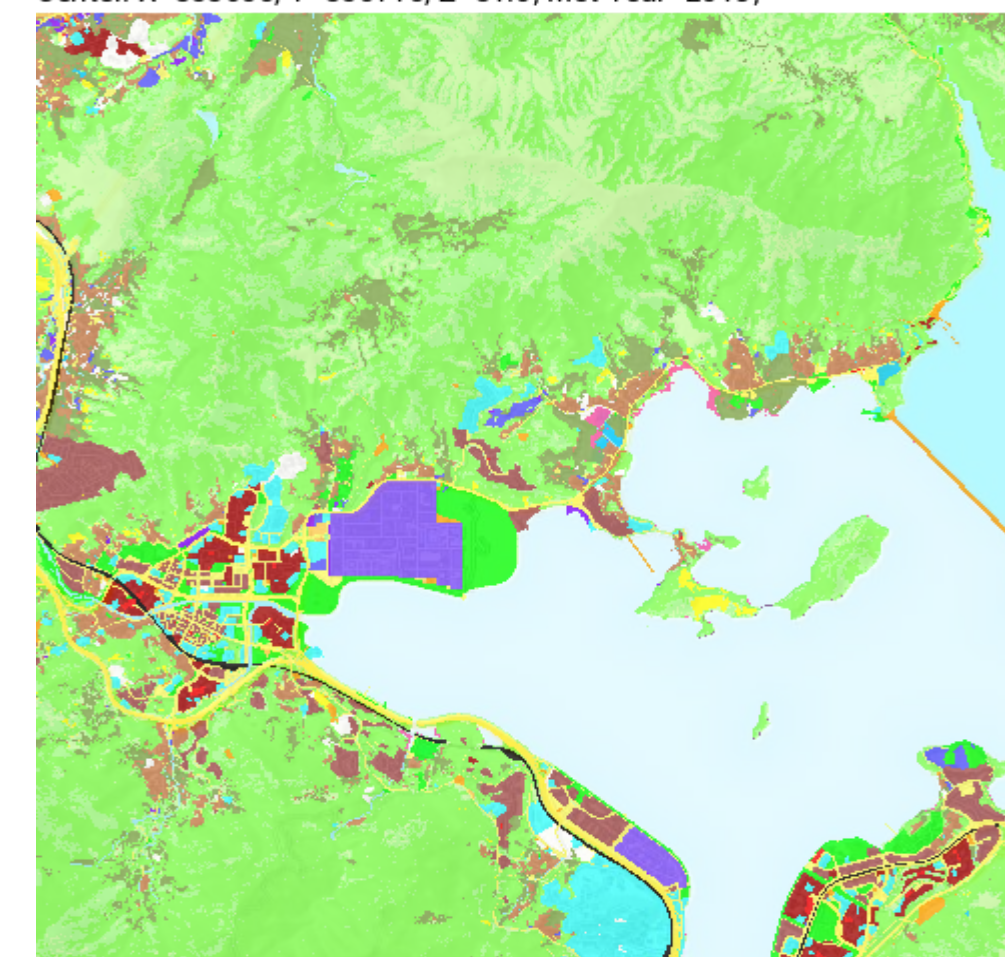
* Non-PlanD Land Utilization categories

43 49 - Albedo and Bowen Ratio

Code	Co	Hong Kong Planning Department Classification	Roughness	Albedo	Bowen Ratio	Grid Count	Percent	Albedo x Perce	b^An/Sn
1		Private Residential	1	0.18	1.5	23728	2.37%	0.00427104	1.009667305
2		Public Residential	1	0.18	1.5	11957	1.20%	0.00215226	1.004859918
3		Rural Settlement	0.375	0.165	0.9	27141	2.71%	0.004478265	0.997144495
11		Commercial/Business and Office	1	0.18	1.5	977	0.10%	0.00017586	1.000396218
21		Industrial Land	0.7	0.18	1.5	922	0.09%	0.00016596	1.000373909
22		Industrial Estates/Science and Technology Parks	0.7	0.18	1.5	13241	1.32%	0.00238338	1.005383201
23		Warehouse and Open Storage	0.7	0.18	1.5	3656	0.37%	0.00065808	1.00148348
31		Government, Institutional and Community Facilities	0.7	0.18	1.5	23181	2.32%	0.00417258	1.009443397
32		Open Space and Recreation	0.04	0.15	1	20515	2.05%	0.00307725	1
41		Roads and Transport Facilities	0.7	0.18	1.5	31927	3.19%	0.00574686	1.013029437
42		Railways	0.7	0.18	1.5	3361	0.34%	0.00060498	1.001363697
43		Airport	0.07	0.18	1.5	0	0.00%	0	1
44		Port Facilities	0.7	0.18	1.5	0	0.00%	0	1
51		Cemeteries/Funeral Facilities	0.7	0.18	1.5	3505	0.35%	0.0006309	1.001422166
52		Utilities	0.7	0.18	1.5	3425	0.34%	0.0006165	1.001389683
53		Vacant Land/Construction in Progress	0.2	0.18	1	6963	0.70%	0.00125334	1
54		Others	0.2	0.18	1	493	0.05%	0.00008874	1
61		Agricultural Land	0.1575	0.18	0.55	41271	4.13%	0.00742878	0.975628568
62		Fish Ponds/Gei Wais	0.001	0.1	0.1	784	0.08%	0.0000784	0.998196402
71		Woodland	1.05	0.1625	0.75	322289	32.23%	0.052371963	0.911451617
72		Shrubland	0.3	0.18	1.25	123740	12.37%	0.0222732	1.027996521
73		Grassland	0.065	0.185	0.8	74612	7.46%	0.01380322	0.983488645
74		Mangrove/Swamp	0.065	0.14	0.225	1411	0.14%	0.00019754	0.997897488
81		Badland	0.15	0.1625	0.75	0	0.00%	0	1
83		Rocky Shore	0.05	0.2	4.75	101	0.01%	0.0000202	1.000157385
91		Reservoirs	0.001	0.1	0.1	34935	3.49%	0.0034935	0.922709517
92		Streams and Nullahs	0.001	0.1	0.1	2800	0.28%	0.00028	0.993573501
99		SZ Residential *	1	0.18	1.5	0	0.00%	0	1
0		Open Sea *	0.001	0.1	0.1	223065	22.31%	0.0223065	0.598322039
			0.152729	0.514301		100000			

* Non-PlanD Land Utilization categories

Center: X=838655, Y=835775, Z=81.0; Met Year=2019;

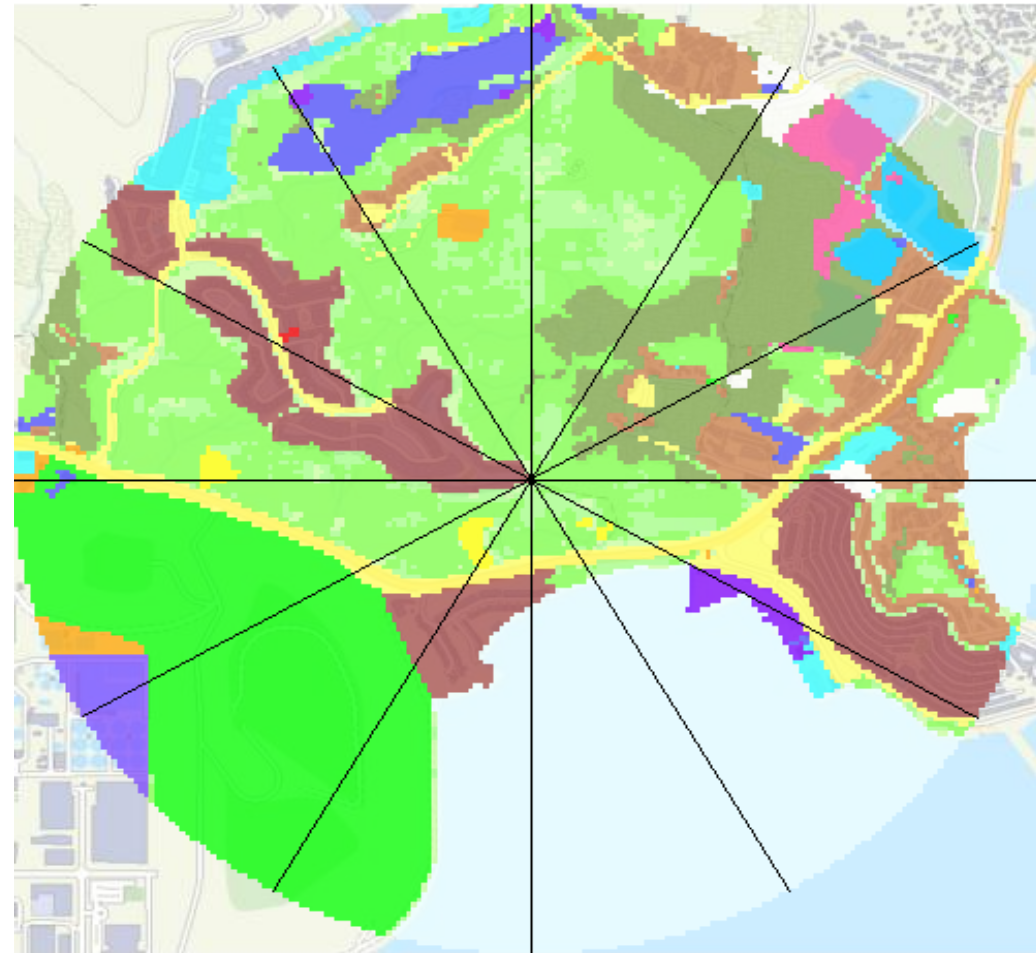


Land Utilization in Hong Kong 2022

43 49 - Surface Roughnes

Angle	Group	Inverse-distan	Roughness
0	0 - 30	5.176452751	0.445080
30	30 - 60	5.31768931	0.178085
60	60 - 90	5.176452751	0.288943
90	90 - 120	5.176452751	0.415681
120	120 - 150	5.31768931	0.010957
150	150 - 180	5.176452751	0.004495
180	180 - 210	5.176452751	0.034782
210	210 - 240	5.31768931	0.137498
240	240 - 270	5.176452751	0.218147
270	270 - 300	5.176452751	0.741252
300	300 - 330	5.31768931	0.752254
330	330 - 360	5.176452751	0.659785

Center: X=838655, Y=835775, Z=81.0; Met Year=2019;



Land Utilization in Hong Kong 2022

Code	Co	Hong Kong Planning Department Classification	Roughness	Albedo	Bowen Ratio
1		Private Residential	1	0.18	1.5
2		Public Residential	1	0.18	1.5
3		Rural Settlement	0.375	0.165	0.9
11		Commercial/Business and Office	1	0.18	1.5
21		Industrial Land	0.7	0.18	1.5
22		Industrial Estates/Science and Technology Parks	0.7	0.18	1.5
23		Warehouse and Open Storage	0.7	0.18	1.5
31		Government, Institutional and Community Facilities	0.7	0.18	1.5
32		Open Space and Recreation	0.04	0.15	1
41		Roads and Transport Facilities	0.7	0.18	1.5
42		Railways	0.7	0.18	1.5
43		Airport	0.07	0.18	1.5
44		Port Facilities	0.7	0.18	1.5
51		Cemeteries/Funeral Facilities	0.7	0.18	1.5
52		Utilities	0.7	0.18	1.5
53		Vacant Land/Construction in Progress	0.2	0.18	1
54		Others	0.2	0.18	1
61		Agricultural Land	0.1575	0.18	0.55
62		Fish Ponds/Gei Wais	0.001	0.1	0.1
71		Woodland	1.05	0.1625	0.75
72		Shrubland	0.3	0.18	1.25
73		Grassland	0.065	0.185	0.8
74		Mangrove/Swamp	0.065	0.14	0.225
81		Badland	0.15	0.1625	0.75
83		Rocky Shore	0.05	0.2	4.75
91		Reservoirs	0.001	0.1	0.1
92		Streams and Nullahs	0.001	0.1	0.1
99		SZ Residential *	1	0.18	1.5
0		Open Sea *	0.001	0.1	0.1

* Non-PlanD Land Utilization categories

Appendix 4.1

Cumulative Results

Result Summary (Cumulative Highest 1-hour TSP) (Year 2024)

PATH Grid	ASR ID	Location	X	Y	Highest 1-hour TSP Concentration at various height (ug/m3)							
					1.5	5	10	15	20	30	40	
42_48	A1	Fortune Garden	838428	835480	194	179	179					
42_49	A2	Casa Marina I	838128	835914	169	167	161	153				
42_49	A3	Village House at 53 Ting Kok Road	837717	835867	171	171	171					
42_49	A4	Tai Po East Fire Station	837690	835818	175	176	176	175				
42_49	A5	Meyer Aluminum Limited	837652	835647	205	206	205	202				
42_48	A6	Watson's Water Centre	837654	835492	194	194	194	194	192			
42_48	A7	Hung Hing Printing Centre	837910	835141	229	223	218					
42_48	A8	Phoenix Television Coporation	837912	834785	180	180	182					
42_49	A9	Casa Brava	837585	835882	164	164	165					
42_49	A10	Casa Marina II	837910	836207	160	158	155	151				
42_49	A11	Tycoon Place	838478	835747	166	165	164	161	159			
42_49	A12	Hong Kong Landfill Restoration Group Limited	837752	835743	249	224	202					
42_49	A13	EPD Site Office	837775	835772	210	205						
42_49	A14	Lai Wah Garden Company Limited	837772	835855	174	174						
42_49	A15	Villa Lucca (Previous PA2)	838170	835836	172	169	161	159				

Result Summary (Cumulative 10th Highest 24-hour RSP) (Year 2024)

PATH Grid	ASR ID	Location	X	Y	10th Highest 24-hour RSP Concentration at various height (ug/m3)							
					1.5	5	10	15	20	30	40	
42_48	A1	Fortune Garden	838428	835480	68	68	67					
42_49	A2	Casa Marina I	838128	835914	68	67	67	66				
42_49	A3	Village House at 53 Ting Kok Road	837717	835867	70	70	70					
42_49	A4	Tai Po East Fire Station	837690	835818	71	71	71	70				
42_49	A5	Meyer Aluminum Limited	837652	835647	74	74	73	73				
42_48	A6	Watson's Water Centre	837654	835492	75	75	74	73	71			
42_48	A7	Hung Hing Printing Centre	837910	835141	79	77	75					
42_48	A8	Phoenix Television Coporation	837912	834785	67	67	66					
42_49	A9	Casa Brava	837585	835882	69	69	69					
42_49	A10	Casa Marina II	837910	836207	66	66	66	65				
42_49	A11	Tycoon Place	838478	835747	65	65	65	65	65			
42_49	A12	Hong Kong Landfill Restoration Group Limited	837752	835743	76	74	73					
42_49	A13	EPD Site Office	837775	835772	73	73						
42_49	A14	Lai Wah Garden Company Limited	837772	835855	70	70						
42_49	A15	Villa Lucca (Previous PA2)	838170	835836	68	68	67	66				

Result Summary (Cumulative Annual RSP) (Year 2024)

PATH Grid	ASR ID	Location	X	Y	Annual RSP Concentration at various height (ug/m3)							
					1.5	5	10	15	20	30	40	
42_48	A1	Fortune Garden	838428	835480	31	31	31					
42_49	A2	Casa Marina I	838128	835914	28	28	28	28				
42_49	A3	Village House at 53 Ting Kok Road	837717	835867	30	30	30					
42_49	A4	Tai Po East Fire Station	837690	835818	31	31	31	31				
42_49	A5	Meyer Aluminum Limited	837652	835647	33	33	33	34				
42_48	A6	Watson's Water Centre	837654	835492	36	36	36	35	34			
42_48	A7	Hung Hing Printing Centre	837910	835141	41	40	39					
42_48	A8	Phoenix Television Coporation	837912	834785	33	33	33					
42_49	A9	Casa Brava	837585	835882	30	30	30					
42_49	A10	Casa Marina II	837910	836207	28	28	28	28				
42_49	A11	Tycoon Place	838478	835747	28	28	28	28	28			
42_49	A12	Hong Kong Landfill Restoration Group Limited	837752	835743	35	34	33					
42_49	A13	EPD Site Office	837775	835772	33	33						
42_49	A14	Lai Wah Garden Company Limited	837772	835855	30	30						
42_49	A15	Villa Lucca (Previous PA2)	838170	835836	28	28	28	28				

Result Summary (Cumulative 36th Highest 24-hour FSP) (Year 2024)

PATH Grid	ASR ID	Location	X	Y	36th Highest 24-hour FSP Concentration at various height (ug/m3)							
					1.5	5	10	15	20	30	40	
42_48	A1	Fortune Garden	838428	835480	22	22	22					
42_49	A2	Casa Marina I	838128	835914	24	23	23	23				
42_49	A3	Village House at 53 Ting Kok Road	837717	835867	25	25	25					
42_49	A4	Tai Po East Fire Station	837690	835818	25	25	25	25				
42_49	A5	Meyer Aluminum Limited	837652	835647	25	25	27	27				
42_48	A6	Watson's Water Centre	837654	835492	24	24	24	23	24			
42_48	A7	Hung Hing Printing Centre	837910	835141	24	24	24					
42_48	A8	Phoenix Television Coporation	837912	834785	23	23	23					
42_49	A9	Casa Brava	837585	835882	25	25	24					
42_49	A10	Casa Marina II	837910	836207	23	23	23	23				
42_49	A11	Tycoon Place	838478	835747	24	24	24	24	24			
42_49	A12	Hong Kong Landfill Restoration Group Limited	837752	835743	26	26	25					
42_49	A13	EPD Site Office	837775	835772	25	25						
42_49	A14	Lai Wah Garden Company Limited	837772	835855	25	25						
42_49	A15	Villa Lucca (Previous PA2)	838170	835836	24	24	24	24				

Result Summary (Cumulative Annual FSP) (Year 2024)

PATH Grid	ASR ID	Location	X	Y	Annual FSP Concentration at various height (ug/m3)							
					1.5	5	10	15	20	30	40	
42_48	A1	Fortune Garden	838428	835480	15	15	15					
42_49	A2	Casa Marina I	838128	835914	15	15	15	15				
42_49	A3	Village House at 53 Ting Kok Road	837717	835867	17	17	16					
42_49	A4	Tai Po East Fire Station	837690	835818	17	17	17	17				
42_49	A5	Meyer Aluminum Limited	837652	835647	17	17	17	18				
42_48	A6	Watson's Water Centre	837654	835492	16	16	16	16	16			
42_48	A7	Hung Hing Printing Centre	837910	835141	17	17	16					
42_48	A8	Phoenix Television Coporation	837912	834785	15	15	15					
42_49	A9	Casa Brava	837585	835882	17	16	16					
42_49	A10	Casa Marina II	837910	836207	15	15	15	15				
42_49	A11	Tycoon Place	838478	835747	15	15	15	15	15			
42_49	A12	Hong Kong Landfill Restoration Group Limited	837752	835743	17	17	17					
42_49	A13	EPD Site Office	837775	835772	17	17						
42_49	A14	Lai Wah Garden Company Limited	837772	835855	16	16						
42_49	A15	Villa Lucca (Previous PA2)	838170	835836	15	15	15	15				

Result Summary (Cumulative Highest 1-hour TSP) (Year 2025)

PATH Grid	ASR ID	Location	X	Y	Highest 1-hour TSP Concentration at various height (ug/m3)							
					1.5	5	10	15	20	30	40	
42_48	A1	Fortune Garden	838428	835480	346	350	350					
42_49	A2	Casa Marina I	838128	835914	173	166	147	120				
42_49	A3	Village House at 53 Ting Kok Road	837717	835867	204	206	205					
42_49	A4	Tai Po East Fire Station	837690	835818	204	205	206	201				
42_49	A5	Meyer Aluminum Limited	837652	835647	262	262	255	226				
42_48	A6	Watson's Water Centre	837654	835492	379	288	209	202	190			
42_48	A7	Hung Hing Printing Centre	837910	835141	257	250	241					
42_48	A8	Phoenix Television Coporation	837912	834785	181	183	182					
42_49	A9	Casa Brava	837585	835882	180	181	181					
42_49	A10	Casa Marina II	837910	836207	159	151	134	117				
42_49	A11	Tycoon Place	838478	835747	180	171	159	145	130			
42_49	A12	Hong Kong Landfill Restoration Group Limited	837752	835743	345	306	243					
42_49	A13	EPD Site Office	837775	835772	265	256						
42_49	A14	Lai Wah Garden Company Limited	837772	835855	217	220						
42_49	A15	Villa Lucca (Previous PA2)	838170	835836	192	183	157	122				

Result Summary (Cumulative 10th Highest 24-hour RSP) (Year 2025)

PATH Grid	ASR ID	Location	X	Y	10th Highest 24-hour RSP Concentration at various height (ug/m3)							
					1.5	5	10	15	20	30	40	
42_48	A1	Fortune Garden	838428	835480	62	62	61					
42_49	A2	Casa Marina I	838128	835914	59	59	59	59				
42_49	A3	Village House at 53 Ting Kok Road	837717	835867	61	61	60					
42_49	A4	Tai Po East Fire Station	837690	835818	61	61	61	61				
42_49	A5	Meyer Aluminum Limited	837652	835647	67	67	66	70				
42_48	A6	Watson's Water Centre	837654	835492	86	77	71	69	67			
42_48	A7	Hung Hing Printing Centre	837910	835141	75	73	71					
42_48	A8	Phoenix Television Coporation	837912	834785	62	61	61					
42_49	A9	Casa Brava	837585	835882	61	61	60					
42_49	A10	Casa Marina II	837910	836207	59	59	59	59				
42_49	A11	Tycoon Place	838478	835747	59	59	59	59	59			
42_49	A12	Hong Kong Landfill Restoration Group Limited	837752	835743	68	67	64					
42_49	A13	EPD Site Office	837775	835772	68	66						
42_49	A14	Lai Wah Garden Company Limited	837772	835855	60	60						
42_49	A15	Villa Lucca (Previous PA2)	838170	835836	59	59	59	59				

Result Summary (Cumulative Annual RSP) (Year 2025)

PATH Grid	ASR ID	Location	X	Y	Annual RSP Concentration at various height (ug/m3)							
					1.5	5	10	15	20	30	40	
42_48	A1	Fortune Garden	838428	835480	26	26	26					
42_49	A2	Casa Marina I	838128	835914	23	23	23	23				
42_49	A3	Village House at 53 Ting Kok Road	837717	835867	25	25	25					
42_49	A4	Tai Po East Fire Station	837690	835818	26	26	26	26				
42_49	A5	Meyer Aluminum Limited	837652	835647	28	28	28	29				
42_48	A6	Watson's Water Centre	837654	835492	45	38	34	32	31			
42_48	A7	Hung Hing Printing Centre	837910	835141	37	36	35					
42_48	A8	Phoenix Television Coporation	837912	834785	28	28	28					
42_49	A9	Casa Brava	837585	835882	25	25	25					
42_49	A10	Casa Marina II	837910	836207	23	23	23	23				
42_49	A11	Tycoon Place	838478	835747	23	23	23	23	23			
42_49	A12	Hong Kong Landfill Restoration Group Limited	837752	835743	29	29	28					
42_49	A13	EPD Site Office	837775	835772	29	29						
42_49	A14	Lai Wah Garden Company Limited	837772	835855	25	25						
42_49	A15	Villa Lucca (Previous PA2)	838170	835836	23	23	23	23				

Result Summary (Cumulative 36th Highest 24-hour FSP) (Year 2025)

PATH Grid	ASR ID	Location	X	Y	36th Highest 24-hour FSP Concentration at various height (ug/m3)						
					1.5	5	10	15	20	30	40
42_48	A1	Fortune Garden	838428	835480	30	29	29				
42_49	A2	Casa Marina I	838128	835914	30	30	30	30			
42_49	A3	Village House at 53 Ting Kok Road	837717	835867	31	31	31				
42_49	A4	Tai Po East Fire Station	837690	835818	31	31	31	31			
42_49	A5	Meyer Aluminum Limited	837652	835647	31	31	32	32			
42_48	A6	Watson's Water Centre	837654	835492	33	32	31	31	30		
42_48	A7	Hung Hing Printing Centre	837910	835141	30	30	30				
42_48	A8	Phoenix Television Coporation	837912	834785	30	30	30				
42_49	A9	Casa Brava	837585	835882	31	31	31				
42_49	A10	Casa Marina II	837910	836207	30	30	30	30			
42_49	A11	Tycoon Place	838478	835747	30	30	30	30	30		
42_49	A12	Hong Kong Landfill Restoration Group Limited	837752	835743	32	32	32				
42_49	A13	EPD Site Office	837775	835772	32	32					
42_49	A14	Lai Wah Garden Company Limited	837772	835855	31	31					
42_49	A15	Villa Lucca (Previous PA2)	838170	835836	30	30	30	30			

Result Summary (Cumulative Annual FSP) (Year 2025)

PATH Grid	ASR ID	Location	X	Y	Annual FSP Concentration at various height (ug/m3)							
					1.5	5	10	15	20	30	40	
42_48	A1	Fortune Garden	838428	835480	14	14	14					
42_49	A2	Casa Marina I	838128	835914	14	14	14	14				
42_49	A3	Village House at 53 Ting Kok Road	837717	835867	15	15	15					
42_49	A4	Tai Po East Fire Station	837690	835818	16	16	15	16				
42_49	A5	Meyer Aluminum Limited	837652	835647	15	15	16	17				
42_48	A6	Watson's Water Centre	837654	835492	17	16	15	15	15			
42_48	A7	Hung Hing Printing Centre	837910	835141	16	16	15					
42_48	A8	Phoenix Television Coporation	837912	834785	14	14	14					
42_49	A9	Casa Brava	837585	835882	15	15	15					
42_49	A10	Casa Marina II	837910	836207	14	14	14	14				
42_49	A11	Tycoon Place	838478	835747	14	14	14	14	14			
42_49	A12	Hong Kong Landfill Restoration Group Limited	837752	835743	16	16	16					
42_49	A13	EPD Site Office	837775	835772	16	16						
42_49	A14	Lai Wah Garden Company Limited	837772	835855	15	15						
42_49	A15	Villa Lucca (Previous PA2)	838170	835836	14	14	14	14				

Result Summary (Cumulative Highest 1-hour TSP) (Year 2026)

PATH Grid	ASR ID	Location	X	Y	Highest 1-hour TSP Concentration at various height (ug/m3)							
					1.5	5	10	15	20	30	40	
42_48	A1	Fortune Garden	838428	835480	128	132	132					
42_49	A2	Casa Marina I	838128	835914	103	103	103	103				
42_49	A3	Village House at 53 Ting Kok Road	837717	835867	123	123	122					
42_49	A4	Tai Po East Fire Station	837690	835818	129	129	128	127				
42_49	A5	Meyer Aluminum Limited	837652	835647	118	118	118	168				
42_48	A6	Watson's Water Centre	837654	835492	293	203	122	118	114			
42_48	A7	Hung Hing Printing Centre	837910	835141	144	142	136					
42_48	A8	Phoenix Television Coporation	837912	834785	121	120	119					
42_49	A9	Casa Brava	837585	835882	121	120	119					
42_49	A10	Casa Marina II	837910	836207	102	102	102	102				
42_49	A11	Tycoon Place	838478	835747	104	104	104	104	104			
42_49	A12	Hong Kong Landfill Restoration Group Limited	837752	835743	206	206	203					
42_49	A13	EPD Site Office	837775	835772	162	164						
42_49	A14	Lai Wah Garden Company Limited	837772	835855	119	119						
42_49	A15	Villa Lucca (Previous PA2)	838170	835836	107	106	103	103				

Result Summary (Cumulative 10th Highest 24-hour RSP) (Year 2026)

PATH Grid	ASR ID	Location	X	Y	10th Highest 24-hour RSP Concentration at various height (ug/m3)							
					1.5	5	10	15	20	30	40	
42_48	A1	Fortune Garden	838428	835480	59	59	58					
42_49	A2	Casa Marina I	838128	835914	59	59	59	59				
42_49	A3	Village House at 53 Ting Kok Road	837717	835867	60	60	59					
42_49	A4	Tai Po East Fire Station	837690	835818	60	60	60	60				
42_49	A5	Meyer Aluminum Limited	837652	835647	60	60	63	65				
42_48	A6	Watson's Water Centre	837654	835492	77	68	63	61	59			
42_48	A7	Hung Hing Printing Centre	837910	835141	58	58	57					
42_48	A8	Phoenix Television Coporation	837912	834785	58	58	58					
42_49	A9	Casa Brava	837585	835882	60	60	60					
42_49	A10	Casa Marina II	837910	836207	59	59	59	59				
42_49	A11	Tycoon Place	838478	835747	59	59	59	59	59			
42_49	A12	Hong Kong Landfill Restoration Group Limited	837752	835743	61	60	60					
42_49	A13	EPD Site Office	837775	835772	60	60						
42_49	A14	Lai Wah Garden Company Limited	837772	835855	59	59						
42_49	A15	Villa Lucca (Previous PA2)	838170	835836	59	59	59	59				

Result Summary (Cumulative Annual RSP) (Year 2026)

PATH Grid	ASR ID	Location	X	Y	Annual RSP Concentration at various height (ug/m3)							
					1.5	5	10	15	20	30	40	
42_48	A1	Fortune Garden	838428	835480	23	23	23					
42_49	A2	Casa Marina I	838128	835914	22	22	22	22				
42_49	A3	Village House at 53 Ting Kok Road	837717	835867	24	24	24					
42_49	A4	Tai Po East Fire Station	837690	835818	24	24	24	24				
42_49	A5	Meyer Aluminum Limited	837652	835647	24	24	25	26				
42_48	A6	Watson's Water Centre	837654	835492	37	30	26	25	24			
42_48	A7	Hung Hing Printing Centre	837910	835141	24	24	24					
42_48	A8	Phoenix Television Coporation	837912	834785	24	24	24					
42_49	A9	Casa Brava	837585	835882	24	24	23					
42_49	A10	Casa Marina II	837910	836207	22	22	22	22				
42_49	A11	Tycoon Place	838478	835747	23	22	22	22	22			
42_49	A12	Hong Kong Landfill Restoration Group Limited	837752	835743	24	24	24					
42_49	A13	EPD Site Office	837775	835772	24	24						
42_49	A14	Lai Wah Garden Company Limited	837772	835855	24	24						
42_49	A15	Villa Lucca (Previous PA2)	838170	835836	22	22	22	22				

Result Summary (Cumulative 36th Highest 24-hour FSP) (Year 2026)

PATH Grid	ASR ID	Location	X	Y	36th Highest 24-hour FSP Concentration at various height (ug/m3)							
					1.5	5	10	15	20	30	40	
42_48	A1	Fortune Garden	838428	835480	29	29	29					
42_49	A2	Casa Marina I	838128	835914	30	30	30	30				
42_49	A3	Village House at 53 Ting Kok Road	837717	835867	31	31	31					
42_49	A4	Tai Po East Fire Station	837690	835818	31	31	31	31				
42_49	A5	Meyer Aluminum Limited	837652	835647	30	30	31	32				
42_48	A6	Watson's Water Centre	837654	835492	31	30	29	29	29			
42_48	A7	Hung Hing Printing Centre	837910	835141	29	29	29					
42_48	A8	Phoenix Television Coporation	837912	834785	28	28	28					
42_49	A9	Casa Brava	837585	835882	31	31	31					
42_49	A10	Casa Marina II	837910	836207	30	30	30	30				
42_49	A11	Tycoon Place	838478	835747	30	30	30	30	30			
42_49	A12	Hong Kong Landfill Restoration Group Limited	837752	835743	31	31	31					
42_49	A13	EPD Site Office	837775	835772	31	31						
42_49	A14	Lai Wah Garden Company Limited	837772	835855	31	31						
42_49	A15	Villa Lucca (Previous PA2)	838170	835836	30	30	30	30				

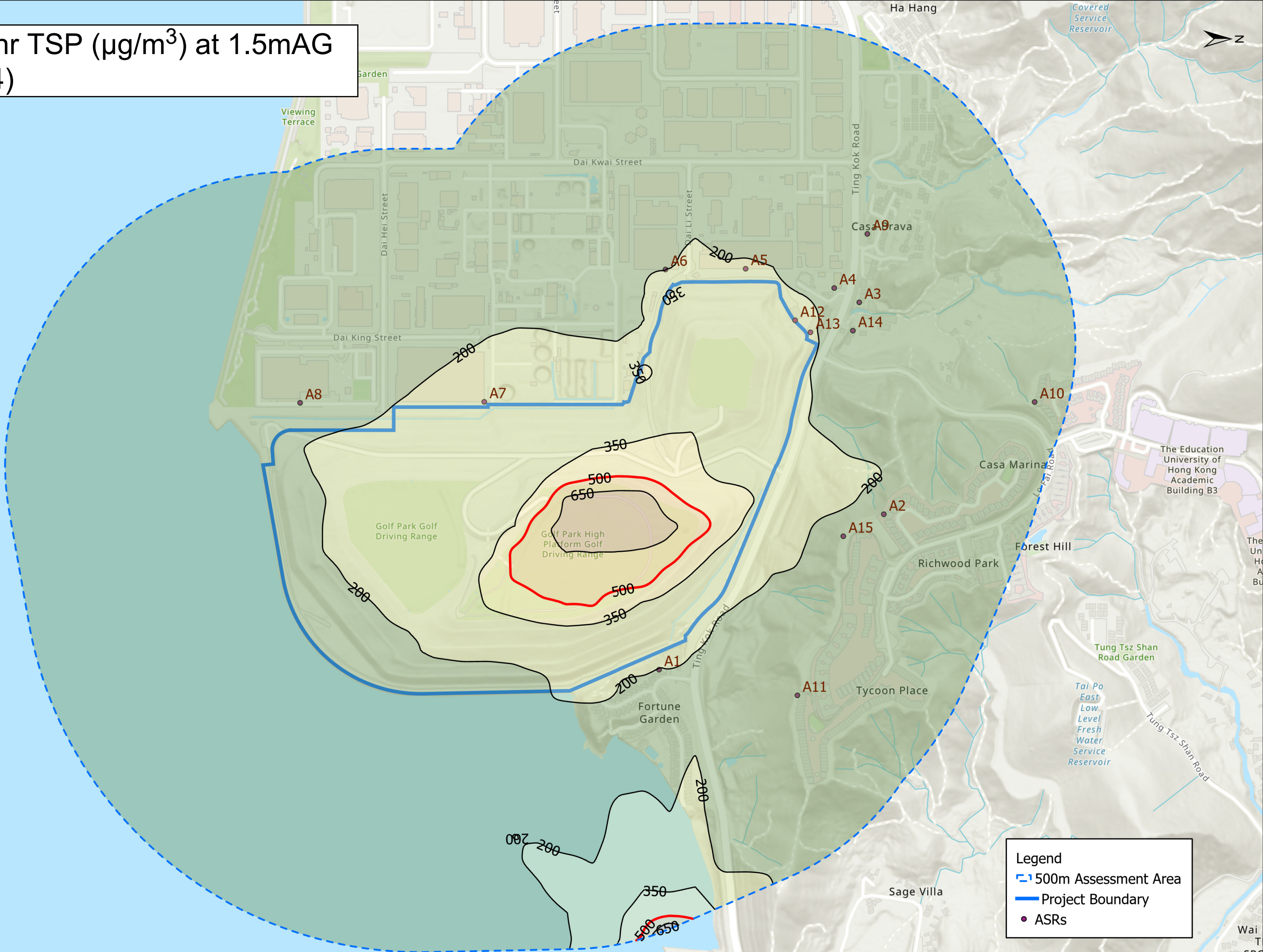
Result Summary (Cumulative Annual FSP) (Year 2026)

PATH Grid	ASR ID	Location	X	Y	Annual FSP Concentration at various height (ug/m3)							
					1.5	5	10	15	20	30	40	
42_48	A1	Fortune Garden	838428	835480	14	14	14					
42_49	A2	Casa Marina I	838128	835914	14	14	14	14				
42_49	A3	Village House at 53 Ting Kok Road	837717	835867	15	15	15					
42_49	A4	Tai Po East Fire Station	837690	835818	15	15	15	15				
42_49	A5	Meyer Aluminum Limited	837652	835647	15	15	15	16				
42_48	A6	Watson's Water Centre	837654	835492	16	15	14	14	14			
42_48	A7	Hung Hing Printing Centre	837910	835141	14	14	14					
42_48	A8	Phoenix Television Coporation	837912	834785	14	14	14					
42_49	A9	Casa Brava	837585	835882	15	15	15					
42_49	A10	Casa Marina II	837910	836207	14	14	14	14				
42_49	A11	Tycoon Place	838478	835747	14	14	14	14	14			
42_49	A12	Hong Kong Landfill Restoration Group Limited	837752	835743	15	15	15					
42_49	A13	EPD Site Office	837775	835772	15	15						
42_49	A14	Lai Wah Garden Company Limited	837772	835855	15	15						
42_49	A15	Villa Lucca (Previous PA2)	838170	835836	14	14	14	14				

Appendix 4.2

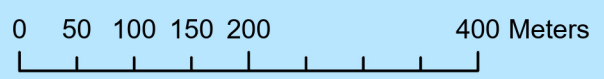
Contour Results

Highest 1-hr TSP ($\mu\text{g}/\text{m}^3$) at 1.5mAG (Year 2024)

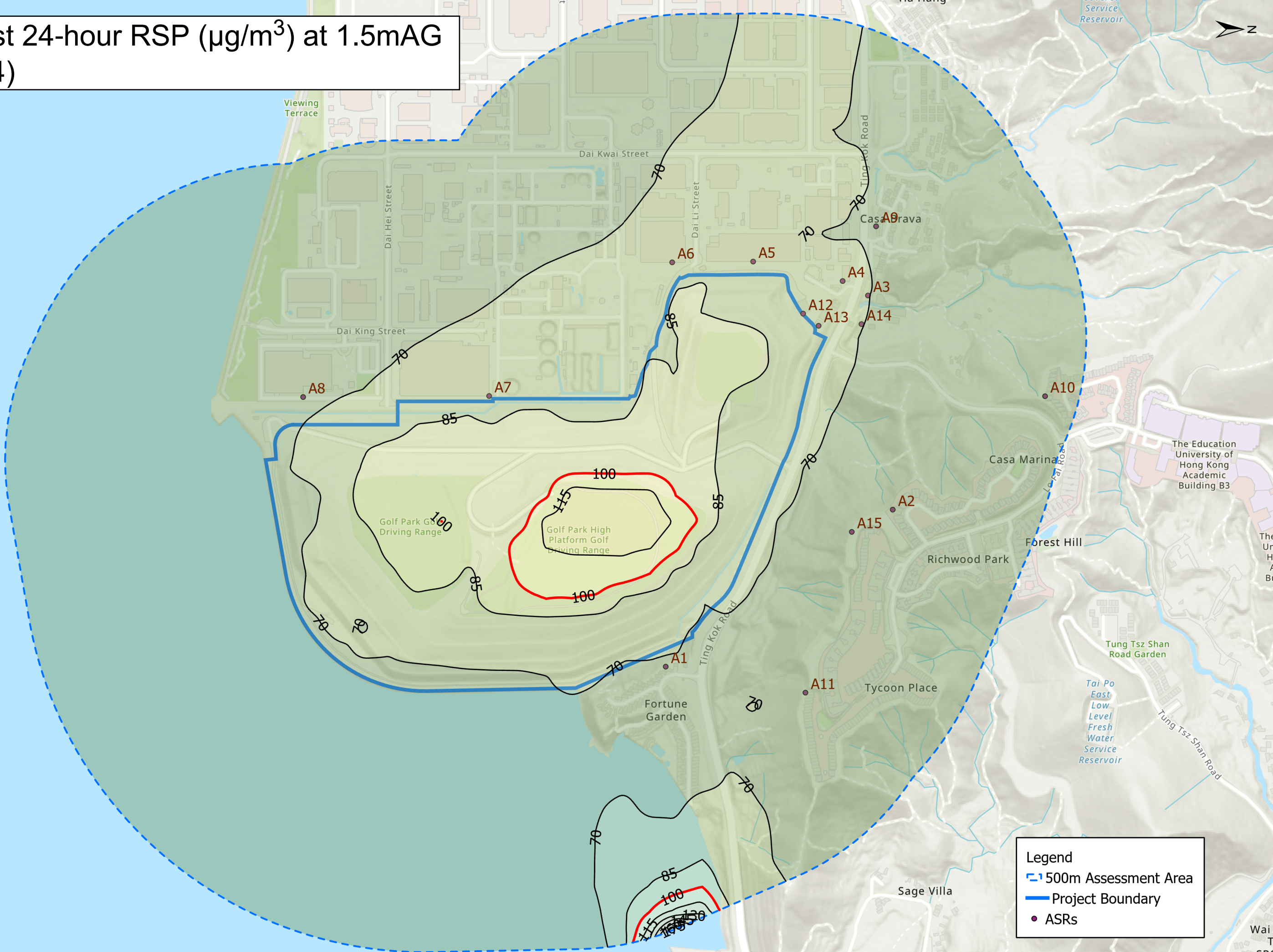


Legend

- - - 500m Assessment Area
- Project Boundary
- ASRs

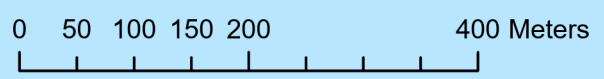


10th Highest 24-hour RSP ($\mu\text{g}/\text{m}^3$) at 1.5mAG (Year 2024)

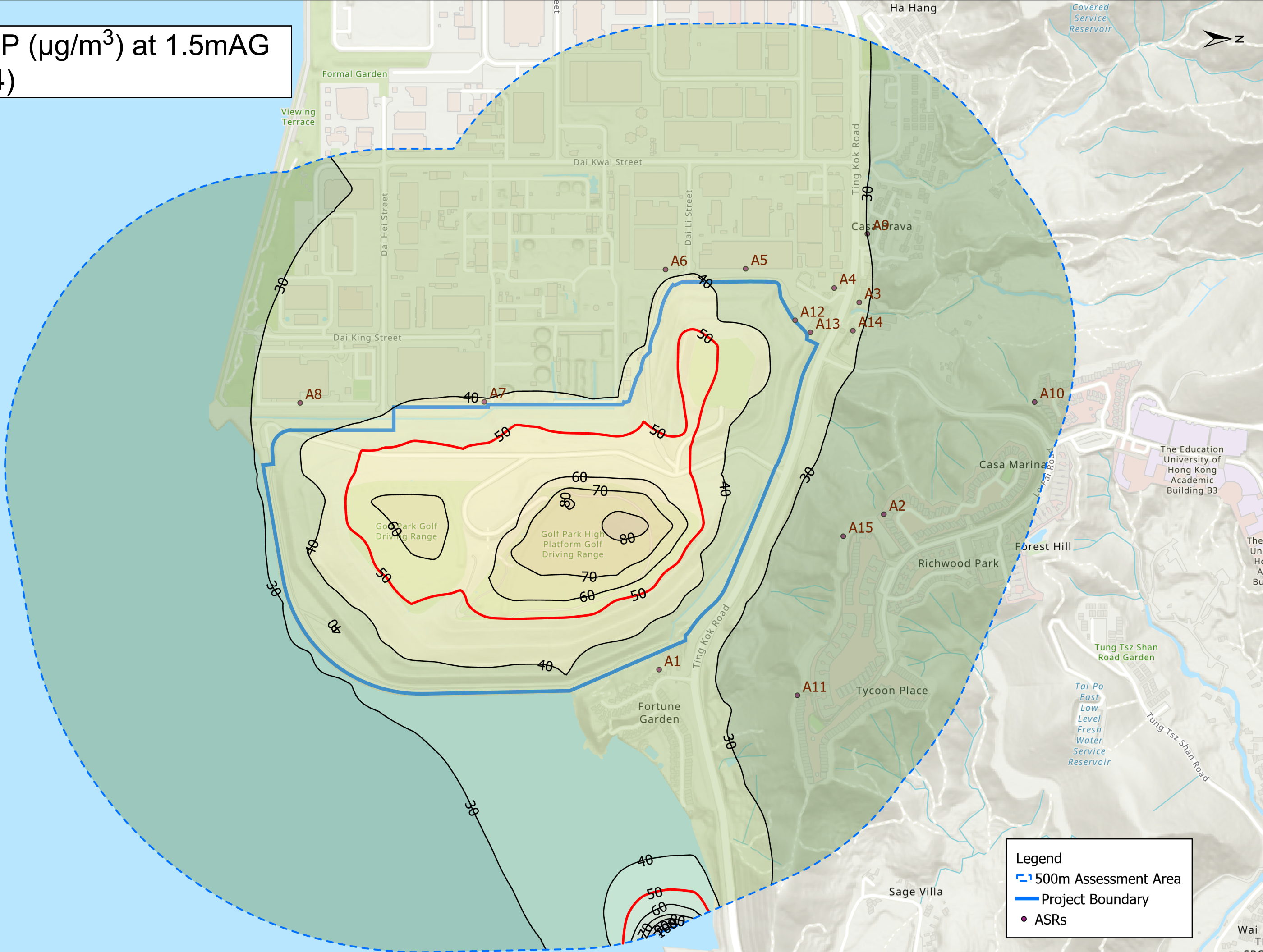


Legend

- - - 500m Assessment Area
- Project Boundary
- ASRs

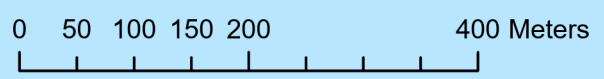


Annual RSP ($\mu\text{g}/\text{m}^3$) at 1.5mAG (Year 2024)

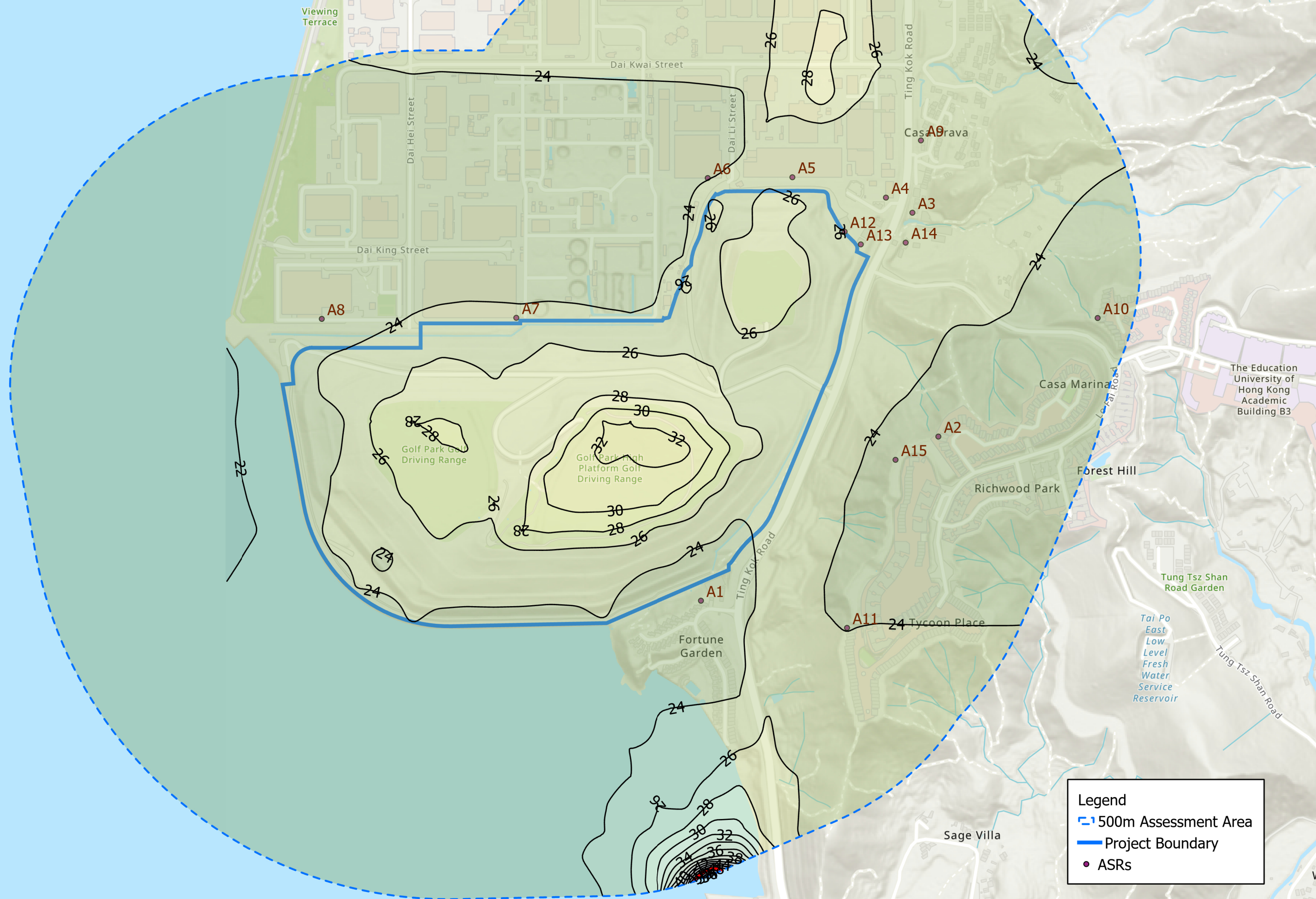


Legend

- 500m Assessment Area
- Project Boundary
- ASRs



36th Highest 24-hour FSP ($\mu\text{g}/\text{m}^3$) at 1.5mAG (Year 2024)



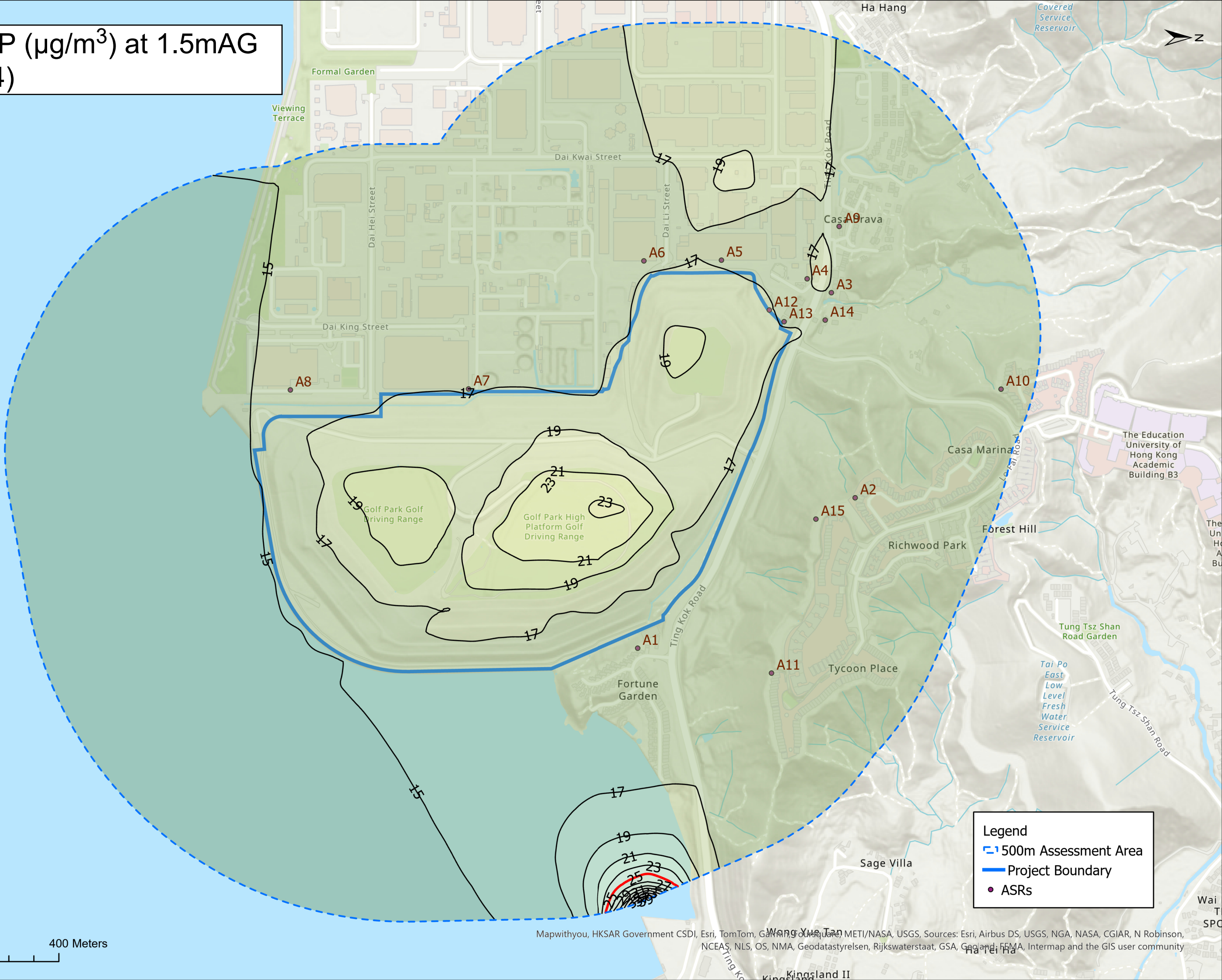
Legend

- - - 500m Assessment Area
- Project Boundary
- ASRs

0 50 100 150 200 400 Meters

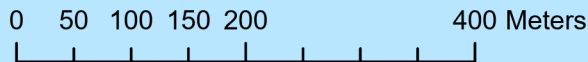
Mapwithyou, HKSAR Government CSDI, Esri, TomTom, Garmin, OpenStreetMap, METI/NASA, USGS, Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodastyrelsen, Rijkswaterstaat, GSA, Geogant, FEMA, Intermap and the GIS user community

Annual FSP ($\mu\text{g}/\text{m}^3$) at 1.5mAG (Year 2024)

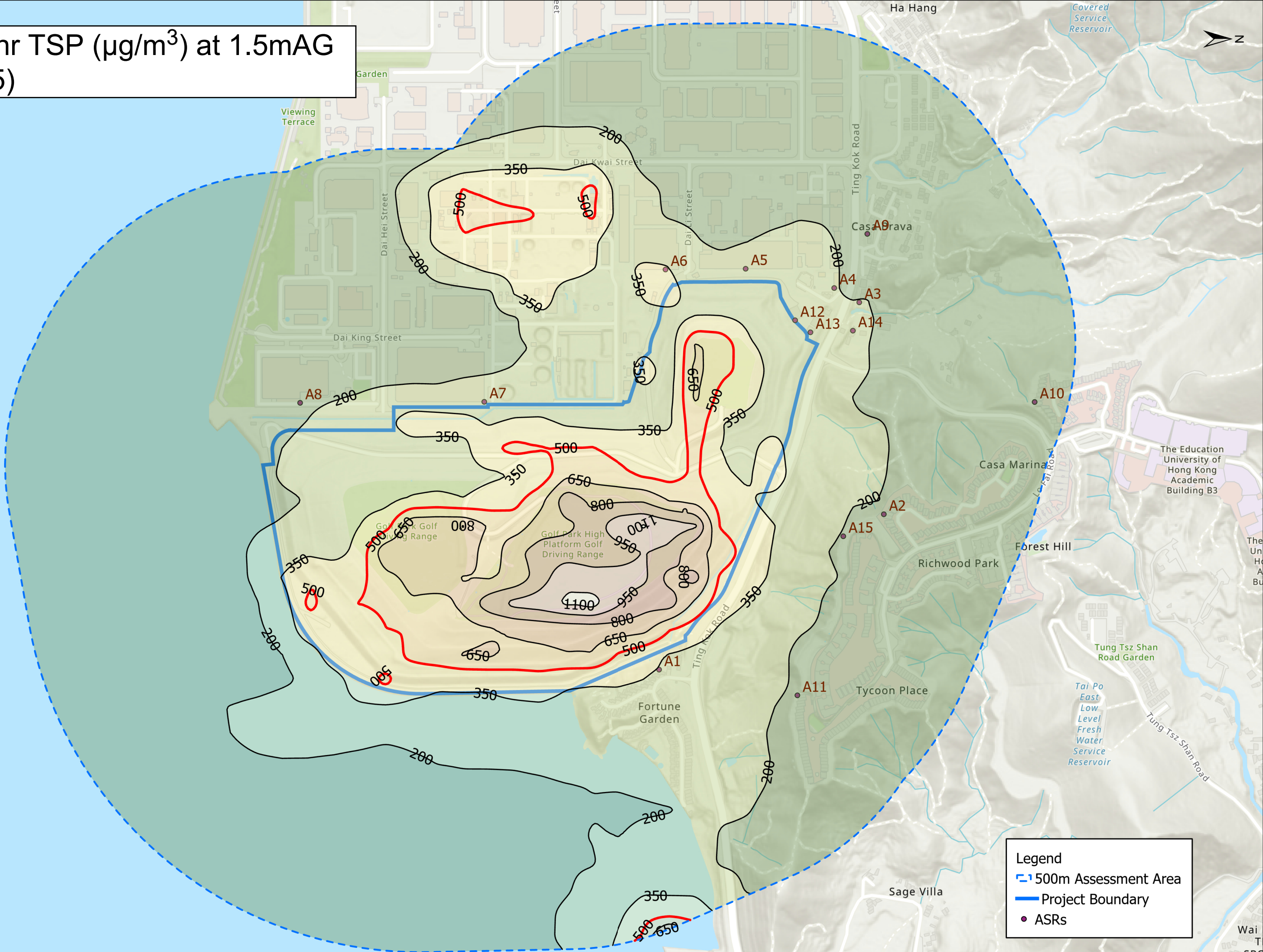


Legend

- ⬢ 500m Assessment Area
- ▬ Project Boundary
- ASRs

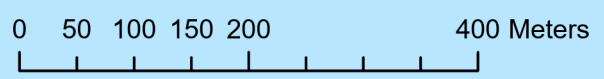


Highest 1-hr TSP ($\mu\text{g}/\text{m}^3$) at 1.5mAG (Year 2025)

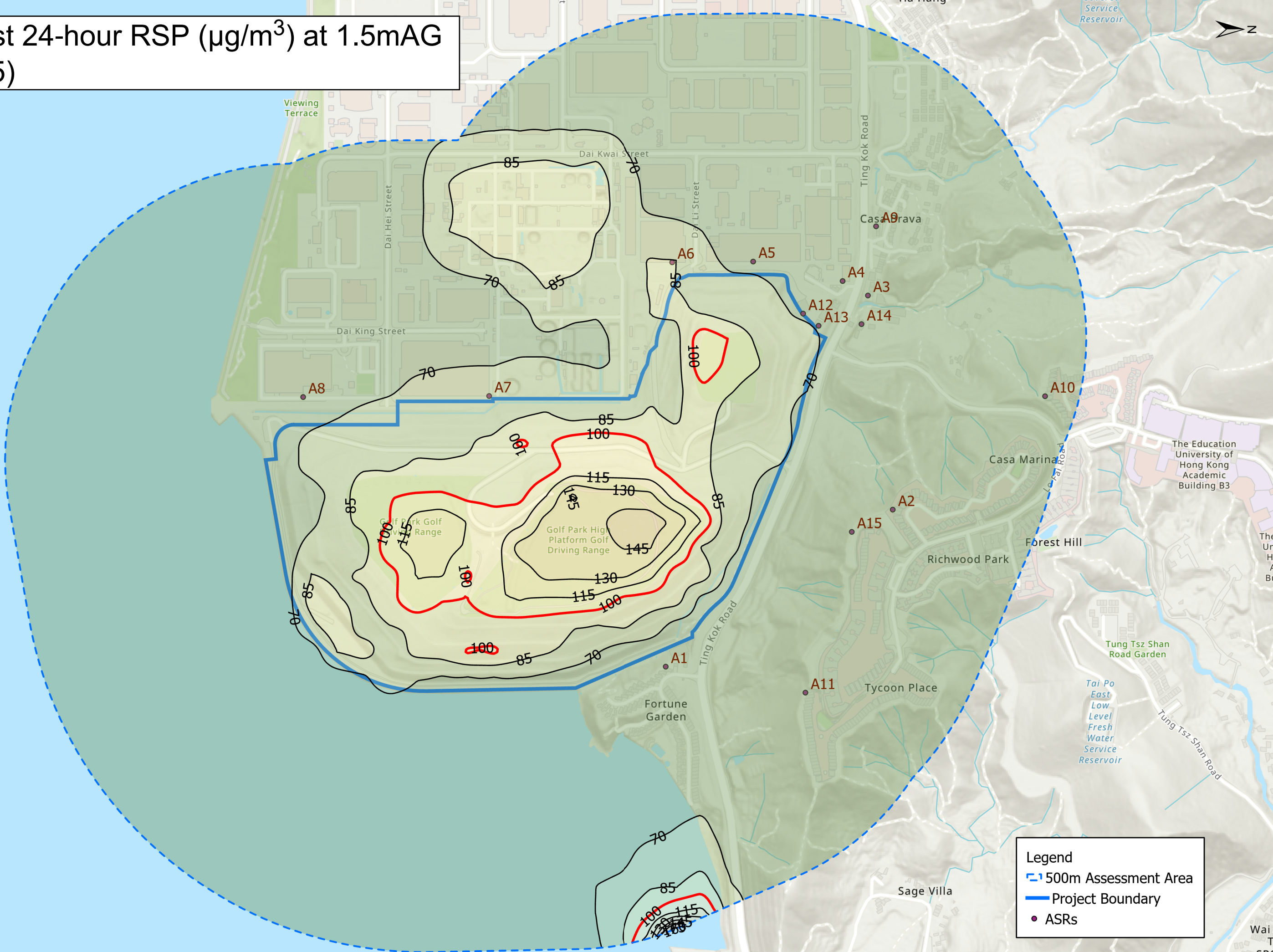


Legend

- - - 500m Assessment Area
- Project Boundary
- ASRs

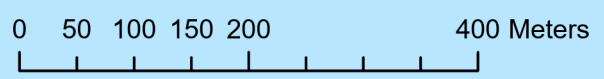


10th Highest 24-hour RSP ($\mu\text{g}/\text{m}^3$) at 1.5mAG (Year 2025)



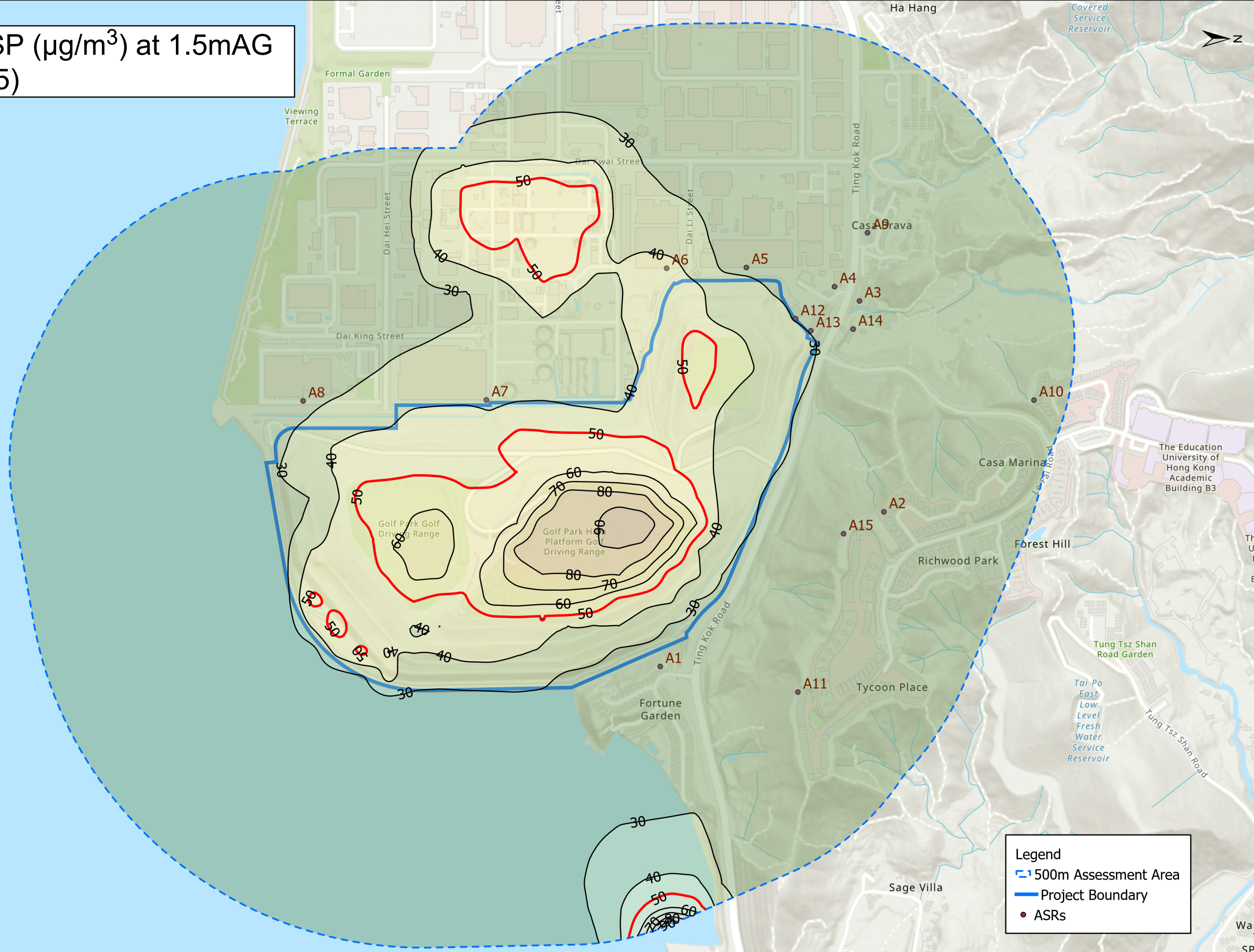
Legend

- - - 500m Assessment Area
- Project Boundary
- ASRs



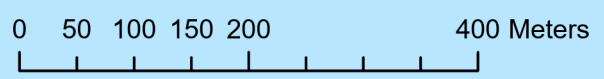
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Annual RSP ($\mu\text{g}/\text{m}^3$) at 1.5mAG (Year 2025)



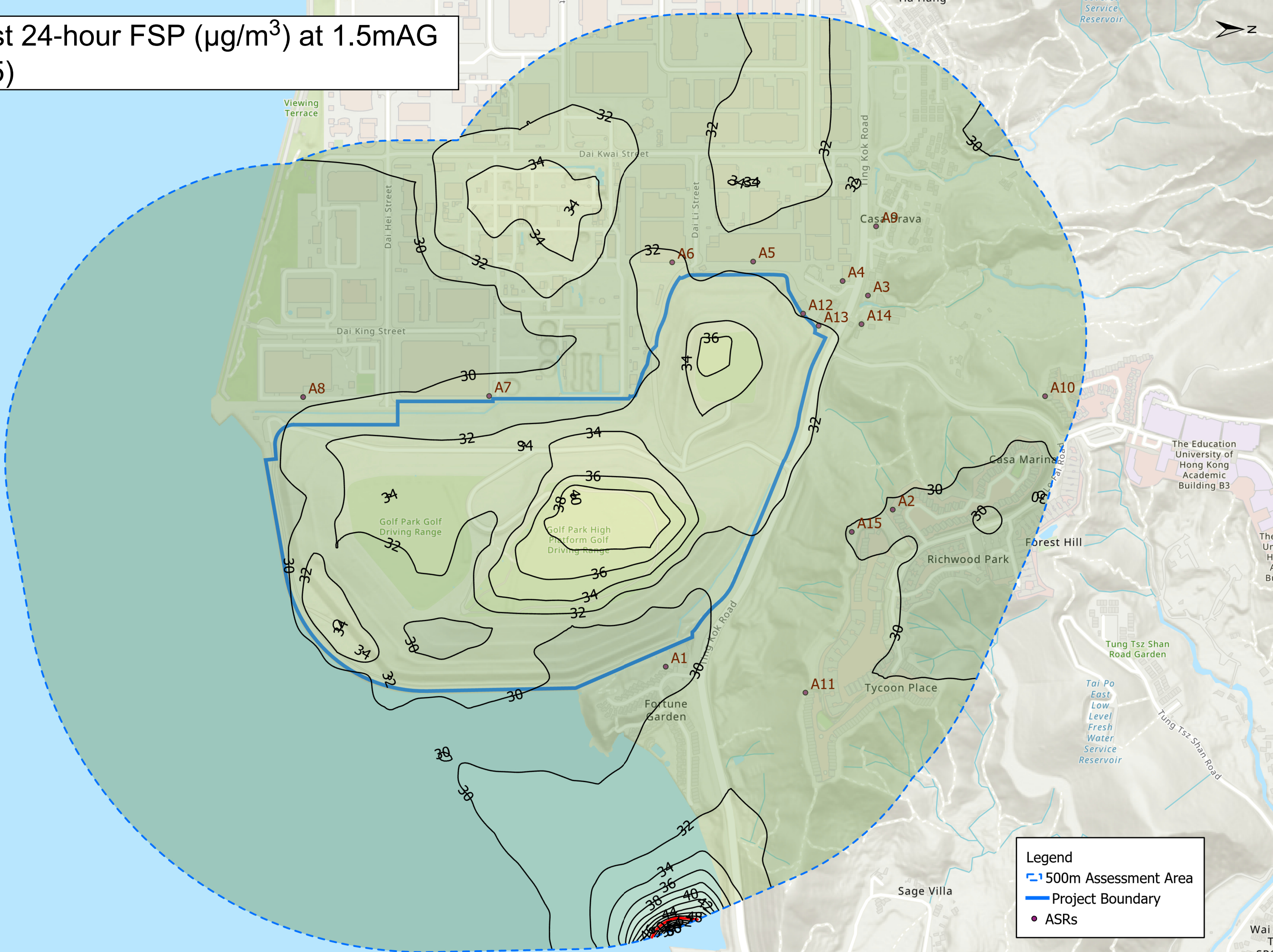
Legend

- - - 500m Assessment Area
- Project Boundary
- ASRs



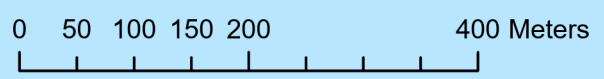
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36th Highest 24-hour FSP ($\mu\text{g}/\text{m}^3$) at 1.5mAG (Year 2025)

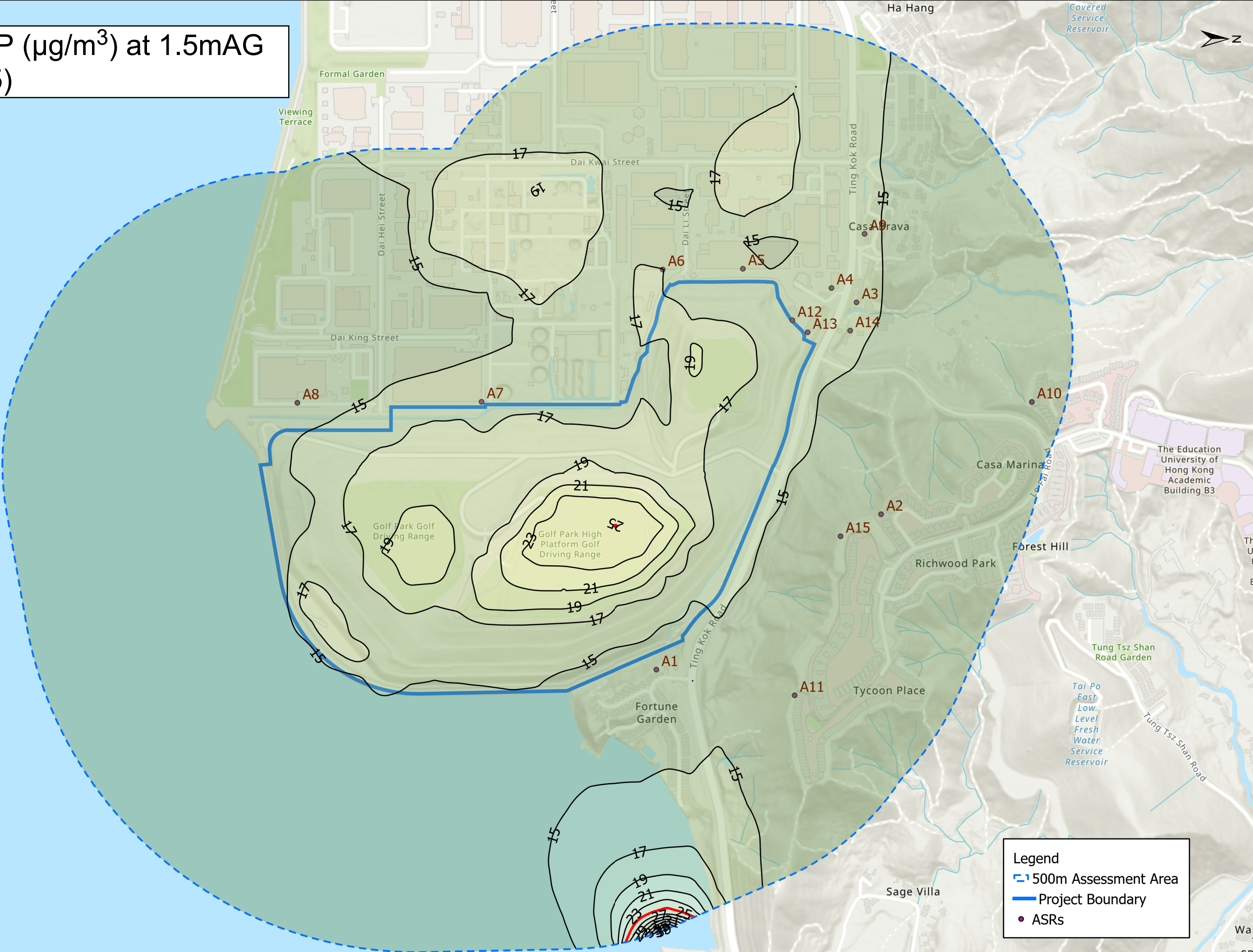


Legend

- 500m Assessment Area
- Project Boundary
- ASRs

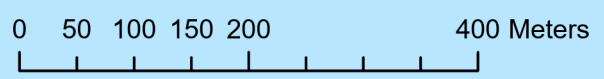


Annual FSP ($\mu\text{g}/\text{m}^3$) at 1.5mAG (Year 2025)

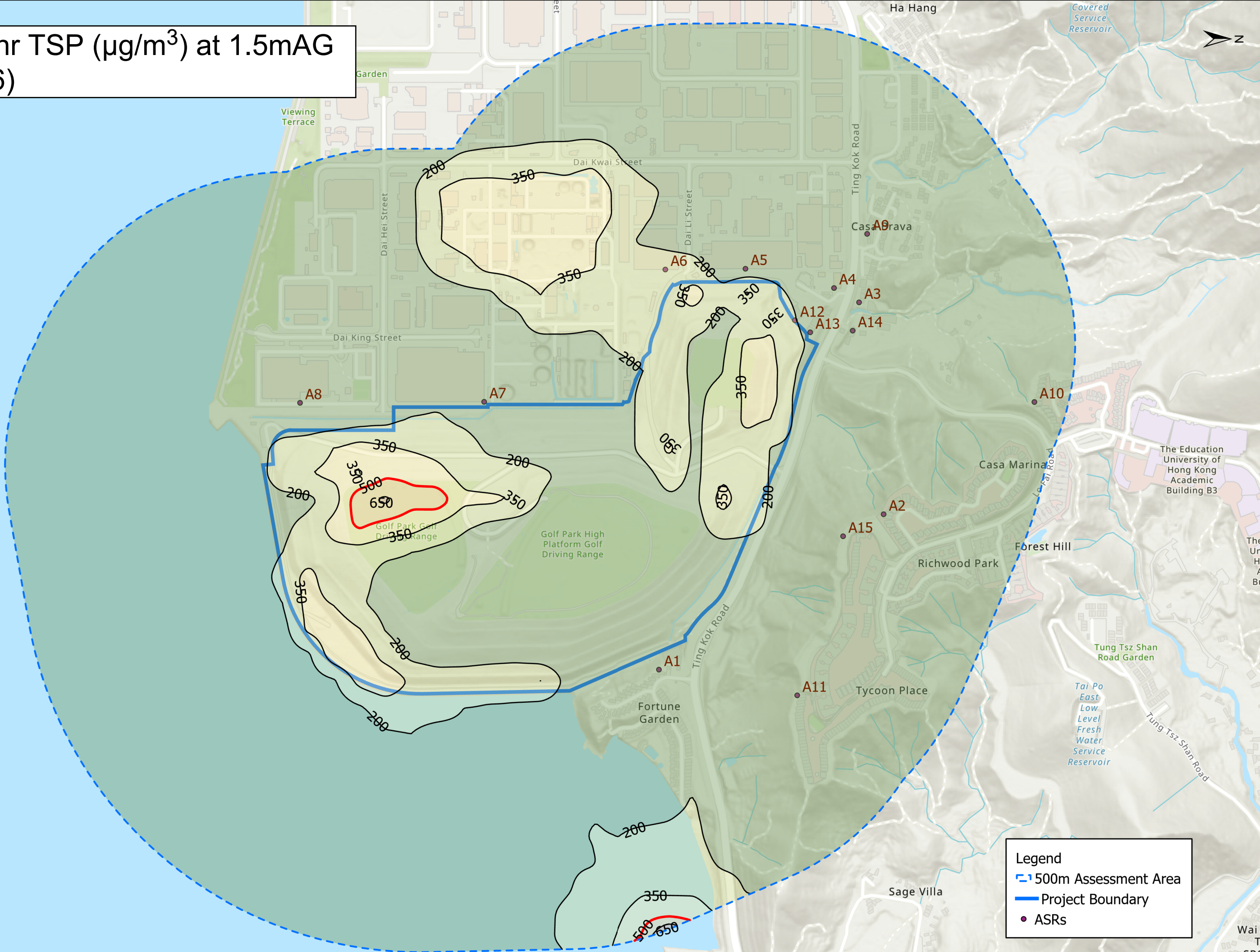


Legend

- ⬢ 500m Assessment Area
- Project Boundary
- ASRs

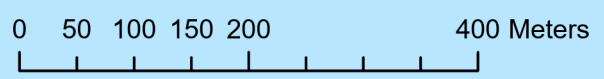


Highest 1-hr TSP ($\mu\text{g}/\text{m}^3$) at 1.5mAG (Year 2026)



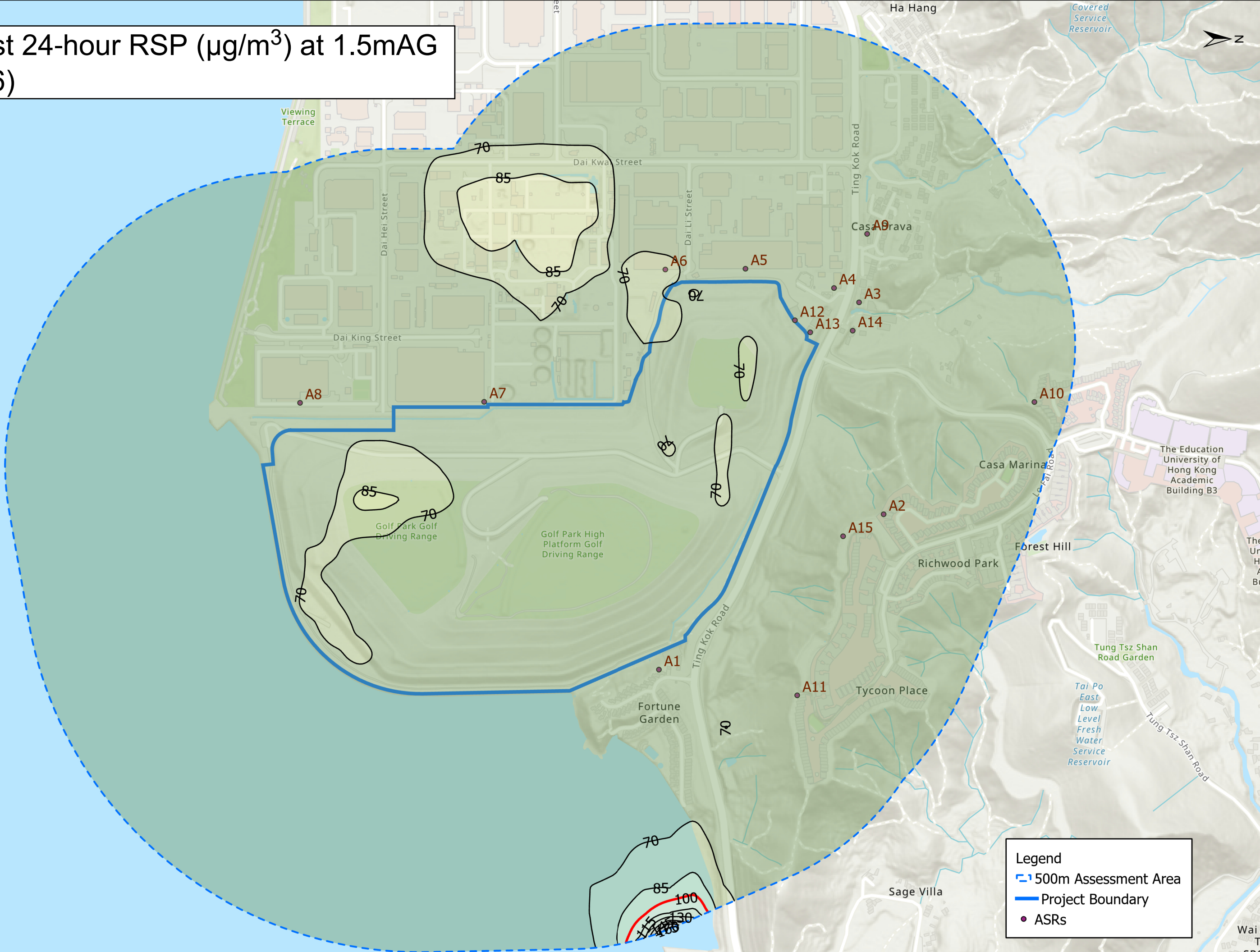
Legend

- - - 500m Assessment Area
- Project Boundary
- ASRs



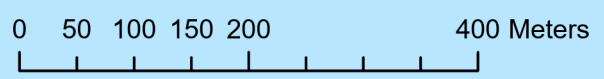
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10th Highest 24-hour RSP ($\mu\text{g}/\text{m}^3$) at 1.5mAG (Year 2026)



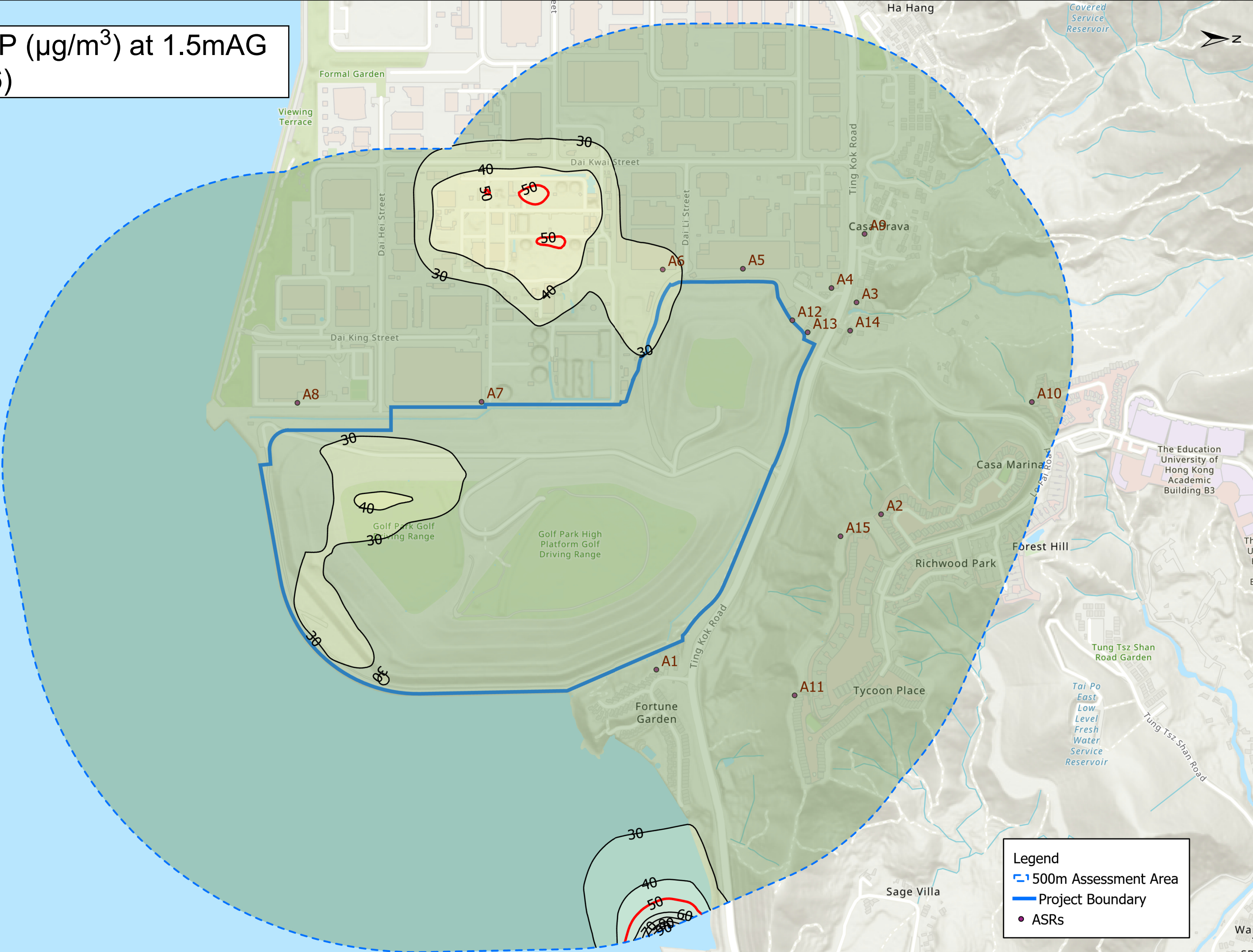
Legend

- 500m Assessment Area
- Project Boundary
- ASRs



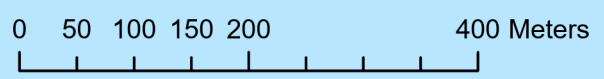
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Annual RSP ($\mu\text{g}/\text{m}^3$) at 1.5mAG (Year 2026)



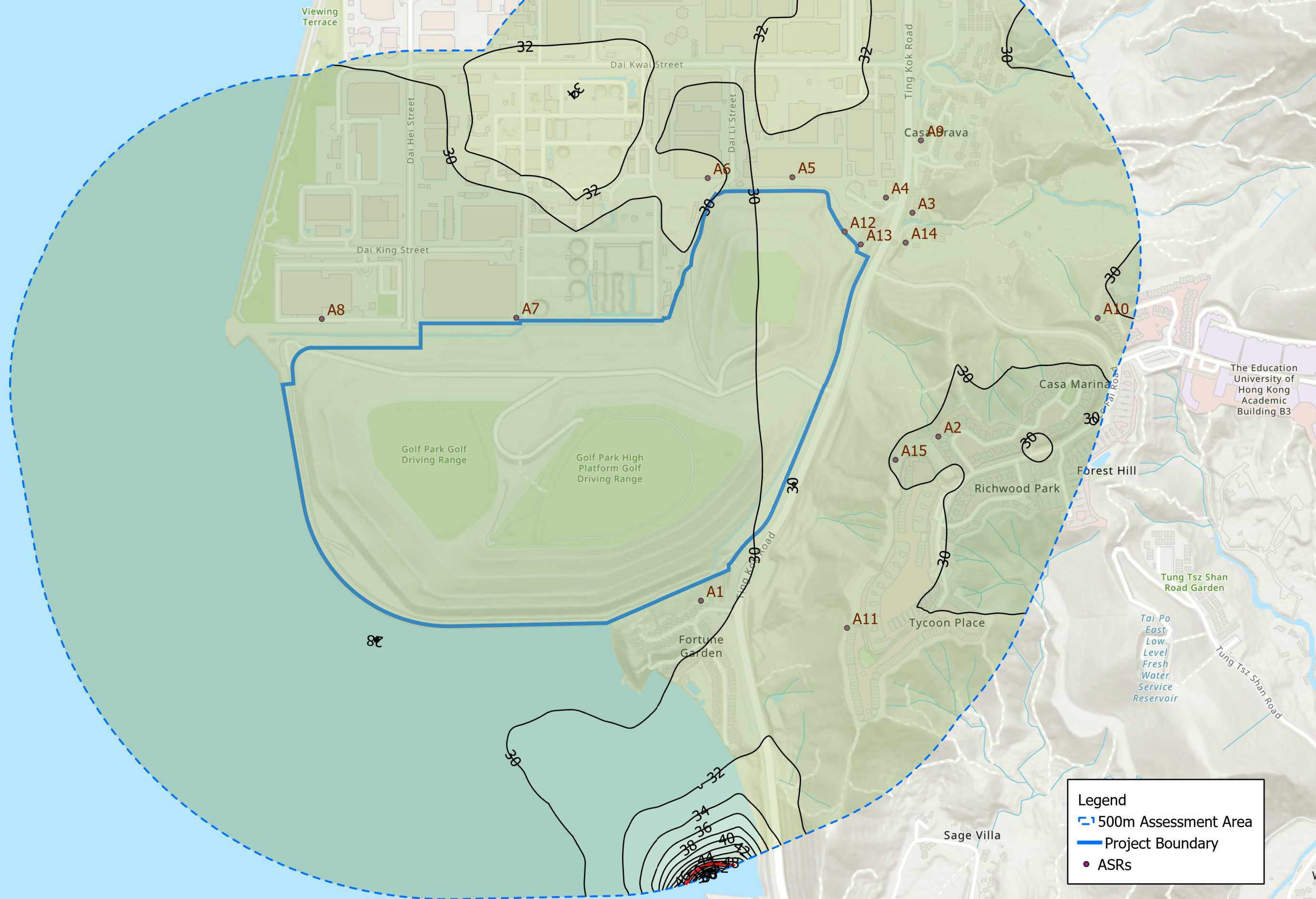
Legend

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- Project Boundary
- ASRs



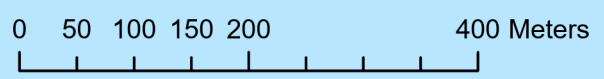
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36th Highest 24-hour FSP ($\mu\text{g}/\text{m}^3$) at 1.5mAG (Year 2026)



Legend

- - - 500m Assessment Area
- Project Boundary
- ASRs



Annual FSP ($\mu\text{g}/\text{m}^3$) at 1.5mAG (Year 2026)

