

Civil Engineering and Development  
Department

Operation of Tuen Mun Fill Bank  
at Tuen Mun Area 38 from 2019  
to 2023

*First Annual Air Quality Impact  
Assessment Review*

May 2019

**Environmental Resources Management**

2507, 25/F One Harbourfront

18 Tak Fung Street

Hung Hom, Kowloon

Hong Kong

Telephone: (852) 2271 3000

Facsimile: (852) 2723 5660

E-mail: [post.hk@erm.com](mailto:post.hk@erm.com)

<http://www.erm.com>


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### *First Annual Air Quality Impact Assessment Review*

May 2019

Reference 0499746

For and on behalf of ERM-Hong Kong, Limited	
Approved by:	Frank Wan
Signed:	
Position:	Partner
Date:	8 May 2019

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## CONTENTS

<b>1</b>	<b>INTRODUCTION</b>	<b>1</b>
<b>1.1</b>	<b>BACKGROUND</b>	<b>1</b>
<b>2</b>	<b>TMFB OPERATION AND ADJACENT DEVELOPMENTS</b>	<b>2</b>
<b>2.1</b>	<b>REVIEW OF TMFB OPERATION</b>	<b>2</b>
<b>2.2</b>	<b>PROJECTS IN TUEN MUN AREA 38 AND IN THE PROXIMITY</b>	<b>3</b>
<b>3</b>	<b>AIR QUALITY IMPACT ASSESSMENT</b>	<b>4</b>
<b>3.1</b>	<b>INTRODUCTION</b>	<b>4</b>
<b>3.2</b>	<b>LEGISLATIVE REQUIREMENT AND EVALUATION CRITERIA</b>	<b>4</b>
<b>3.3</b>	<b>BASELINE CONDITIONS</b>	<b>5</b>
<b>3.4</b>	<b>AIR SENSITIVE RECEIVERS</b>	<b>6</b>
<b>3.5</b>	<b>POTENTIAL SOURCES OF AIR EMISSIONS</b>	<b>7</b>
<b>3.6</b>	<b>ASSESSMENT METHODOLOGY AND ASSUMPTIONS</b>	<b>8</b>
<b>3.7</b>	<b>AIR QUALITY MITIGATION MEASURES</b>	<b>16</b>
<b>3.8</b>	<b>EVALUATION OF IMPACTS</b>	<b>18</b>
<b>3.9</b>	<b>EM&amp;A REQUIREMENTS</b>	<b>20</b>
<b>4</b>	<b>CONCLUSIONS</b>	<b>21</b>

## ANNEXES

<i>Annex A1</i>	<i>Emission Inventory and Detailed Emission Rate Calculations for Sources Associated with TMFB Operation (Except Vehicular Emissions)</i>
<i>Annex A2</i>	<i>Emission Inventory of Adjacent Industrial Emission Sources</i>
<i>Annex A3</i>	<i>Vehicular Emissions from External and Internal Roads</i>
<i>Annex A4</i>	<i>Calculations of Land Use Parameters</i>
<i>Annex A5</i>	<i>Predicted Cumulative Pollutant Concentrations at ASRs</i>
<i>Annex A6</i>	<i>Letter from Transport Department</i>

# 1 INTRODUCTION

## 1.1 BACKGROUND

In accordance with requirements in Condition 3.28 of the current EP, an air quality impact assessment (AQIA) review is required to be carried out annually during the extended operation (i.e. 2019 to 2023) of Tuen Mun Fill Bank (TMFB) to demonstrate compliance of the prevailing Air Quality Objectives (AQOs), taking into account the latest operational conditions of TMFB as well as potential changes to emissions of adjacent industrial sources, if any. Additional mitigation measures associated with the TMFB operation, if required, will be recommended in order to achieve compliance of the AQOs.

ERM-Hong Kong, Ltd (ERM) has been commissioned by Civil Engineering and Development Department (CEDD) to prepare the first *Annual AQIA Review Report*. The assessment covers the operation period from June 2019 to May 2020 (hereafter referred to as the “Review Period”).



## 2.1 REVIEW OF TMFB OPERATION

According to current operation and assumptions in the Environmental Review Report for the Application for Variation of Environmental Permit (VEP) in 2018 (hereafter referred to as “the 2018 ER Report”), export of fill materials by marine transportation via barging points B1 and B2 as well as associated truck movements are carried out within 07:00-23:00 hrs on a daily basis. To further facilitate the effective clearance of the stockpiled materials at the TMFB, CEDD proposes to extend the period of fill material export at barging points B1 and B2 and its associated truck movements from 16 hours (i.e. 07:00-23:00 hrs) to 24 hours. In addition, following the commencement of operation trial of the Construction and Demolition Material Sorting Facility (referred to as “NSA”), the NSA processing capacity assumed in the 2018 ER Report has been slightly reduced to reflect the actual productivity rate during operation. The abovementioned proposed changes have been considered in this assessment for the Review Period. Other activities associated with the TMFB operation remain essentially the same as those assumed in the 2018 ER Report. Key aspects of the TMFB operation conditions are summarised in *Table 2.1*. Locations of key facilities within TMFB are illustrated in *Figure 2.1*.

**Table 2.1 Key Aspects of TMFB Operation Conditions**

Key Item	Current Operation Conditions / Assumptions in 2018 ER Report	Operation Conditions (June 2019 to May 2020)
Stockpiling Capacity	• 4.2 million m <sup>3</sup>	• 4.2 million m <sup>3</sup>
Maximum stockpiling height	• 40mPD	• 40mPD
Operating hours for reception of public fill delivered by trucks	• From 08:30 hrs to 19:00 hrs, daily (close during Chinese New Year and public holidays)	• From 08:30 hrs to 19:00 hrs, daily (close during Chinese New Year and public holidays)
Nos. of incoming truck trips (public fill delivered by road)	• 1,300 truck loads/ day	• 1,300 truck loads/ day
Material to be handled at the berthing area (intake and export)	<ul style="list-style-type: none"> <li>• 29,400 tonnes/day (07:00-23:00 hrs)</li> <li>• 6,500 tonnes/night (23:00-07:00 hrs of the next day)</li> </ul>	<ul style="list-style-type: none"> <li>• 28,152 tonnes/day (07:00-23:00 hrs)</li> <li>• 12,076 tonnes/night (23:00-07:00 hrs of the next day)</li> </ul>
NSA	<ul style="list-style-type: none"> <li>• 10,400 tonnes/day (07:00-23:00 hrs)</li> <li>• 6,500 tonnes/night (23:00-07:00 hrs of the next day)</li> </ul>	<ul style="list-style-type: none"> <li>• 9,152 tonnes/ day (07:00-23:00 hrs)</li> <li>• 4,576 tonnes/night (23:00-07:00 hrs of the next day)</li> </ul>

## 2.2 *PROJECTS IN TUEN MUN AREA 38 AND IN THE PROXIMITY*

### 2.2.1 *Construction & Demolition Materials Sorting Facility (C&DMSF)*

The processing capacity of the existing C&DMSF in the vicinity of TMFB will remain the same as the current capacity of 700 tonnes/day, for the purpose to estimate the dust emission rates associated with truck movements, materials handling and other applicable activities.

### 2.2.2 *Future Development in Tuen Mun Areas 40 and 46*

CEDD and PlanD have jointly commissioned a consultancy study viz. Agreement No. 20/2012 (TP) – Planning and Engineering Study for Tuen Mun Areas 40 and 46 and Adjoining Areas. The study area boundary also covers a portion of Tuen Mun Area 38 including the existing fill bank. Upon checking with CEDD and PlanD, such consultancy has been commenced in 2013 and is still ongoing. The proposed landuses in Tuen Mun Areas 40 and 46 and the implementation programme of the proposed landuses/development will be determined in the consultancy. According to the latest Report of the Task Force on Land Supply <sup>(1)</sup> and Policy Address in 2018, the development of Tuen Mun West (including Tuen Mun Areas 40 and 46) would require further planning review and is therefore uncertain at this stage. The completion year of the development is expected to be beyond 2023. No information can be referenced at the time of preparation of this *Review Report*. As this future development is not expected to commence within the Review Period, it has not been considered in this assessment.

### 2.2.3 *Planned Logistic Development in Tuen Mun Area 49*

A proposed logistics development situated in Tuen Mun Area 49 has been approved by the Town Planning Board. The development includes a Cargo Handling and Forwarding Facility with ancillary offices. The subject site was awarded to Goodman Group on 2 May 2018. The construction of the proposed logistics development is expected to be completed by 31 December 2023 according to the Gazette Note G.N. 1748 of the Lands Department published on 29 March 2018.

### 2.2.4 *Potential Logistic Development in Tuen Mun Area 38*

A logistic development would potentially be constructed in Tuen Mun Area 38 as part of the future Tuen Mun West development. The construction and implementation programme of the development is currently under review. No information can be referenced at the time of preparation of this *Review Report*. As this future development is not expected to commence within the Review Period, it has not been considered in this assessment.

(1) Striving for Multi-pronged Land Supply – Report of the Task Force on Land Supply, December 2018

### 3.1 INTRODUCTION

This *Section* presents the review and assessment of the potential air quality impact associated with the TMFB operation and other industrial sources in the vicinity of TMFB for the upcoming 1 year (i.e. June 2019 to May 2020).

### 3.2 LEGISLATIVE REQUIREMENT AND EVALUATION CRITERIA

The principal legislation for the management of air quality in Hong Kong is the *Air Pollution Control Ordinance* (APCO) (Cap. 311). Under the APCO, the *Hong Kong Air Quality Objectives* (AQOs) (see *Table 3.1*) stipulate the statutory limits for air pollutants and the maximum allowable numbers of exceedances over specific periods.

**Table 3.1** *Hong Kong Air Quality Objectives*

Air Pollutant	Averaging Time	Concentration ( $\mu\text{g m}^{-3}$ ) <sup>(a)</sup>	No. of Exceedances Allowed per Year
Sulphur Dioxide (SO <sub>2</sub> )	10 minute	500	3
	24-hours	125	3
Respirable Suspended Particulates (RSP) <sup>(b)</sup>	24-hours	100	9
	Annual	50	-
Fine Suspended Particulates (FSP) <sup>(c)</sup>	24-hours	75	9
	Annual	35	-
Nitrogen Dioxide (NO <sub>2</sub> )	1-hour	200	18
	Annual	40	-
Carbon Monoxide (CO)	1-hour	30,000	0
	8-hour	10,000	0
Ozone (O <sub>3</sub> )	8-hour	160	9
Lead	Annual	0.5	-

**Notes:**

(a) Measured at 293K and 101.325 kPa.

(b) Suspended particles in air with a nominal aerodynamic diameter of 10  $\mu\text{m}$  or less

(c) Suspended particles in air with a nominal aerodynamic diameter of 2.5  $\mu\text{m}$  or less

The *Technical Memorandum on the Environmental Impact Assessment Process* (EIAO-TM) issued under the *EIAO* states that the hourly concentration of Total Suspended Particulates (TSP) should not exceed 500  $\mu\text{g m}^{-3}$  (measured at 25 °C and 1 atmosphere) at Air Sensitive Receivers (ASRs) for dust impact assessment. The *Air Pollution Control (Construction Dust) Regulation* also recommends dust control measures for dust generating activities. Requirements stipulated in the *Air Pollution Control (Non-road Mobile*

*Machinery (Emission) Regulation* will also be followed to control potential emissions from non-road mobile machinery within TMFB.

### 3.3 BASELINE CONDITIONS

The Study Area is defined as 500m from the TMFB site boundary as shown in *Figure 3.1*. A number of industrial sites are located to the west of TMFB within the Study Area, including Green Island Cement (GIC), Shiu Wing Steel Mill (SWSM), EcoPark and Permanent Aviation Fuel Facility (PAFF). The local air quality of the Project Site area is primarily influenced by vehicular emissions from local road networks, emissions associated with the operation of the TMFB as well as stack emissions from the aforementioned industrial sites.

#### 3.3.1 EPD's Air Quality Monitoring Station

The nearest EPD's Air Quality Monitoring Station (AQMS) is located in Tuen Mun. The concentrations of RSP, FSP, NO<sub>2</sub> and SO<sub>2</sub> recorded at this AQMS in the past 5 years (2013 - 2017) are presented in *Table 3.2*.

**Table 3.2 Concentrations of Air Pollutants Measured at the EPD's Tuen Mun AQMS in the Past 5 Years (2013 - 2017)**

Year	Concentrations of Pollutants ( $\mu\text{g m}^{-3}$ )							
	19 <sup>th</sup> highest 1- hr NO <sub>2</sub>	Annual NO <sub>2</sub>	4 <sup>th</sup> highest 24-hr SO <sub>2</sub>	4 <sup>th</sup> highest 10-min SO <sub>2</sub>	10 <sup>th</sup> highest 24-hr RSP	Annual RSP	10 <sup>th</sup> highest 24-hr FSP	Annual FSP
2013 <sup>(a)</sup>	--	--	--	--	--	--	--	--
2014	184	53 <sup>(b)</sup>	33	128	125 <sup>(c)</sup>	47	83 <sup>(d)</sup>	30
2015	184	48 <sup>(b)</sup>	27	90	110 <sup>(c)</sup>	45	76 <sup>(d)</sup>	30
2016	167	51 <sup>(b)</sup>	28	75	103 <sup>(c)</sup>	44	63	27
2017	188	46 <sup>(b)</sup>	26	88	99	43	65	27
<b>Prevailing AQOs</b>	<b>200</b>	<b>40</b>	<b>125</b>	<b>500</b>	<b>100</b>	<b>50</b>	<b>75</b>	<b>35</b>

**Notes:**

- (a) Tuen Mun AQMS in operation since 2014.
- (b) Exceedance of annual average NO<sub>2</sub> criterion.
- (c) Exceedance of 24-hour average RSP criterion.
- (d) Exceedance of 24-hour average FSP criterion.

No measurement was conducted at the Tuen Mun AQMS in 2013. The annual average NO<sub>2</sub> concentrations exceeded the relevant AQO criterion for the past four years (2014-2017). Exceedances of 24-hour average RSP criterion were recorded from 2014 to 2016, while exceedances of 24-hour average FSP were recorded in 2014 and 2015.

It should be noted that the Tuen Mun AQMS is situated in the urbanised area of Tuen Mun and more than 4km away from the Project site. Given the differences in land use and the considerable separation distance, the

monitoring data recorded at Tuen Mun AQMS may not be representative of the current baseline air quality at the Project site.

### 3.3.2 *CLP Power Hong Kong Limited (CLP)'s Air Quality Monitoring Station at Lung Kwu Tan*

The concentrations of NO<sub>2</sub> and SO<sub>2</sub> recorded at CLP's AQMS at Lung Kwu Tan in the past 5 years (2013 – 2017) are presented in *Table 3.3*.

**Table 3.3** *Concentrations of Air Pollutants Measured at CLP's Lung Kwu Tan AQMS in the Past Five Years (2013 - 2017)*

Year	Concentrations of Pollutants (µg m <sup>-3</sup> )			
	19 <sup>th</sup> highest 1-hour NO <sub>2</sub>	Annual NO <sub>2</sub>	4 <sup>th</sup> highest 24-hour SO <sub>2</sub>	4 <sup>th</sup> highest 10-min SO <sub>2</sub> <sup>(a)</sup>
2013	149	28	34	-
2014	149	27	24	131
2015	125	23	18	100
2016	131	24	33	163
2017	160	25	31	157
<b>Prevailing AQOs</b>	<b>200</b>	<b>40</b>	<b>125</b>	<b>500</b>

The measured 1-hour average NO<sub>2</sub>, annual NO<sub>2</sub>, 10-minute SO<sub>2</sub> and 24-hour SO<sub>2</sub> in the past 5 years comply with the respective criteria.

CLP's AQMS is located at Lung Kwu Tan which is a relatively remote area approximately 2.5km from the Project site. The environment in Lung Kwu Tan and the Project site is relatively similar as compared to the Tuen Mun AQMS. The monitoring data recorded at the CLP's AQMS may provide a better indication of the current baseline air quality at the Project site.

### 3.4 *AIR SENSITIVE RECEIVERS*

A number of representative existing ASRs as well as planned ASRs that may exist during the Review Period have been identified within the Study Area and they are listed in *Table 3.4*. The locations of the identified representative ASRs are shown in *Figure 3.1*.

**Table 3.4 Identified Representative ASRs**

ASR	Description	Type of Use <sup>(a)</sup>	Approx Separation Distance from the Site Boundary (m)	Approx Base Elevation (m)	Approx Max. Height (m above ground)
A3	EcoPark Tenant: WEEE	Industrial	30	5	4.5
A4	EcoPark Tenant: South China	Industrial	25	5	4.5
A5	EcoPark Tenant: Chung Yue	Industrial	20	5	4.5
A9	EcoPark Administration Building	Industrial	255	6	4.5
A10	PAFF Office	Industrial	465	5	4.5
A11 <sup>(a)</sup>	Proposed Modern Logistics Development at TM Area 49	Industrial	70	10	10

**Note:**  
(a) Planned ASR that may be present within the Review Period.

**3.5 POTENTIAL SOURCES OF AIR EMISSIONS**

**3.5.1 Air Emission Sources Associated with TMFB Operation**

The potential key air emission sources within TMFB were identified as below:

- Dust emissions from the TMFB operational activities including fill material handling at stockpiling areas and barging points, operation of material sorting facilities, truck movements on major haul roads, as well as wind erosion from stockpiling areas;
- Vehicular emissions from internal roads within TMFB (incoming trucks and internal trucks);
- Emissions from marine vessels (e.g. barges, derrick lighter, tugboat) during berthing and maneuvering for exporting and importing fill materials; and
- Emissions from diesel generators for the operation of NSA.

**3.5.2 Air Emission Sources in the Vicinity of TMFB**

Other potential key air emission sources within the Study Area include:

- Stack emissions from adjacent industrial sites including GIC, SWSM and EcoPark;
- Vehicular emissions from external roads within 500m of the Study Area; and
- Emissions from the existing C&DMSF and marine vessels during berthing and maneuvering for material transport at the berth next to C&DMSF.

As discussed in *Section 2.2.3*, the planned logistics development at Tuen Mun Area 49 has been awarded and its construction and operation may commence during the Review Period. The construction of the planned logistics development at Tuen Mun Area 49 will not involve large-scale excavation works and thus potential dust impacts during the construction are expected to be minimal. Industrial emissions could be involved during the operation of the logistics development depending on the actual industrial operations but such information is not available at the time of preparation of this *Review Report*. Potential induced traffic arising from the logistics development is expected to be minor and has been considered in the traffic forecast. Therefore, adverse concurrent air quality impact during the construction and operation of the logistics development is not expected.

### **3.5.3** *Key Air Pollutants of Interest*

The operation of TMFB primarily involves a number of activities including fill material handling, truck movements on haul roads as well as operation of sorting facilities, which may potentially give rise to dust impact at nearby ASRs. Operation of marine vessels, truck movements and generators may also contribute gaseous emissions. Therefore, TSP, RSP, FSP, NO<sub>2</sub> and SO<sub>2</sub> were identified to be the key air pollutants of interest associated with the TMFB operation and they have been assessed quantitatively.

## **3.6** *ASSESSMENT METHODOLOGY AND ASSUMPTIONS*

### **3.6.1** *Dust Emissions from TMFB Operational Activities*

The dust emission sources associated with TMFB operational activities include fill material handling (loading/unloading at stockpiling areas and barging points), truck movements on haul roads and wind erosion from stockpiling areas. The locations of the aforementioned dust emission sources are illustrated in *Figure 3.2*. The TSP, RSP and FSP emission rates were estimated based on published documents and references such as *Compilation of Air Pollutant Emission Factors, AP-42, 5th Edition* by the United States Environmental Protection Agency (USEPA). Air quality mitigation measures as recommended in the 2018 ER Report and the latest EP-210/2005/C will continue to be implemented. These mitigation measures are presented in *Section 3.7* and have been considered in the assessment. The detailed TSP, RSP and FSP emission rate calculations, assumptions and emission inventory of these dust emission sources are provided in *Annex A1*.

### **3.6.2** *Emissions from Marine Vessels and Diesel Generators*

Berthing and maneuvering emissions from marine vessels (i.e. barges, derrick lighter, tugboat) for exporting and importing fill materials, as well as emissions from diesel generators associated with the operation of NSA and the existing C&DMSF may give rise to RSP, FSP, NO<sub>2</sub> and SO<sub>2</sub> impacts. There are a total of 5 barging points at TMFB where three barging points will be used for exporting public fill while two barging points are used to receive incoming public fill. The amount of incoming public fill via marine route is

minimal as most of the incoming public fill arrives at TMFB by trucks. In addition, the berth next to the existing C&DMSF may be used as a barging point for transport of bridge segment for the proposed Development of Kwu Tung North and Fanling North Project during the operation of TMFB and the associated berthing and maneuvering emissions have been considered in the assessment. The locations of the barging points and the diesel generators of the C&DMSFs are shown in *Figure 3.2*. The detailed RSP, FSP, NO<sub>2</sub> and SO<sub>2</sub> emission rate calculations, assumptions and emission inventory are provided in *Annex A1*.

### **3.6.3 Vehicular Emissions from Internal and External Roads**

NO<sub>2</sub>, RSP and FSP emissions arising from TMFB internal road traffic (incoming trucks and internal trucks) and other external road traffic within the Study Area will contribute to the overall air quality impacts and thus have been considered in the quantitative assessment. As presented in the 2018 ER Report, vehicular emissions within the Study Area were predicted to be the highest in 2019 during the extended operation of TMFB (i.e. 2019 to 2023) and thus projected traffic flows for the identified external roads in 2019 were adopted in this assessment. Traffic information for internal and external roads adopted in this assessment is detailed in *Annex A3*. The traffic forecast has been endorsed by Transport Department and the approval letter is provided in *Annex A6*. In order to minimise the potential air quality impacts to EcoPark due to vehicular emissions from TMFB internal road traffic, the mitigation measures as recommended in the 2018 ER Report and as presented in *Section 3.7* would continue to be implemented and have been considered in this assessment. The internal road alignment and external roads within the Study Area are illustrated in *Figure 3.2* and *Figure 3.3*, respectively.

### **3.6.4 Other Major Industrial Emissions in the Vicinity of TMFB**

#### *GIC and SWSM*

Stack emissions from GIC and SWSM may contribute to the cumulative air quality impact and thus have been considered in the quantitative assessment. The locations of these emission sources are shown in *Figure 3.3* and the emission inventory for GIC and SWSM is provided in *Annex A2*.

#### *EcoPark*

Waste Reduction Group of EPD (WRG) has been consulted with regard to the tenant conditions and potential emissions within EcoPark during the Review Period. Four tenants, namely WEEE-Park, SSK Metal (waste batteries), K Wah and South China, would continue to operate within EcoPark with the same emissions as assumed in the 2018 ER Report. WRG advised that the proposed waste paper recycling facility at Lots P1, P5 and P6 & P7 that was considered in the 2018 ER Report will not commence operation within the Review Period. Waste plastics recycling are proposed at Lots T1 and T6, and a new biomass heating system may be installed at Lot T5 during the Review Period. Waste plastics recycling may give rise to PM emissions, while the



operation of the new biomass heating system may lead to combustion emissions including NO<sub>x</sub>, SO<sub>2</sub> and PM. As emission details at Lots T1, T5 and T6 are not yet available at this stage, a total of three cases of EcoPark emissions were assessed taking into account reasonably worst case emissions from the mentioned three lots for conservative assessment. The three cases of EcoPark emissions assessed are summarised in *Table 3.5*.

**Table 3.5** *Three Cases of EcoPark Emissions*

Emission Sources	Case 1			Case 2			Case 3		
	NO <sub>x</sub>	SO <sub>2</sub>	PM (b)	NO <sub>x</sub>	SO <sub>2</sub>	PM (b)	NO <sub>x</sub>	SO <sub>2</sub>	PM (b)
WEEE	✓	✓	✓	✓	✓	✓	✓	✓	✓
K Wah	-	-	✓	-	-	✓	-	-	✓
SSK Metal	✓	✓	✓	✓	✓	✓	✓	✓	✓
South China	✓	✓	✓	✓	✓	✓	✓	✓	✓
Lot T1	-	-	✓ (c)	-	-	-	-	-	-
Lot T6	-	-	-	-	-	✓ (d)	-	-	-
Lot T5	-	-	-	-	-	-	✓ (e)	✓ (e)	✓ (e)

**Notes:**

- (a) ✓ = emission assumed.
- (b) PM refers to both RSP and FSP.
- (c) All remaining EcoPark emission quota for PM was assigned to Lot T1 as a worst case assumption for Case 1.
- (d) All remaining EcoPark emission quota for PM was assigned to Lot T6 as a worst case assumption for Case 2.
- (e) For PM and SO<sub>2</sub>, all remaining EcoPark emission quotas were assigned to Lot T5 as a worst case assumption for Case 3, while the NO<sub>x</sub> emission was assumed to be a maximum of 2g/s as a reasonable assumption as advised by WRG. The actual emissions from Lot T5 will be further subject to process review/design audit.

The locations of the existing and potential emission sources within EcoPark are shown in *Figure 3.3* and the emission inventory is provided in *Annex A2*.

### 3.6.5 *Assumptions and Modelling Approach*

#### *Air Dispersion Model and Meteorological Data*

An EPD's recommended air dispersion model, AERMOD, was used to assess the potential air quality impact at the identified ASRs from dust emissions, marine emissions and industrial emissions. The quantitative assessment has been conducted following the latest EPD's *Guidelines for Local-scale Air Quality Assessment Using Model*.

The relevant PATH grids in which the identified ASRs are located have been identified. The predicted meteorological data for the relevant PATH grids were used for model input. The relevant PATH grids for the identified ASRs are shown in *Table 3.6*.

**Table 3.6 Relevant PATH Grids for the Representative ASRs**

ASR	Description	Relevant PATH Grid
A3	Eco Park Tenant: WEEE	16, 39
A4	EcoPark Tenant: South China	15, 38
A5	EcoPark Tenant: Chung Yue	15, 38
A9	EcoPark Administration Building	15, 39
A10	PAFF Office	15, 38
A11	Proposed Modern Logistics Development	16, 39

AERMET was run to generate AERMOD-ready meteorological data for AERMOD model input. The land use parameters, including albedo, bowen ratio and surface roughness are required inputs for AERMET. The land use of 1km from the identified ASRs within each PATH grid has been evaluated to determine the PATH-grid specific surface roughness values. The land uses of 10km x 10km from the Project Site have also been evaluated to determine the values of albedo and bowen ratio for the PATH grids. Detailed calculations of albedo, bowen ratio and surface roughness are presented in *Annex A4*. Land use maps illustrating the determination of the land use parameters are also shown in *Annex A4*.

The AERMET/AERMOD model input parameters and assumptions for the assessment are summarised in *Table 3.7*.

**Table 3.7 Model Input Parameters and Assumptions for Assessment**

Input Parameters & Assumptions	Descriptions
Air dispersion model	AERMOD
Type of source	<ul style="list-style-type: none"> <li>Point sources, area sources</li> </ul>
Assessment parameter	<ul style="list-style-type: none"> <li>1-hour TSP</li> <li>24-hour RSP and annual RSP</li> <li>24-hour FSP and annual FSP</li> <li>1-hour NO<sub>2</sub> and annual NO<sub>2</sub></li> <li>10-minute SO<sub>2</sub> and 24-hour SO<sub>2</sub></li> </ul>
Meteorological data	<ul style="list-style-type: none"> <li>Weather Research and Forecasting Model (WRF) data in 2010 from PATH-2016 to be used to input into AERMET to produce AERMOD-ready meteorological data</li> <li>PATH Grid - (15,38), (15,39) and (16,39)</li> <li>Actual mixing heights recorded by the HKO in 2010 were in the range of 121m to 1,667m. Mixing heights from WRF data which are lower than 121m or higher than 1,667m to be adjusted to 121m and 1,667m, respectively</li> <li>Wind direction of 0° to be adjusted to 360°</li> <li>Wind speed smaller than 1m s<sup>-1</sup> to be adjusted to 1m s<sup>-1</sup></li> <li>Anemometer height of WRF data = 9m</li> </ul>

An EPD's recommended model, EMFAC-HK v4.1, was used to predict the vehicular emission factors of NO<sub>x</sub>, RSP and FSP for the 16 vehicle types in 2019. "EMFAC" mode was used for the model run. EMFAC input assumptions, the output emission factors of NO<sub>x</sub>, NO, NO<sub>2</sub>, RSP and FSP for the 16 vehicle types and the calculation of the composite emission factors are presented in Annex A3. An EPD's recommended air dispersion model, CALINE4, was used for predicting the NO<sub>2</sub>, NO, RSP and FSP impacts due to vehicular emissions from the identified internal roads and open roads within the Study Area. Details of the road configurations are provided in Annex A3. Since the highest road height allowed in the input into CALINE4 model is limited at 10m, any road with road height greater than 10m was set at a height of 10m in the CALINE4 model as a conservative approach.

The land use types have been examined within an area of 3 km radius from the concerned PATH grids. As industrial, commercial and residential land uses account for less than 50% of the examined area, rural area was assumed and the surface roughness height of 100cm for rural area was adopted for the CALINE4 model run. Wind directional variability was calculated based on the following formula according to the stability class with reference to Irwin, J.S., 1980<sup>(1)</sup>.

$$S_o = S \times (Z_o/15\text{cm})^{0.2}$$

Where

*Z<sub>o</sub>* = is the surface roughness length (in cm) of the PATH grid;  
*S<sub>o</sub>* = is the standard deviation of the horizontal wind direction Fluctuations (in degrees)  
*S* = is the standard deviation of the horizontal wind direction fluctuations (in degrees) for an aerodynamic surface roughness length of 15cm with reference to Irwin, J.S., 1980. *S* is a function of Pasquill stability class.

Table 3.8 shows the standard deviations of the horizontal wind direction fluctuations under different Pasquill Stability categories for the concerned PATH grid.

**Table 3.8**      ***The Standard Deviation of the Horizontal Wind Direction Fluctuations under Different Pasquill Stability Categories***

<b>Pasquill Stability Class</b>	<b>Standard Deviation of the Horizontal Wind Direction Fluctuations (in degrees)</b>
<b>PATH Grid (15,38), (15,39), (16,39)</b>	
A	32.9
B	32.9
C	25.6
D	18.3
E	11.0
F	5.6

The CALINE4 model input parameters and assumptions are summarised in

(1) Dispersion Estimate Suggestion #8: Estimation of Pasquill Stability Categories. U.S. Environmental Protection Agency, Research Triangle Park, NC. (Docket Reference No.II-B-10), Irwin, J.S., 1980.

Table 3.9.

**Table 3.9 Model Input Parameters and Assumptions for Assessment of Vehicular Emissions**

<b>Input Parameters &amp; Assumptions</b>	<b>Descriptions</b>
Air dispersion model	<ul style="list-style-type: none"> <li>• CALINE4</li> </ul>
Year of traffic flow	<ul style="list-style-type: none"> <li>• Year 2019</li> </ul>
Vehicle emission factors	<ul style="list-style-type: none"> <li>• EMFAC-HK emission factors for 2019</li> </ul>
Assessment parameter	<ul style="list-style-type: none"> <li>• 24-hour RSP and annual RSP</li> <li>• 24-hour FSP and annual FSP</li> <li>• 1-hour NO<sub>2</sub> and annual NO<sub>2</sub></li> </ul>
Meteorological data	<ul style="list-style-type: none"> <li>• Weather Research and Forecasting Model (WRF) data in 2010 from PATH-2016</li> <li>• PATH Grid - (15,38), (15,39) and (16,39)</li> <li>• Actual mixing heights recorded by the HKO in 2010 were in the range of 121m to 1,667m. Mixing heights from WRF data which are lower than 121m or higher than 1667m to be adjusted to 121m and 1,667m, respectively</li> <li>• Wind speeds smaller than the 0.5 m s<sup>-1</sup> recommended by the CALINE4 model were adjusted to 0.5 m s<sup>-1</sup>.</li> <li>• Stability class calculated by PCRAMMET (version 99169)</li> <li>• Calculation of wind directional variability based on stability class and surface roughness length of 100 cm for rural areas.</li> </ul>

### *Background Air Quality*

For the assessment of NO<sub>2</sub> impact, the PATH-2016 model in 2019 was re-run to exclude NO<sub>x</sub> emissions from road traffic and industrial emissions (i.e. GIC) within the Study Area and marine emissions off the coast of EcoPark and TMFB (Grid 15,38). This is to avoid double counting of NO<sub>x</sub> emissions from road traffic and industrial emissions which have been considered in Tier-2 contributions. The same amount of marine NO<sub>x</sub> emissions removed from the PATH-2016 model have been added to Tier-2 (AERMOD).

The hourly NO<sub>2</sub> concentrations in 2019 predicted by the PATH-2016 model re-run were adopted as the background air quality. The hourly RSP and SO<sub>2</sub> concentrations in 2019 from the unmodified PATH-2016 model run obtained from EPD's website were used as the background air quality for the assessment.

The background air pollutant concentrations predicted by the PATH-2016 model in 2019 for the PATH grids within the Study Area adopted in this assessment are presented in *Table 3.10*.

**Table 3.10 Background Air Pollutant Concentrations Predicted by the PATH-2016 Model in 2019**

PATH Grid	Concentration of Pollutants ( $\mu\text{g m}^{-3}$ )								
	19 <sup>th</sup> highest 1-hour NO <sub>2</sub> (c)	Annual NO <sub>2</sub> (c)	4 <sup>th</sup> highest 24-hour SO <sub>2</sub>	4 <sup>th</sup> highest 10-min SO <sub>2</sub> (a)	10 <sup>th</sup> highest 24-hour RSP (b)	Annual RSP (b)	10 <sup>th</sup> highest Daily Max. 8-hour O <sub>3</sub>	Daily Max. 1-hour CO	Daily Max. 8-hour CO
15, 38	126	32	40	208	86	38	140	975	837
15, 39	120	27	37	189	82	35	152	974	834
16, 39	124	28	36	169	84	36	155	975	829
<b>Prevailing AQOs</b>	<b>200</b>	<b>40</b>	<b>125</b>	<b>500</b>	<b>100</b>	<b>50</b>	<b>160</b>	<b>30,000</b>	<b>10,000</b>

**Notes:**

(a) The multiplicative factor for the stability class calculated for each hour was applied to the 1-hour SO<sub>2</sub> concentrations to estimate the 10-minute SO<sub>2</sub> concentrations.

(b) An adjustment of 26.5 $\mu\text{g}/\text{m}^3$  and 15.6 $\mu\text{g}/\text{m}^3$  were added to the RSP background for calculation of 24-hour RSP and annual RSP, respectively.

(c) The presented NO<sub>2</sub> results are from PATH-2016 model re-run with NO<sub>x</sub> emissions from road traffic and industrial emissions in relevant PATH grids removed to avoid double-counting.

As shown in Table 3.10, the background air pollutant concentrations in the relevant PATH grids in 2019 are below the relevant AQO criteria.

In accordance with the *Guidelines on Choice of Models and Model Parameters* published by EPD, an adjustment of 26.5  $\mu\text{g m}^{-3}$  and 15.6  $\mu\text{g m}^{-3}$  was added to hourly RSP background predicted by PATH-2016 for the assessment of 24-hour and annual RSP, respectively.

FSP data are not available in the hourly PATH-2016 background concentration results provided by the EPD. According to the EPD's *Guidelines on the Estimation of PM<sub>2.5</sub> for Air Quality Assessment in Hong Kong*, FSP hourly background data can be obtained by multiplying the PATH-2016 hourly RSP background with a weight fraction. Table 3.11 presents the EPD recommended FSP to RSP ratios which are adopted in this assessment.

**Table 3.11 FSP to RSP Ratios as recommended by the EPD**

	Annual	24-hour
FSP (PM <sub>2.5</sub> )/RSP (PM <sub>10</sub> ) ratio	0.71	0.75

**Note:**

(a) Reference to EPD's "*Guidelines on the Estimation of PM<sub>2.5</sub> for Air Quality Assessment in Hong Kong*".

#### *Post-processing of Modelling Results*

For stack emissions, the hourly concentrations of NO<sub>x</sub> were predicted at the relevant assessment heights of the identified ASRs. Ozone Limiting Method (OLM) was adopted for the conversion of NO<sub>x</sub> to NO<sub>2</sub>. The initial NO<sub>2</sub>/NO<sub>x</sub>

ratio for stack emissions was assumed to be 0.1 <sup>(1)</sup> and the conversion of NO<sub>x</sub> to NO<sub>2</sub> was calculated as follows:

$$[\text{NO}_2]_{\text{pred}} = 0.1 \times [\text{NO}_x]_{\text{pred}} + \text{MIN} \{0.9 \times [\text{NO}_x]_{\text{pred}}, \text{ or } (46/48) \times [\text{O}_3]_{\text{bkgd}}\}$$

where

- $[\text{NO}_2]_{\text{pred}}$  = the predicted NO<sub>2</sub> concentration
- $[\text{NO}_x]_{\text{pred}}$  = the predicted NO<sub>x</sub> concentration
- MIN means the minimum of the two values within the brackets
- $[\text{O}_3]_{\text{bkgd}}$  = the representative O<sub>3</sub> background concentration; (46/48) is the molecular weight of NO<sub>2</sub> divided by the molecular weight of O<sub>3</sub>

For vehicular emissions, individual NO<sub>2</sub>/NO<sub>x</sub> ratios of each vehicle type in 2019 have been used to estimate the overall NO and NO<sub>2</sub> emissions arising from road traffic with reference to recommendation in EPD's *Guidelines for Local-scale Air Quality Assessment Using Models*. The predicted NO concentrations were converted to NO<sub>2</sub> based on OLM and were added with the predicted NO<sub>2</sub> concentrations to determine the total predicted NO<sub>2</sub> concentrations at the ASRs. The total predicted NO<sub>2</sub> concentrations were calculated as follows:

$$[\text{NO}_2]_{\text{pred total}} = [\text{NO}_2]_{\text{pred}} + \text{MIN} \{[\text{NO}]_{\text{pred}}, \text{ or } (46/48) \times [\text{O}_3]_{\text{bkgd}}\}$$

where

- $[\text{NO}_2]_{\text{pred total}}$  = the total predicted NO<sub>2</sub> concentration
- $[\text{NO}_2]_{\text{pred}}$  = the predicted NO<sub>2</sub> concentration directly emitted from tailpipe emissions
- $[\text{NO}]_{\text{pred}}$  = the predicted NO concentration
- MIN means the minimum of the two values within the brackets
- $[\text{O}_3]_{\text{bkgd}}$  = the representative O<sub>3</sub> background concentration; (46/48) is the molecular weight of NO<sub>2</sub> divided by the molecular weight of O<sub>3</sub>

Predicted ozone concentrations in 2019 obtained from the PATH-2016 model re-run were used for the conversion of NO<sub>x</sub> to NO<sub>2</sub> in OLM.

The hourly SO<sub>2</sub> concentrations at the identified ASRs were converted into 10-minute SO<sub>2</sub> concentrations for comparison with the respective AQO criterion. According to the EPD's "*Guidelines on the Estimation of 10-minute Average SO<sub>2</sub> Concentration for Air Quality Assessment in Hong Kong*", it is recommended that the stability-dependent multiplicative factors from Duffee *et al.*, 1991<sup>(2)</sup> be used. The conversion factors adopted in this assessment for the different stability classes are shown in *Table 3.12*.

- (1) Air Quality Studies for Heathrow: Base Case, Segregated Mode, Mixed Mode and Third Runway Scenarios modelled using ADMS-Airport, 2007.
- (2) Richard A. Duffee, Martha A. O'Brien and Ned Ostojic (1991) Odor Modeling - Why and How. Page 295, *Recent Developments and Current Practices in Odor Regulations, Controls and Technology*. Air & Waste Management Association, 1991.

**Table 3.12 Conversion Factors from 1-hour to 10-minutes Mean Concentrations**

Pasquill Stability Class	Conversion Factor (1-hour to 10-minute)
A	2.45
B	2.45
C	1.82
D	1.43
E	1.35
F	1.35

**Note:**  
 (a) Reference to the EPD's "Guidelines on the Estimation of 10-minute Average SO<sub>2</sub> Concentration for Air Quality Assessment in Hong Kong"

*Cumulative Impact*

The predicted TSP, RSP, FSP, NO<sub>2</sub> and SO<sub>2</sub> results from AERMOD and CALINE4 models at each ASR were added up with the PATH-2016 background concentrations on an hour-by-hour basis. Considering that vehicular RSP emissions also contribute to the total TSP impact, TSP results from AERMOD were added up with the RSP results from CALINE4 and PATH-2016 background RSP concentrations to assess the cumulative TSP impact. The relevant time period averages for each air pollutant assessed were calculated and compared with the relevant assessment criteria to evaluate the cumulative air quality impact at the identified ASRs.

**3.7 AIR QUALITY MITIGATION MEASURES**

Relevant dust control measures stipulated in the *Air Pollution Control (Construction Dust) Regulation* will continue to be implemented in the Review Period. Requirements stipulated in the *Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation* will also be followed to control potential emissions from non-road mobile machinery within TMFB.

Specific air quality control measures as recommended in the 2018 ER Report and in the latest EP-210/2005/C to reduce potential air quality impact to EcoPark will continue to be implemented during the Review Period. These include:

- Major haul roads and material stockpiling areas will be watered at least once every hour during operation to ensure that the roads and stockpiling areas are kept sufficiently dampened;
- Temporary slope surfaces of the stockpiling areas shall be covered with tarpaulin sheets or other impermeable sheets, or sprayed with water or a dust suppression chemical;
- Internal haul roads R3, R4, R5 and R11 shall be kept wet at all times;
- Site hoarding of at least 2.4m high shall be provided along the boundaries of the site except at the site entrance/exit;

- Vehicle wheel washing facilities including high pressure water jets shall be provided at designated vehicle exit points and operated by designated staff. Before leaving the site, every vehicle shall be washed to remove any dusty materials from its body and wheels;
- Trucks carrying dusty load entered to the site shall be sprayed with water once the impervious sheeting covering the load is removed;
- All public fill delivery trucks carrying dusty load leaving the fill bank shall be required to be covered entirely by clean impervious sheeting to prevent the dusty materials leaking from the vehicles;
- All haul roads within the site shall be paved with concrete, bituminous materials, hardcores or metal plates;
- At the barging point, the drop height between the barge and dump trucks shall be minimised;
- Tipping halls provided for transfer of public fill from trucks to barges shall be top and 3-sides enclosed;
- Truck speed within the site shall be controlled to within 10km/hour;
- All dusty fill materials shall be sprayed with water or a dust suppression chemical prior to loading, unloading or transfer so as to maintain the fill material wet, except of situations where the moisture content of the dusty material is a matter of concern;
- Loading of public fill delivered by barges to the site shall be sprayed with water at the material landing point to minimise dust emissions except when the materials are sufficiently dampened when landed. Any mist spraying applied should only dampen the dusty materials and overwatering should be avoided;
- Belt conveyor systems used for transfer of dusty materials shall be enclosed on top and 2 sides. Every transfer point between two conveyors shall be totally enclosed;
- Belt conveyor shall be equipped with bottom plates or other similar means to prevent falling of materials from the return belt;
- The vertical distance between the belt conveyor and the material landing point shall be maintained at no more than 1m;
- Dusty materials loaded from a belt conveyor outlet to stockpiles, storage bins, trucks, barges and other open areas shall be sprayed with water or a dust suppression chemical;
- Haul road R11 shall be no less than 75m away from the western site boundary of TMFB;



- Vertical barrier of 5m high shall be erected along the west side of haul road R11;
- Sorted material from NSA shall be delivered to the barging point B3 via an enclosed conveyor belt system to avoid delivery by trucks;
- NSA and its associated enclosed conveyor belt system shall be connected to CLP power supply from 1 July 2019 to avoid emissions from diesel generators; and
- Internal trucks within TMFB shall be at least of Euro V emission standard.

### 3.8 EVALUATION OF IMPACTS

#### 3.8.1 TSP, RSP and FSP Impacts

Cumulative TSP, RSP and FSP impacts on the identified ASRs, taking into account the three cases of EcoPark emissions (see Section 3.6.4), have been assessed. The predicted cumulative maximum 1-hour TSP, 10<sup>th</sup> highest 24-hour and annual RSP, and 10<sup>th</sup> highest 24-hour and annual FSP at the worst affected height of the identified ASRs are presented in Table 3.13. Detailed results of all relevant assessment heights of each ASR under each of the three cases are provided in Annex A5.

**Table 3.13 Predicted Cumulative TSP, RSP and FSP Concentrations at the Worst Affected Height at Identified ASRs**

ASR	Predicted Cumulative Concentration ( $\mu\text{g m}^{-3}$ )				
	Max 1-hour TSP	10 <sup>th</sup> Highest 24-hour RSP <sup>(a)</sup>	Annual RSP	10 <sup>th</sup> Highest 24-hour FSP <sup>(a)</sup>	Annual FSP
A3	368.0	86.8	39.0	65.3	27.4
A4	364.1	95.1	44.1	70.3	30.6
A5	451.3	93.3	43.8	68.5	29.8
A9	202.3	84.8	37.9	63.4	26.9
A10	203.6	90.7	41.3	68.2	29.8
A11	315.0	86.1	37.6	64.7	26.7
<b>Criteria <sup>(b)</sup></b>	<b>500</b>	<b>100</b>	<b>50</b>	<b>75</b>	<b>35</b>

**Notes:**

(a) The AQO allows 9 exceedances over a year, therefore, the results presented are in the 10<sup>th</sup> highest.

(b) The 1-hour TSP criterion is referenced from EIAO-TM. RSP and FSP criteria are AQO criteria.

The assessment results show that the cumulative TSP, RSP and FSP impacts at the identified ASRs comply with the relevant AQO criteria. Therefore, adverse TSP, RSP and FSP impact due to TMFB operation during the Review Period is not anticipated.

### 3.8.2

#### *NO<sub>2</sub> Impacts*

Cumulative NO<sub>2</sub> impacts on the identified ASRs, taking into account the three cases of EcoPark emissions (see *Section 3.6.4*), have been assessed. The predicted cumulative 19<sup>th</sup> highest 1-hour NO<sub>2</sub> and annual NO<sub>2</sub> at the worst affected height of the identified ASRs are presented in *Table 3.14*. Detailed results of all relevant assessment heights of each ASR under each of the three cases are provided in *Annex A5*.

**Table 3.14** *Predicted Cumulative NO<sub>2</sub> Concentrations at the Worst Affected Height at Identified ASRs*

ASR	Predicted Cumulative Concentration (µg m <sup>-3</sup> )	
	19 <sup>th</sup> Highest 1-hour NO <sub>2</sub> <sup>(a)</sup>	Annual NO <sub>2</sub>
A3	152.8	38.1
A4	146.2	38.9
A5	149.6	39.6
A9	140.9	37.0
A10	141.7	37.5
A11	155.3	39.0
<b>AQO Criteria</b>	<b>200</b>	<b>40</b>

**Note:**

(a) The AQO allows 18 exceedances over a year, therefore, the results presented are in the 19<sup>th</sup> highest.

The assessment results show that the cumulative NO<sub>2</sub> impacts at the identified ASRs comply with the relevant AQO criteria. Therefore, adverse NO<sub>2</sub> impact due to TMFB operation during the Review Period is not anticipated.

### 3.8.3

#### *SO<sub>2</sub> Impacts*

Cumulative SO<sub>2</sub> impacts on the identified ASRs, taking into account the three cases of EcoPark emissions (see *Section 3.6.4*), have been assessed. The predicted cumulative 4<sup>th</sup> highest 10-minute SO<sub>2</sub> and 4<sup>th</sup> highest 24-hour SO<sub>2</sub> at the worst affected height of the identified ASRs are presented in *Table 3.15*. Detailed results of all relevant assessment heights of each ASR under each of the three cases are provided in *Annex A5*.

**Table 3.15** *Predicted Cumulative SO<sub>2</sub> Concentrations at the Worst Affected Height at Identified ASRs*

ASR	Predicted Cumulative Concentration (µg m <sup>-3</sup> )	
	4 <sup>th</sup> Highest 10-min SO <sub>2</sub> (a)	4 <sup>th</sup> Highest 24-hour SO <sub>2</sub> (a)
A3	200.1	37.0
A4	228.2	42.5
A5	247.8	42.2
A9	207.2	37.7
A10	208.4	40.5
A11	186.9	37.0
<b>AQO Criteria</b>	<b>500</b>	<b>125</b>

**Note:**

(a) The AQO allows 3 exceedances over a year, therefore, the results presented are in the 4<sup>th</sup> highest.

The assessment results show that the cumulative SO<sub>2</sub> impacts at the identified ASRs comply with the relevant AQO criteria. Therefore, adverse air quality impact from potential SO<sub>2</sub> emissions due to TMFB operation during the Review Period is not anticipated.

### 3.9 *EM&A REQUIREMENTS*

The monitoring locations, monitoring frequency and equipment used for the existing 1-hour and 24-hour TSP monitoring as required under the EM&A programme will remain unchanged. 1-hour TSP levels and 24-hour TSP levels will be monitored three times every six days and once every six days, respectively, using high volume samplers. The locations of TM-A1 and TM-A2 are shown in *Figure 3.1*.

The potential air quality impacts associated with the TMFB operation as well as adjacent industrial sources in the upcoming 1 year (i.e. during the Review Period, June 2019 to May 2020) have been evaluated. The operation of the TMFB during the Review Period has been reviewed and the latest operational conditions within the TMFB has been taken into account in this assessment. In addition, industrial emission sources within the Study Area have been reviewed. Emissions within EcoPark during the Review Period have been updated based on latest information provided by WRG of EPD. The assessment results demonstrated that the predicted cumulative pollutant concentrations at the ASRs comply with the prevailing AQOs and thus no adverse air quality impact is anticipated during the Review Period.

The existing air quality mitigation measures and monitoring being implemented within the TMFB remain applicable and no additional mitigation measure or monitoring is considered necessary.

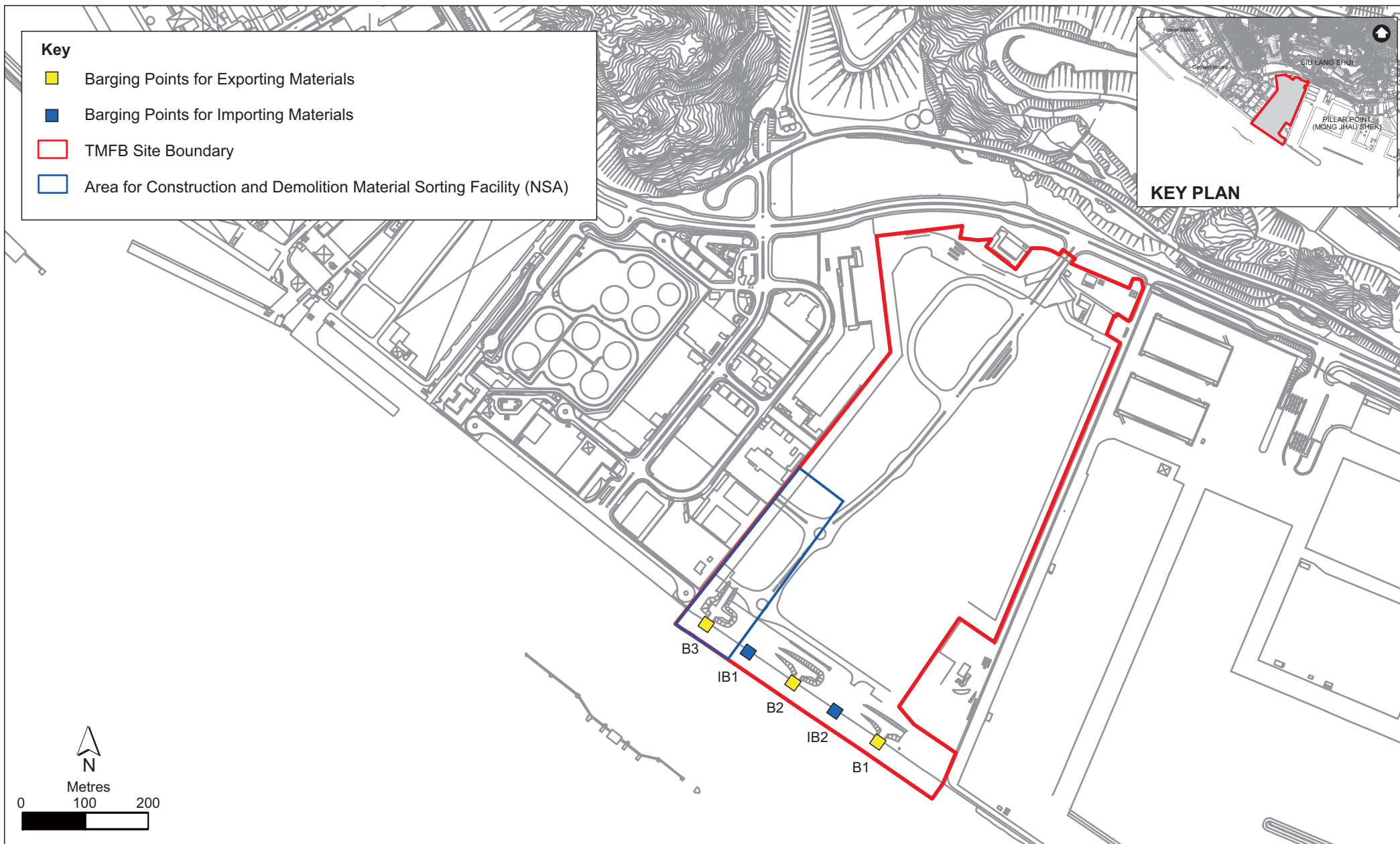


Figure 2.1

Locations of Key Facilities within Tuen Mun Fill Bank



ASR	Location
A3	Eco Park Tenant: WEEE
A4	Eco Park Tenant: South China
A5	Eco Park Tenant: Chung Yue
A9	Eco Park Administration Building
A10	PAFF Office
A11	Proposed Modern Logistics Development at TM Area 49

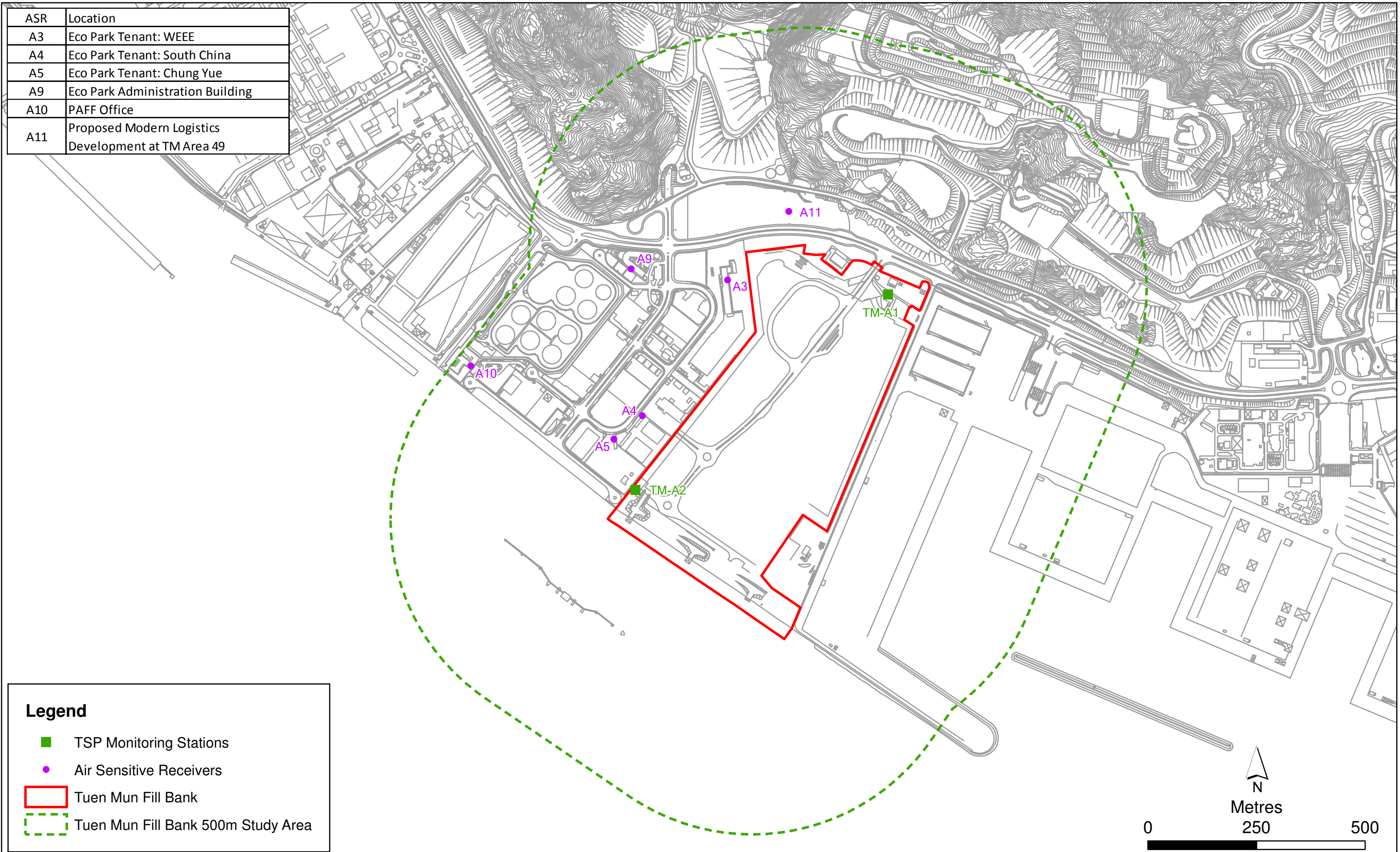


Figure 3.1

Locations of Representative Air Sensitive Receivers and TSP Monitoring Stations



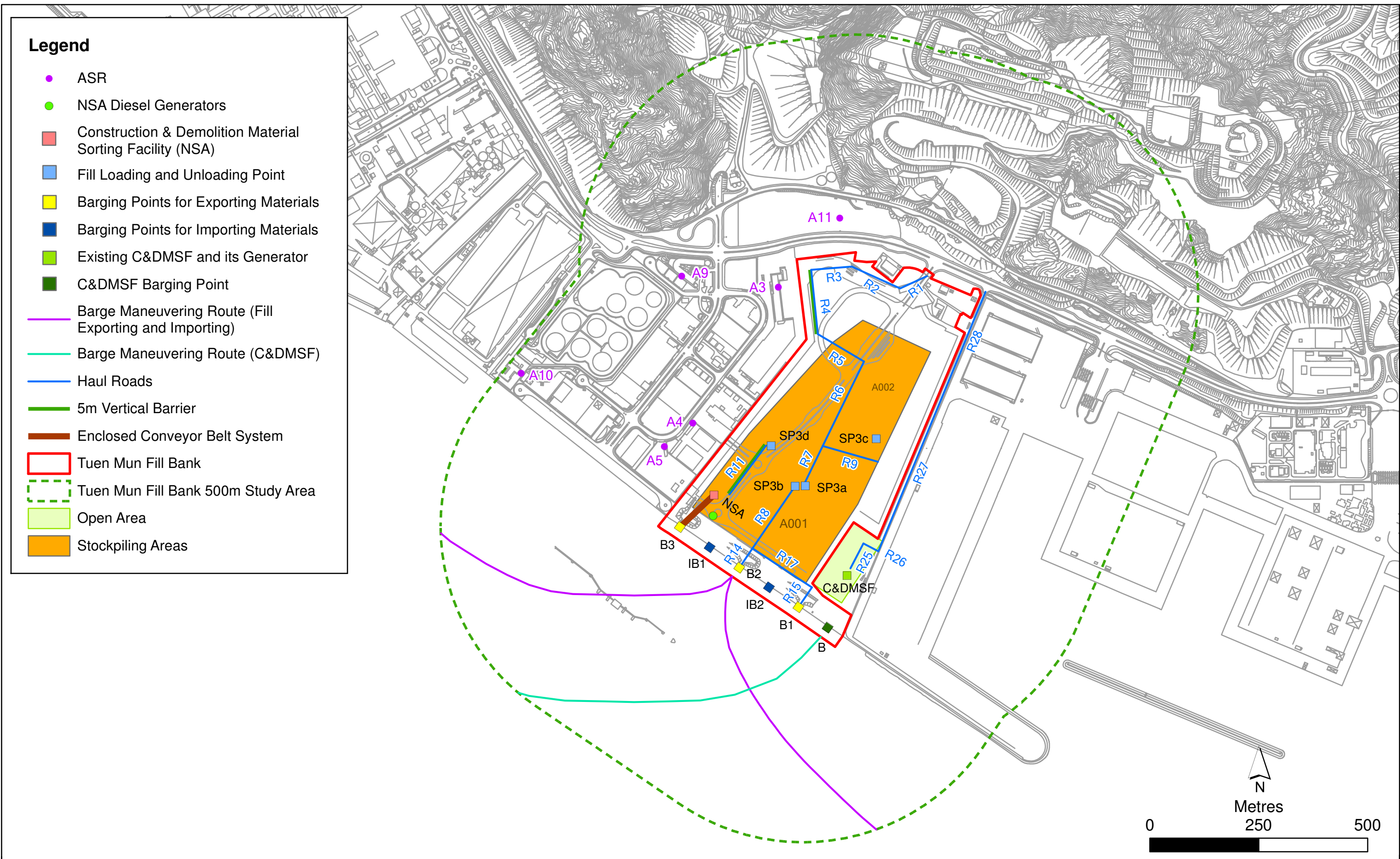


Figure 3.2

Locations of Major Emission Sources Associated with Tuen Mun Fill Bank Operation



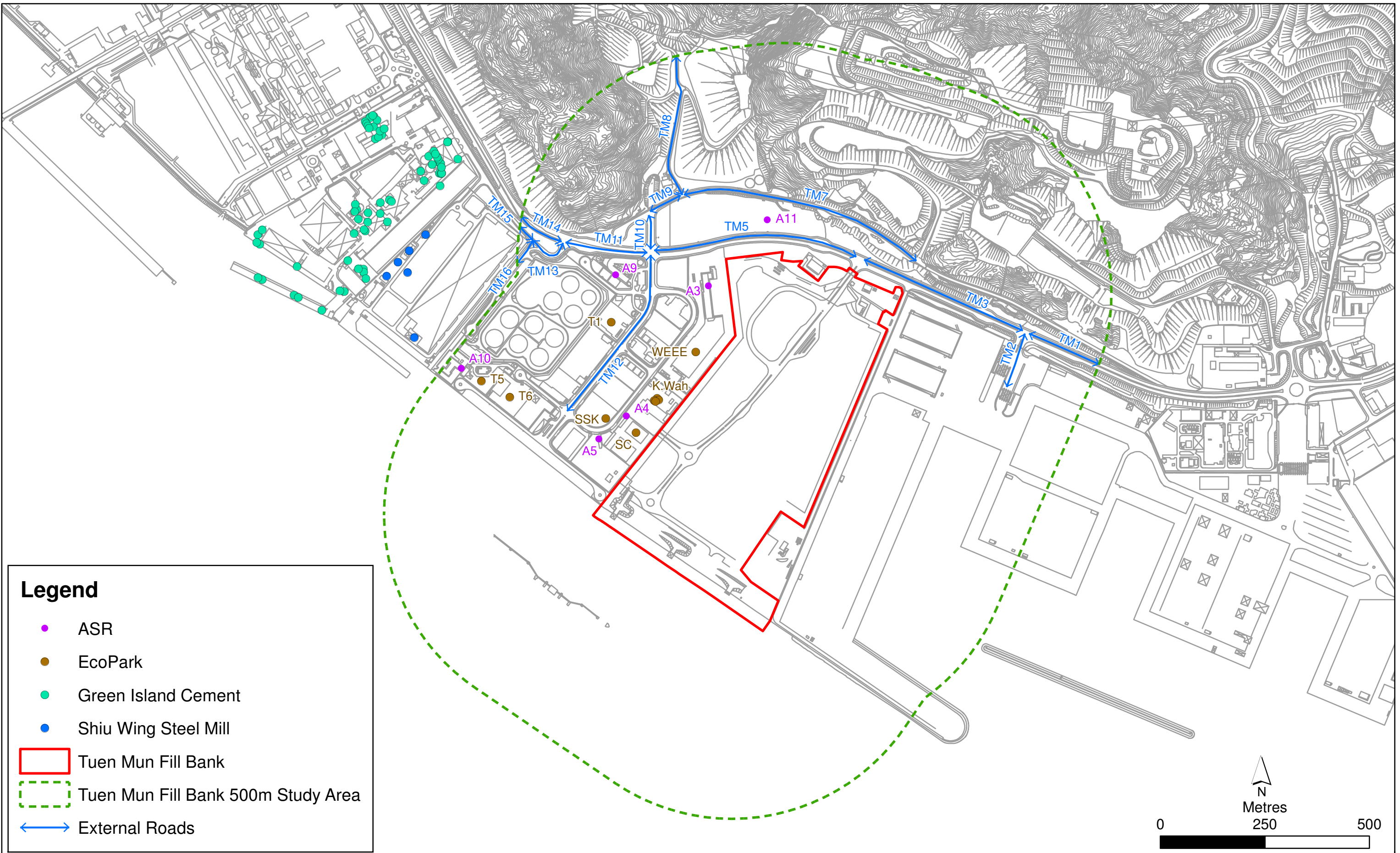


Figure 3.3

External Roads and Industrial Sources within 500m Study Area



Annex A

## Details of Air Quality Assessment

Annex A1

Emission Inventory and  
Detailed Emission Rate  
Calculations for Sources  
Associated with TMFB  
Operation (Except  
Vehicular Emissions)

**Annex A1 - TSP, RSP and FSP Emission Rate Calculations for Dust Emission Sources within TMFB**

Item	Location	Source	Pollutant	Parameters	Value	Unit	Emission Rate				Reference	
							Unmitigated	Mitigated	Unit	% Reduction (a)		
1	Stockpiling Areas A001 to A002	wind erosion	TSP	Emission Factor	0.85	Mg/ha/yr	2.70E-06	2.24E-07	g/m2/s	91.7	AP-42, Section 11.9 (Edition 10/98), Table 11.9-4	
			RSP	Emission Factor	0.40	Mg/ha/yr	1.27E-06	1.06E-07	g/m2/s	91.7	AP-42, Section 13.2.4 (Edition 11/06)	
			FSP	Emission Factor	0.06	Mg/ha/yr	1.93E-07	1.60E-08	g/m2/s	91.7	AP-42, Section 13.2.4 (Edition 11/06)	
	Open Area A003	wind erosion	TSP	Emission Factor	0.85	Mg/ha/yr	2.70E-06	2.70E-06	g/m2/s	0	AP-42, Section 11.9 (Edition 10/98), Table 11.9-4	
			RSP	Emission Factor	0.40	Mg/ha/yr	1.27E-06	1.27E-06	g/m2/s	0	AP-42, Section 13.2.4 (Edition 11/06)	
			FSP	Emission Factor	0.06	Mg/ha/yr	1.93E-07	1.93E-07	g/m2/s	0	AP-42, Section 13.2.4 (Edition 11/06)	
2	Stockpiling Area A001	Material Handling at SP3a	Truck Capacity	14.3	tonnes/truck						Provided by CEDD	
			Truck Quantity	1300	truck/day							Provided by CEDD
			working hours	10.5	hours							Provided by CEDD
			TSP	Emission Factor	2.13E-04	kg/Mg	1.05E-01	1.05E-02	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
			RSP	Emission Factor	1.01E-04	kg/Mg	4.96E-02	4.96E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
			FSP	Emission Factor	1.53E-05	kg/Mg	7.52E-03	7.52E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
		Material Handling at SP3b (daytime)	Truck Capacity	14.3	tonnes/truck							Provided by CEDD
			Truck Quantity	1050	truck/day							Provided by CEDD
			working hours	16	hours							Provided by CEDD
			TSP	Emission Factor	2.13E-04	kg/Mg	5.56E-02	5.56E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
			RSP	Emission Factor	1.01E-04	kg/Mg	2.63E-02	2.63E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
			FSP	Emission Factor	1.53E-05	kg/Mg	3.98E-03	3.98E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
	Material Handling at SP3b (nighttime)	Truck Capacity	14.3	tonnes/truck							Provided by CEDD	
		Truck Quantity	525	truck/night							Provided by CEDD	
		working hours	8	hours							Provided by CEDD	
		TSP	Emission Factor	2.13E-04	kg/Mg	5.56E-02	5.56E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)		
		RSP	Emission Factor	1.01E-04	kg/Mg	2.63E-02	2.63E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)		
		FSP	Emission Factor	1.53E-05	kg/Mg	3.98E-03	3.98E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)		
	Material Handling at SP3d (daytime)	Truck Capacity	14.3	tonnes/truck							Provided by CEDD	
		Truck Quantity	640	truck/day							Provided by CEDD	
		working hours	16	hours							Provided by CEDD	
		TSP	Emission Factor	2.13E-04	kg/Mg	3.39E-02	3.39E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)		
		RSP	Emission Factor	1.01E-04	kg/Mg	1.60E-02	1.60E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)		
		FSP	Emission Factor	1.53E-05	kg/Mg	2.43E-03	2.43E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)		
Material Handling at SP3d (nighttime)	Truck Capacity	14.3	tonnes/truck							Provided by CEDD		
	Truck Quantity	320	truck/night							Provided by CEDD		
	working hours	8	hours							Provided by CEDD		
	TSP	Emission Factor	2.13E-04	kg/Mg	3.39E-02	3.39E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)			
	RSP	Emission Factor	1.01E-04	kg/Mg	1.60E-02	1.60E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)			
	FSP	Emission Factor	1.53E-05	kg/Mg	2.43E-03	2.43E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)			
3	Stockpiling Area A002	Material Handling at	Truck Capacity	14.3	tonnes/truck						Provided by CEDD	
			Truck Quantity	10	truck/day							Provided by CEDD
			working hours	10.5	hours							Provided by CEDD
			TSP	Emission Factor	2.13E-04	kg/Mg	8.07E-04	8.07E-05	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
			RSP	Emission Factor	1.01E-04	kg/Mg	3.82E-04	3.82E-05	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
			FSP	Emission Factor	1.53E-05	kg/Mg	5.78E-05	5.78E-06	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	

Emission factor =  $k(0.0016)(U/2.2)^{1.3}/(M/2)^{1.4}$

Aerodynamic Particle Size Multiplier (k)				
< 30 µm	< 15 µm	< 10 µm	< 5 µm	< 2.5 µm
0.74	0.48	0.35	0.2	0.053

AP-42, Section 13.2.4 (Edition 11/06)

$U = 4.237 \text{ m/s}$  Note (a)

$M = 12.5 \%$  Note (b)

(a) Wind data from PATH-2016 (Grid 16,38)

(b) Measured averaged moisture content from 2013 TMFB ERR

Emission factor for paved road:  $E \text{ (g/vkt)} = k((sL)^{0.91})(W)^{1.02}$

Aerodynamic Particle Size Multiplier (k) - g/vkt			
< 30 µm	< 15 µm	< 10 µm	< 2.5 µm
3.23	0.77	0.62	0.15

AP-42 Section 13.2.1 (Edition 1/11)

$sL = 2.4 \text{ g/m}^2$  Note (c)

$W = 25.1 \text{ US ton}$  Note (d)

(c) Surface silt loading for quarry with reference to 2013 TMFB ERR

(d) Mean vehicle weight.

Loaded truck is 30MT; Unloaded truck is 15.7MT.

**Annex A1 - TSP, RSP and FSP Emission Rate Calculations for Dust Emission Sources within TMFB**

Item	Location	Source	Pollutant	Parameters	Value	Unit	Emission Rate				Reference
							Unmitigated	Mitigated	Unit	% Reduction (a)	
4	Existing C&DMSF	Material handling and screening at existing C&DMSF		Handling Capacity	700	tonnes/day					Provided by CEDD
				working hours	12	hours					Provided by CEDD
				Emission Factor (screening)	1.10E-03	kg/Mg	1.78E-02	1.78E-02	g/s	0	AP-42, Table 11.19.2-1, Screening (controlled)
				Emission Factor (handling)	2.13E-04	kg/Mg	3.46E-03	3.46E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
				Emission Factor (screening)	3.70E-04	kg/Mg	6.00E-03	6.00E-03	g/s	0	AP-42, Table 11.19.2-1, Screening (controlled)
				Emission Factor (handling)	1.01E-04	kg/Mg	1.64E-03	1.64E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
				Emission Factor (screening)	2.50E-05	kg/Mg	4.05E-04	4.05E-04	g/s	0	AP-42, Table 11.19.2-1, Screening (controlled)
				Emission Factor (handling)	1.53E-05	kg/Mg	2.48E-04	2.48E-05	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
5	New C&DMSF (NSA)	Material handling and screening at NSA (daytime)		Handling Capacity	9152	tonnes/day					Provided by CEDD
				working hours	16	hours					Provided by CEDD
				Emission Factor (screening)	1.10E-03	kg/Mg	1.75E-01	1.75E-01	g/s	0	AP-42, Table 11.19.2-1, Screening (controlled)
				Emission Factor (handling)	2.13E-04	kg/Mg	3.39E-02	3.39E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
				Emission Factor (screening)	3.70E-04	kg/Mg	5.88E-02	5.88E-02	g/s	0	AP-42, Table 11.19.2-1, Screening (controlled)
				Emission Factor (handling)	1.01E-04	kg/Mg	1.60E-02	1.60E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
				Emission Factor (screening)	2.50E-05	kg/Mg	3.97E-03	3.97E-03	g/s	0	AP-42, Table 11.19.2-1, Screening (controlled)
		Emission Factor (handling)	1.53E-05	kg/Mg	2.43E-03	2.43E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)		
		Material handling and screening at NSA (nighttime)		Handling Capacity	4576	tonnes/night					Provided by CEDD
				working hours	8	hours					Provided by CEDD
				Emission Factor (screening)	1.10E-03	kg/Mg	1.75E-01	1.75E-01	g/s	0	AP-42, Table 11.19.2-1, Screening (controlled)
				Emission Factor (handling)	2.13E-04	kg/Mg	3.39E-02	3.39E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
				Emission Factor (screening)	3.70E-04	kg/Mg	5.88E-02	5.88E-02	g/s	0	AP-42, Table 11.19.2-1, Screening (controlled)
				Emission Factor (handling)	1.01E-04	kg/Mg	1.60E-02	1.60E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
Emission Factor (screening)	2.50E-05			kg/Mg	3.97E-03	3.97E-03	g/s	0	AP-42, Table 11.19.2-1, Screening (controlled)		
Emission Factor (handling)	1.53E-05	kg/Mg	2.43E-03	2.43E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)				
6	Barging points for importing materials	Material handling at IB1, IB2		Handling rate (per location)	2000	tonnes/day					Provided by CEDD
				working hours	16	hours					Provided by CEDD
				Emission Factor	2.13E-04	kg/Mg	7.41E-03	7.41E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
				Emission Factor	1.01E-04	kg/Mg	3.50E-03	3.50E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
				Emission Factor	1.53E-05	kg/Mg	5.31E-04	5.31E-05	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
				Emission Factor							
7	Barging points for exporting materials	Material handling at B1, B2 (daytime)		Handling rate (per location)	7500	tonnes/day					Provided by CEDD
				working hours	16	hours					Provided by CEDD
				Emission Factor	2.13E-04	kg/Mg	2.78E-02	2.78E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
				Emission Factor	1.01E-04	kg/Mg	1.31E-02	1.31E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
				Emission Factor	1.53E-05	kg/Mg	1.99E-03	1.99E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
		Material handling at B1, B2 (nighttime)		Handling rate (per location)	3750	tonnes/night					Provided by CEDD
				working hours	8	hours					Provided by CEDD
				Emission Factor	2.13E-04	kg/Mg	2.78E-02	2.78E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
				Emission Factor	1.01E-04	kg/Mg	1.31E-02	1.31E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
				Emission Factor	1.53E-05	kg/Mg	1.99E-03	1.99E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)



## Annex A1 - TSP, RSP and FSP Emission Rate Calculations for Dust Emission Sources within TMFB

Item	Location	Source	Pollutant	Parameters	Value	Unit	Emission Rate				Reference
							Unmitigated	Mitigated	Unit	% Reduction (a)	
		R14, R15, R17 (daytime)		Truck Quantity	1050	truck/day					Provided by CEDD
				working hours	16	hours					Provided by CEDD
			TSP	Emission Factor	192.07871	g/vkt	3.50E-03	2.91E-04	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
		RSP	Emission Factor	36.869597	g/vkt	6.72E-04	5.58E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)	
		FSP	Emission Factor	8.9200637	g/vkt	1.63E-04	1.35E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)	
		R14, R15, R17 (nighttime)		Truck Quantity	525	truck/night					Provided by CEDD
				working hours	8	hours					Provided by CEDD
			TSP	Emission Factor	192.07871	g/vkt	3.50E-03	2.91E-04	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
		RSP	Emission Factor	36.869597	g/vkt	6.72E-04	5.58E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)	
		FSP	Emission Factor	8.9200637	g/vkt	1.63E-04	1.35E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)	
		R25, R26, R27, R28		Truck Quantity	200	truck/day					Provided by CEDD
				working hours	12	hours					Provided by CEDD
			TSP	Emission Factor	192.07871	g/vkt	8.89E-04	7.38E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
		RSP	Emission Factor	36.869597	g/vkt	1.71E-04	1.42E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)	
		FSP	Emission Factor	8.9200637	g/vkt	4.13E-05	3.43E-06	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)	

**Note:**

(a) Watering once every hour during working hours. It is assumed that 91.7% dust suppression efficiency can be achieved by watering frequency of once every hour for dust emissions from wind erosion and haul roads with reference to USEPA's Control of Open Fugitive Dust Sources (EPA-450/3-98-008).

$$C = 100 - 0.8pdt / i$$

$$= 100 - 0.8 \times 0.2368 \times 155 \times 1 / 3.54 = 91.7\%$$

where:

C = percentage of efficiency, %

p = potential average hourly daytime evaporation rate, mm/hr = 0.0049 x 48.32 inches = 0.2368

Evaporation recorded at King's Park between 1981 to 2010 is 1227.3mm (48.32 inches). ([http://www.hko.gov.hk/cis/monthlyElement\\_e.htm?ele=EVAPO](http://www.hko.gov.hk/cis/monthlyElement_e.htm?ele=EVAPO))

d = average hourly daytime traffic rate, in vehicles per hour = 155

t = time between application of watering, hr = 1 (i.e. once every hour)

i = application intensity, L/m<sup>2</sup> = 3.54

(b) Application of water at material handling (loading and unloading) locations can reduce dust emissions by 90% with reference to AP-42, 5th Edition, Vol 1, Chapter 11 (Mineral Products Industry), Section 11.19.1.2 (Emissions and Controls).

**Annex A1 - TSP, RSP and FSP Emission Inventory for Dust Emission Sources within TMFB**

Source ID	Description	Source Type	Coordinates		Dimension/ Coordinates		Base Elevation	Height	Angle/ Width	Working Hour <sup>(a)</sup>	TSP Emission Rate		RSP Emission Rate		FSP Emission Rate	
			X1	Y1	X2	Y2					Working Hours	Non-working Hours / Nighttime Working Hours	Working Hours	Non-working Hours / Nighttime Working Hours	Working Hours	Non-working Hours / Nighttime Working Hours
			m	m	m	m					m	m	deg / m	g/m2/s	g/m2/s	g/m2/s
A001	Wind erosion	Polygon Area	811209.5	825399.6			5	15		0800-1900	2.24E-07	2.70E-06	1.06E-07	1.27E-06	1.60E-08	1.93E-07
			811114.9	825205.4												
			811241.7	825169.2												
			811195.4	825072.0												
			811075.5	824890.2												
			811052.9	824902.7												
			810815.3	825064.7												
			810945.7	825233.7												
811137.1	825442.7															
A002	Wind erosion	Polygon Area	811362.8	825421.5			5	15		0800-1900	2.24E-07	2.70E-06	1.06E-07	1.27E-06	1.60E-08	1.93E-07
			811241.7	825169.2												
			811114.9	825205.4												
			811209.5	825399.6												
			811137.1	825442.7												
811207.0	825494.2															
A003	Wind erosion	Area	811092.5	824888.4	78.6	169.5	5	0.5	33.45	24 hours	2.70E-06	2.70E-06	1.27E-06	1.27E-06	1.93E-07	1.93E-07
SP3a	Material Handling	Area	811069.7	825108.6	10	10	5	20	0	0830-1900	1.05E-04	0.00E+00	4.96E-05	0.00E+00	7.52E-06	0.00E+00
SP3b	Material Handling	Area	811046.5	825108.2	10	10	5	0.5	0	0700-2300 (daytime) 2300-0700 (nighttime)	5.56E-05	5.56E-05	2.63E-05	2.63E-05	3.98E-06	3.98E-06
SP3c	Material Handling	Area	811232.8	825217.3	10	10	5	30	0	0830-1900	8.07E-07	0.00E+00	3.82E-07	0.00E+00	5.78E-08	0.00E+00
SP3d	Material Handling	Area	810991.5	825201.1	10	10	5	0.5	0	0700-2300 (daytime) 2300-0700 (nighttime)	3.39E-05	3.39E-05	1.60E-05	1.60E-05	2.43E-06	2.43E-06
C&DMSF_S	Material Screening	Area	811165.8	824903.1	10	10	5	5	0	0800-2000	1.78E-04	0.00E+00	6.00E-05	0.00E+00	4.05E-06	0.00E+00
C&DMSF_H	Material Handling	Area	811165.8	824903.1	10	10	5	0.5	0	0800-2000	3.46E-06	0.00E+00	1.64E-06	0.00E+00	2.48E-07	0.00E+00
NSA_S	Material Screening	Area	810860.3	825087.9	10	10	5	5	0	0700-2300 (daytime) 2300-0700 (nighttime)	1.75E-03	1.75E-03	5.88E-04	5.88E-04	3.97E-05	3.97E-05
NSA_H	Material Handling	Area	810860.3	825087.9	10	10	5	0.5	0	0700-2300 (daytime) 2300-0700 (nighttime)	3.39E-05	3.39E-05	1.60E-05	1.60E-05	2.43E-06	2.43E-06
IB1	Material Handling	Area	810853.6	824979.3	10	10	5	0.5	124.37	0700-2300	7.41E-06	0.00E+00	3.50E-06	0.00E+00	5.31E-07	0.00E+00
IB2	Material Handling	Area	810989.7	824887.2	10	10	5	0.5	124.37	0700-2300	7.41E-06	0.00E+00	3.50E-06	0.00E+00	5.31E-07	0.00E+00
B1	Material Handling	Area	811057.5	824841.8	10	10	5	0.5	124.37	0700-2300 (daytime) 2300-0700 (nighttime)	2.78E-05	2.78E-05	1.31E-05	1.31E-05	1.99E-06	1.99E-06

**Annex A1 - TSP, RSP and FSP Emission Inventory for Dust Emission Sources within TMFB**

Source ID	Description	Source Type	Coordinates		Dimension/ Coordinates		Base Elevation	Height	Angle/ Width	Working Hour <sup>(a)</sup>	TSP Emission Rate		RSP Emission Rate		FSP Emission Rate	
			X1	Y1	X2	Y2					Working Hours	Non-working Hours / Nighttime Working Hours	Working Hours	Non-working Hours / Nighttime Working Hours	Working Hours	Non-working Hours / Nighttime Working Hours
			m	m	m	m					m	m	deg / m	g/m2/s	g/m2/s	g/m2/s
B2	Material Handling	Area	810921.9	824932.6	10	10	5	0.5	124.37	0700-2300 (daytime) 2300-0700 (nighttime)	2.78E-05	2.78E-05	1.31E-05	1.31E-05	1.99E-06	1.99E-06
B3	Material Handling	Area	810785.3	825025.9	10	10	5	0.5	124.37	0700-2300 (daytime) 2300-0700 (nighttime)	3.39E-05	3.39E-05	1.60E-05	1.60E-05	2.43E-06	2.43E-06
R1	Road dust	Area	811291.1	825571.1	8	67.67	5	0.5	65	0830-1900	1.40E-04	0.00E+00	2.69E-05	0.00E+00	6.51E-06	0.00E+00
R2	Road dust	Area	811183.1	825621.3	8	122	5	0.5	114	0830-1900	1.40E-04	0.00E+00	2.69E-05	0.00E+00	6.51E-06	0.00E+00
R3	Road dust	Area	811088.2	825614.2	8	93.05	5	0.5	85	0830-1900	1.40E-04	0.00E+00	2.69E-05	0.00E+00	6.51E-06	0.00E+00
R4	Road dust	Area	811092.5	825610.7	8	149	5	0.5	174	0830-1900	1.40E-04	0.00E+00	2.69E-05	0.00E+00	6.51E-06	0.00E+00
R5	Road dust	Area	811105.7	825466.1	8	123.1	5	10	120.78	0830-1900	1.40E-04	0.00E+00	2.69E-05	0.00E+00	6.51E-06	0.00E+00
R6	Road dust	Area	811111.3	825207.1	8	216.7	5	20	25.9608	0830-1900	1.40E-04	0.00E+00	2.69E-05	0.00E+00	6.51E-06	0.00E+00
R7	Road dust	Area	811069.3	825120.8	8	96.33	5	20	25.9608	0830-1900	1.39E-04	0.00E+00	2.67E-05	0.00E+00	6.46E-06	0.00E+00
R8	Road dust	Area	810950.4	824972.6	8	173.14	5	0.5	35	0700-2300 (daytime) 2300-0700 (nighttime)	7.27E-05	7.27E-05	1.39E-05	1.39E-05	3.37E-06	3.37E-06
R9	Road dust	Area	811116.0	825209.2	8	131.7	5	30	105.942	0830-1900	1.05E-06	0.00E+00	2.02E-07	0.00E+00	4.90E-08	0.00E+00
R11	Road dust	Area	810897.5	825096.4	8	140.469	5	0.5	38	0700-2300 (daytime) 2300-0700 (nighttime)	4.43E-05	4.43E-05	8.50E-06	8.50E-06	2.06E-06	2.06E-06
R14	Road dust	Area	810922.7	824932.1	8	49.0764	5	0.5	35	0700-2300 (daytime) 2300-0700 (nighttime)	3.63E-05	3.63E-05	6.97E-06	6.97E-06	1.69E-06	1.69E-06
R15	Road dust	Area	811058.3	824841.3	8	50.3578	5	0.5	35	0700-2300 (daytime) 2300-0700 (nighttime)	3.63E-05	3.63E-05	6.97E-06	6.97E-06	1.69E-06	1.69E-06
R17	Road dust	Area	810955.9	824973.7	8	163.201	5	0.5	123	0700-2300 (daytime) 2300-0700 (nighttime)	3.63E-05	3.63E-05	6.97E-06	6.97E-06	1.69E-06	1.69E-06
R25	Road dust	Area	811175.0	824926.1	8	64.56	5	0.5	27	0800-2000	9.23E-06	0.00E+00	1.77E-06	0.00E+00	4.28E-07	0.00E+00
R26	Road dust	Area	811210.1	824984.9	8	38.37	5	0.5	117	0800-2000	9.23E-06	0.00E+00	1.77E-06	0.00E+00	4.28E-07	0.00E+00
R27	Road dust	Area	811238.6	824965.2	8	291	5	0.5	22	0800-2000	9.23E-06	0.00E+00	1.77E-06	0.00E+00	4.28E-07	0.00E+00
R28	Road dust	Area	811349.8	825234.0	8	355.3	5	0.5	22	0800-2000	9.23E-06	0.00E+00	1.77E-06	0.00E+00	4.28E-07	0.00E+00

**Note:**

- (a) TMFB is operational on all days
- (b) Dry deposition was considered for fugitive dust sources (i.e. wind erosion, material handling/screening/crushing and haul roads) based on the particle size distributions of the respective dust sources
- (c) The highest point of the stockpiling areas A001 and A002 is approximately 30m. On average, the height of the stockpiling areas A001 and A002 was assumed to be 15m which was adopted in the model



## Annex A1 - Mass Fractions of Particle Sizes for Dust Sources

### Material Handling and Wind Erosion

Particle Size ( $\mu\text{m}$ )	Average Particle Size ( $\mu\text{m}$ )	Mass Fraction		
		TSP	RSP	FSP
2.5	1.25	0.07	0.15	1
5	3.75	0.2	0.42	-
10	7.5	0.2	0.43	-
15	12.5	0.18	-	-
30	22.5	0.35	-	-

Reference: AP-42, Section 13.2.4 (Edition 11/06)

### Material Screening

Particle Size ( $\mu\text{m}$ )	Average Particle Size ( $\mu\text{m}$ )	Mass Fraction		
		TSP	RSP	FSP
2.5	1.25	0.02	0.07	1
10	6.25	0.31	0.93	-
30	20	0.67	-	-

Reference: AP-42, Table 11.19.2-1, Screening (controlled)

### Haul Road

Particle Size ( $\mu\text{m}$ )	Average Particle Size ( $\mu\text{m}$ )	Mass Fraction		
		TSP	RSP	FSP
2.5	1.25	0.04	0.24	1
10	6.25	0.15	0.76	-
15	12.5	0.05	-	-
30	22.5	0.76	-	-

Reference: AP-42 Section 13.2.1 (Edition 1/11)

## Annex A1 - NOx, SO2, RSP and FSP Emission Rate Calculations for Marine Vessels and Generator Emissions

Item	Source	Pollutant	Parameters	Value	Unit	Unmitigated	Emission Rate	Unit	Reference
1	Berthing emissions from Barge		Average Engine Power (Barge)	50	kW				Provided by CEDD
			Auxiliary Engine Load factor	0.43					Table 4.10, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		NOx	Emission Factor	10	g/kWh	5.97E-02	5.97E-02	g/s	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		SO2	Emission Factor	0.208	g/kWh	1.24E-03	1.24E-03	g/s	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD Fuel for local vessels in Hong Kong has sulphur content limited to 0.05% under the Air Pollution Control (Marine Light Diesel) Regulation
		RSP	Emission Factor	0.4	g/kWh	2.39E-03	2.39E-03	g/s	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		FSP	Emission Factor	0.39	g/kWh	2.33E-03	2.33E-03	g/s	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
2	Berthing emissions from Derrick Lighter		Average Auxiliary Engine Power (Derrick Lighter)	270	kW				Provided by CEDD
			Auxiliary Engine Load Factor	0.43					Table 4.10, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		NOx	Emission Factor	10	g/kWh	3.23E-01	3.23E-01	g/s	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		SO2	Emission Factor	0.208	g/kWh	6.71E-03	6.71E-03	g/s	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD Fuel for local vessels in Hong Kong has sulphur content limited to 0.05% under the Air Pollution Control (Marine Light Diesel) Regulation
		RSP	Emission Factor	0.4	g/kWh	1.29E-02	1.29E-02	g/s	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		FSP	Emission Factor	0.39	g/kWh	1.26E-02	1.26E-02	g/s	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
3	Maneuvering (tugboat)		Average Engine Power (tugboat)	392	kW				Provided by CEDD
			Main Engine Load factor	0.3					Table 4.7, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		NOx	Emission Factor	13.2	g/kWh	4.31E-01	4.31E-01	g/s	Table 4.16, Main Engine (Cat.2), Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		SO2	Emission Factor	0.208	g/kWh	6.79E-03	6.79E-03	g/s	Table 4.16, Main Engine (Cat.2), Study on Marine Vessels Emission Inventory Final Report 2012, EPD Fuel for local vessels in Hong Kong has sulphur content limited to 0.05% under the Air Pollution Control (Marine Light Diesel) Regulation
		RSP	Emission Factor	0.72	g/kWh	2.35E-02	2.35E-02	g/s	Table 4.16, Main Engine (Cat.2), Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		FSP	Emission Factor	0.7	g/kWh	2.29E-02	2.29E-02	g/s	Table 4.16, Main Engine (Cat.2), Study on Marine Vessels Emission Inventory Final Report 2012, EPD
4	Maneuvering (Barge)		Average Main Engine Power (Barge)	1100	kW				Provided by CEDD
			Main Engine Load factor	0.3					Table 4.7, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		NOx	Emission Factor	10	g/kWh	9.17E-01	9.17E-01	g/s	Table 4.16, Main Engine (Cat.1), Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		SO2	Emission Factor	0.208	g/kWh	1.91E-02	1.91E-02	g/s	Table 4.16, Main Engine (Cat.1), Study on Marine Vessels Emission Inventory Final Report 2012, EPD Fuel for local vessels in Hong Kong has sulphur content limited to 0.05% under the Air Pollution Control (Marine Light Diesel) Regulation
		RSP	Emission Factor	0.3	g/kWh	2.75E-02	2.75E-02	g/s	Table 4.16, Main Engine (Cat.1), Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		FSP	Emission Factor	0.29	g/kWh	2.66E-02	2.66E-02	g/s	Table 4.16, Main Engine (Cat.1), Study on Marine Vessels Emission Inventory Final Report 2012, EPD
5	C&DMSF Generator		Max Fuel Consumption Rate	25	L/hr				Provided by CEDD
		NOx	Emission Factor	2.4	g/L	1.67E-02	1.67E-02	g/s	A Guide to Air Pollution Control (Fuel Restriction) Regulation and its Amendment of 2008
		SO2	Emission Factor	0.0852	g/L	5.92E-04	5.92E-04	g/s	AP-42 Vol. 1, Section 1.3 "Fuel Oil Combustion", Table 1.3-1 and 1.3-6 (Distillate Oil). Sulphur content is 0.005% for ULSD
		RSP	Emission Factor	0.12	g/L	8.33E-04	8.33E-04	g/s	A Guide to Air Pollution Control (Fuel Restriction) Regulation and its Amendment of 2008
		FSP	Emission Factor	0.03	g/L	2.08E-04	2.08E-04	g/s	AP-42 Vol. 1, Section 1.3 "Fuel Oil Combustion", Table 1.3-1 and 1.3-6 (Distillate Oil).

## Annex A1 - NOx, SO2, RSP and FSP Emission Rate Calculations for Marine Vessels and Generator Emissions

6	NSA Generators (500kW) (2 nos)		Max Fuel Consumption Rate	140	L/hr				Provided by CEDD
		NOx	Emission Factor	2.4	g/L	9.33E-02	9.33E-02	g/s	A Guide to Air Pollution Control (Fuel Restriction) Regulation and its Amendment of 2008
		SO2	Emission Factor	0.0852	g/L	3.31E-03	3.31E-03	g/s	AP-42 Vol. 1, Section 1.3 "Fuel Oil Combustion", Table 1.3-1 and 1.3-6 (Distillate Oil). Sulphur content is 0.005% for ULSD
		RSP	Emission Factor	0.12	g/L	4.67E-03	4.67E-03	g/s	A Guide to Air Pollution Control (Fuel Restriction) Regulation and its Amendment of 2008
		FSP	Emission Factor	0.03	g/L	1.17E-03	1.17E-03	g/s	AP-42 Vol. 1, Section 1.3 "Fuel Oil Combustion", Table 1.3-1 and 1.3-6 (Distillate Oil).
	NSA Generators (100kW) (1 no)		Max Fuel Consumption Rate	31	L/hr				Provided by CEDD
		NOx	Emission Factor	2.4	g/L	2.07E-02	2.07E-02	g/s	A Guide to Air Pollution Control (Fuel Restriction) Regulation and its Amendment of 2008
		SO2	Emission Factor	0.0852	g/L	7.34E-04	7.34E-04	g/s	AP-42 Vol. 1, Section 1.3 "Fuel Oil Combustion", Table 1.3-1 and 1.3-6 (Distillate Oil). Sulphur content is 0.005% for ULSD
		RSP	Emission Factor	0.12	g/L	1.03E-03	1.03E-03	g/s	A Guide to Air Pollution Control (Fuel Restriction) Regulation and its Amendment of 2008
FSP		Emission Factor	0.03	g/L	2.58E-04	2.58E-04	g/s	AP-42 Vol. 1, Section 1.3 "Fuel Oil Combustion", Table 1.3-1 and 1.3-6 (Distillate Oil).	

Annex A1 - Emission Inventory for Marine Vessels and Generator Emissions (for assessment except annual NO2)

Source ID	Description	Source Type	Coordinates		Base Elevation	Height	Stack Temp	Stack Velocity	Stack Diameter	Working Hour	NOx Emission Rate		SO2 Emission Rate		RSP Emission Rate		FSP Emission Rate		
			X1	Y1							Working Hours	Non-working / Nighttime Working Hours	Working Hours	Non-working / Nighttime Working Hours	Working Hours	Non-working / Nighttime Working Hours	Working Hours	Non-working / Nighttime Working Hours	
			m	m							m/s	m	g/s	g/s	g/s	g/s	g/s	g/s	g/s
B1_B	Berthing	Point	811058.8	824834.9	0	15	803	0.3	24	hours	5.97E-02	5.97E-02	1.24E-03	1.24E-03	2.39E-03	2.39E-03	2.33E-03	2.33E-03	
B2_B	Berthing	Point	810923.2	824925.7	0	15	803	0.3	24	hours	5.97E-02	5.97E-02	1.24E-03	1.24E-03	2.39E-03	2.39E-03	2.33E-03	2.33E-03	
B3_B	Berthing	Point	810786.6	825019.0	0	15	803	0.3	24	hours	5.97E-02	5.97E-02	1.24E-03	1.24E-03	2.39E-03	2.39E-03	2.33E-03	2.33E-03	
IB1_B	Berthing	Point	810853.6	824979.3	0	9	795	0.15	07:00-23:00	24	hours	3.23E-01	0.00E+00	6.71E-03	0.00E+00	1.29E-02	0.00E+00	1.26E-02	0.00E+00
IB2_B	Berthing	Point	810989.7	824887.2	0	9	795	0.15	07:00-23:00	24	hours	3.23E-01	0.00E+00	6.71E-03	0.00E+00	1.29E-02	0.00E+00	1.26E-02	0.00E+00
M1	Maneuvering	Point	810905.9	824905.6	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M2	Maneuvering	Point	810900.1	824885.7	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M3	Maneuvering	Point	810894.3	824865.9	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M4	Maneuvering	Point	810891.9	824845.1	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M5	Maneuvering	Point	810890.9	824824.4	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M6	Maneuvering	Point	810889.9	824803.4	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M7	Maneuvering	Point	810892.0	824782.8	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M8	Maneuvering	Point	810896.1	824762.3	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M9	Maneuvering	Point	810900.2	824742.0	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M10	Maneuvering	Point	810908.8	824722.8	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M11	Maneuvering	Point	810917.5	824703.7	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M12	Maneuvering	Point	810926.1	824684.9	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M13	Maneuvering	Point	810936.2	824666.6	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M14	Maneuvering	Point	810946.2	824648.0	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M15	Maneuvering	Point	810957.0	824630.3	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M16	Maneuvering	Point	810968.6	824612.9	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M17	Maneuvering	Point	810980.3	824595.4	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M18	Maneuvering	Point	810991.9	824578.3	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M19	Maneuvering	Point	811004.6	824561.5	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M20	Maneuvering	Point	811017.2	824544.8	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M21	Maneuvering	Point	811030.0	824528.5	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M22	Maneuvering	Point	811044.0	824512.9	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M23	Maneuvering	Point	811058.1	824497.2	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M24	Maneuvering	Point	811072.1	824481.6	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M25	Maneuvering	Point	811086.6	824466.9	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M26	Maneuvering	Point	811101.5	824452.1	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M27	Maneuvering	Point	811116.3	824437.2	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M28	Maneuvering	Point	811131.1	824422.7	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M29	Maneuvering	Point	811146.2	824408.1	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M30	Maneuvering	Point	811161.2	824393.5	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M31	Maneuvering	Point	811176.3	824379.2	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M32	Maneuvering	Point	811191.5	824364.9	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M33	Maneuvering	Point	811206.8	824350.8	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M34	Maneuvering	Point	811222.8	824337.2	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M35	Maneuvering	Point	811237.7	824324.5	0	9	795	0.15	07:00-23:00	24	hours	1.23E-02	0.00E+00	1.94E-04	0.00E+00	6.72E-04	0.00E+00	6.53E-04	0.00E+00
M36	Maneuvering	Point	810906.9	824905.6	0	15	803	0.3	24	hours	2.55E-02	2.55E-02	5.30E-04	5.30E-04	7.64E-04	7.64E-04	7.38E-04	7.38E-04	
M37	Maneuvering	Point	810899.9	824892.0	0	15	803	0.3	24	hours	2.55E-02	2.55E-02	5.30E-04	5.30E-04	7.64E-04	7.64E-04	7.38E-04	7.38E-04	
M38	Maneuvering	Point	810892.9	824878.4	0	15	803	0.3	24	hours	2.55E-02	2.55E-02	5.30E-04	5.30E-04	7.64E-04	7.64E-04	7.38E-04	7.38E-04	
M39	Maneuvering	Point	810885.9	824873.9	0	15	803	0.3	24	hours	2.55E-02	2.55E-02	5.30E-04	5.30E-04	7.64E-04	7.64E-04	7.38E-04	7.38E-04	
M40	Maneuvering	Point	810833.7	824869.4	0	15	803	0.3	24	hours	2.55E-02	2.55E-02	5.30E-04	5.30E-04	7.64E-04	7.64E-04	7.38E-04	7.38E-04	
M41	Maneuvering	Point	810813.0	824865.9	0	15	803	0.3	24	hours	2.55E-02	2.55E-02	5.30E-04	5.30E-04	7.64E-04	7.64E-04	7.38E-04	7.38E-04	
M42	Maneuvering	Point	810792.4	824864.8	0	15	803	0.3	24	hours	2.55E-02	2.55E-02	5.30E-04	5.30E-04	7.64E-04	7.64E-04	7.38E-04	7.38E-04	
M43	Maneuvering	Point	810771.4	824864.2	0	15	803	0.3	24	hours	2.55E-02	2.55E-02	5.30E-04	5.30E-04	7.64E-04	7.64E-04	7.38E-04	7.38E-04	
M44	Maneuvering	Point	810750.1	824863.6	0	15	803	0.3	24	hours	2.55E-02	2.55E-02	5.30E-04	5.30E-04	7.64E-04	7.64E-04	7.38E-04	7.38E-04	
M45	Maneuvering	Point	810729.7	824863.2	0	15	803	0.3	24	hours	2.55E-02	2.55E-02	5.30E-04	5.30E-04	7.64E-04	7.64E-04	7.38E-04	7.38E-04	
M46	Maneuvering	Point	810708.7	824862.7	0	15	803	0.3	24	hours	2.55E-02	2.55E-02	5.30E-04	5.30E-04	7.64E-04	7.64E-04	7.38E-04	7.38E-04	
M47	Maneuvering	Point	810687.7	824862.2	0	15	8												

Annex A1 - Emission Inventory for Marine Vessels and Generator Emissions (for annual NO2 assessment)

Source ID	Description	Source Type	Coordinates		Base Elevation	Height	Stack Temp	Stack Velocity	Stack Diameter	Working Hour	NOx Emission Rate	
			X1	Y1							Working Hours	Non-working Hours / Nighttime Working Hours
			m	m								
B1 B	Berthing	Point	811058.8	824834.9	0	15	803	8	0.3	0700-2300 (daytime)	3.73E-02	4.48E-02
B2 B	Berthing	Point	810923.2	824925.7	0	15	803	8	0.3	2300-0700 (nighttime)	3.73E-02	4.48E-02
B3 B	Berthing	Point	810786.6	825019.0	0	15	803	8	0.3		3.73E-02	4.48E-02
IB1 B	Berthing	Point	810853.6	824979.3	0	9	795	8	0.15	0700-2300	1.01E-02	0.00E+00
IB2 B	Berthing	Point	810989.7	824887.2	0	9	795	8	0.15	0700-2300	1.01E-02	0.00E+00
M1	Maneuvering	Point	810906.9	824905.6	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M2	Maneuvering	Point	810900.1	824885.7	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M3	Maneuvering	Point	810894.3	824865.9	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M4	Maneuvering	Point	810891.9	824845.1	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M5	Maneuvering	Point	810890.9	824824.4	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M6	Maneuvering	Point	810890.9	824803.4	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M7	Maneuvering	Point	810892.0	824782.8	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M8	Maneuvering	Point	810896.1	824762.3	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M9	Maneuvering	Point	810900.2	824742.0	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M10	Maneuvering	Point	810908.8	824722.8	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M11	Maneuvering	Point	810917.5	824703.7	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M12	Maneuvering	Point	810926.1	824684.9	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M13	Maneuvering	Point	810936.2	824666.4	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M14	Maneuvering	Point	810946.2	824648.0	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M15	Maneuvering	Point	810957.0	824630.3	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M16	Maneuvering	Point	810968.6	824612.9	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M17	Maneuvering	Point	810980.3	824595.4	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M18	Maneuvering	Point	810991.9	824578.3	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M19	Maneuvering	Point	811004.6	824561.5	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M20	Maneuvering	Point	811017.2	824544.8	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M21	Maneuvering	Point	811030.0	824528.5	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M22	Maneuvering	Point	811044.0	824512.9	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M23	Maneuvering	Point	811058.1	824497.2	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M24	Maneuvering	Point	811072.1	824481.6	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M25	Maneuvering	Point	811086.6	824466.9	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M26	Maneuvering	Point	811101.5	824452.1	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M27	Maneuvering	Point	811116.3	824437.2	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M28	Maneuvering	Point	811131.1	824422.7	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M29	Maneuvering	Point	811146.2	824408.1	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M30	Maneuvering	Point	811161.2	824393.5	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M31	Maneuvering	Point	811176.3	824379.2	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M32	Maneuvering	Point	811191.6	824364.9	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M33	Maneuvering	Point	811206.8	824350.8	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M34	Maneuvering	Point	811222.8	824337.2	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M35	Maneuvering	Point	811237.7	824324.5	0	9	795	8	0.15	0700-2300	1.23E-04	0.00E+00
M36	Maneuvering	Point	810906.9	824905.6	0	15	803	8	0.3	0700-2300 (daytime) 2300-0700 (nighttime)	9.55E-03	1.27E-02
M37	Maneuvering	Point	810890.9	824892.0	0	15	803	8	0.3		9.55E-03	1.27E-02
M38	Maneuvering	Point	810873.5	824881.4	0	15	803	8	0.3		9.55E-03	1.27E-02
M39	Maneuvering	Point	810853.9	824873.9	0	15	803	8	0.3		9.55E-03	1.27E-02
M40	Maneuvering	Point	810833.7	824869.4	0	15	803	8	0.3		9.55E-03	1.27E-02
M41	Maneuvering	Point	810813.0	824865.9	0	15	803	8	0.3		9.55E-03	1.27E-02
M42	Maneuvering	Point	810792.4	824864.8	0	15	803	8	0.3		9.55E-03	1.27E-02
M43	Maneuvering	Point	810771.4	824864.2	0	15	803	8	0.3		9.55E-03	1.27E-02
M44	Maneuvering	Point	810750.7	824863.6	0	15	803	8	0.3		9.55E-03	1.27E-02
M45	Maneuvering	Point	810729.7	824863.2	0	15	803	8	0.3		9.55E-03	1.27E-02
M46	Maneuvering	Point	810708.7	824862.7	0	15	803	8	0.3		9.55E-03	1.27E-02
M47	Maneuvering	Point	810687.7	824862.2	0	15	803	8	0.3		9.55E-03	1.27E-02
M48	Maneuvering	Point	810667.0	824862.5	0	15	803	8	0.3		9.55E-03	1.27E-02
M49	Maneuvering	Point	810646.0	824863.0	0	15	803	8	0.3		9.55E-03	1.27E-02
M50	Maneuvering	Point	810625.0	824863.6	0	15	803	8	0.3		9.55E-03	1.27E-02
M51	Maneuvering	Point	810604.3	824864.0	0	15	803	8	0.3		9.55E-03	1.27E-02
M52	Maneuvering	Point	810583.3	824864.5	0	15	803	8	0.3		9.55E-03	1.27E-02
M53	Maneuvering	Point	810562.3	824864.9	0	15	803	8	0.3		9.55E-03	1.27E-02
M54	Maneuvering	Point	810541.4	824865.3	0	15	803	8	0.3		9.55E-03	1.27E-02
M55	Maneuvering	Point	810520.8	824867.9	0	15	803	8	0.3		9.55E-03	1.27E-02
M56	Maneuvering	Point	810500.0	824870.6	0	15	803	8	0.3		9.55E-03	1.27E-02
M57	Maneuvering	Point	810479.8	824875.0	0	15	803	8	0.3		9.55E-03	1.27E-02
M58	Maneuvering	Point	810459.6	824880.8	0	15	803	8	0.3		9.55E-03	1.27E-02
M59	Maneuvering	Point	810439.8	824886.7	0	15	803	8	0.3		9.55E-03	1.27E-02
M60	Maneuvering	Point	810420.7	824895.3	0	15	803	8	0.3		9.55E-03	1.27E-02
M61	Maneuvering	Point	810401.5	824904.0	0	15	803	8	0.3		9.55E-03	1.27E-02
M62	Maneuvering	Point	810382.9	824913.0	0	15	803	8	0.3		9.55E-03	1.27E-02
M63	Maneuvering	Point	810364.4	824922.9	0	15	803	8	0.3		9.55E-03	1.27E-02
M64	Maneuvering	Point	810345.8	824932.7	0	15	803	8	0.3		9.55E-03	1.27E-02
M65	Maneuvering	Point	810328.1	824943.4	0	15	803	8	0.3		9.55E-03	1.27E-02
M66	Maneuvering	Point	810310.3	824954.5	0	15	803	8	0.3	9.55E-03	1.27E-02	
M67	Maneuvering	Point	810292.7	824965.4	0	15	803	8	0.3	9.55E-03	1.27E-02	
M68	Maneuvering	Point	810275.0	824976.7	0	15	803	8	0.3	9.55E-03	1.27E-02	
M69	Maneuvering	Point	810257.7	824988.0	0	15	803	8	0.3	9.55E-03	1.27E-02	
M70	Maneuvering	Point	810241.6	825001.5	0	15	803	8	0.3	9.55E-03	1.27E-02	
M71	Maneuvering	Point	810237.6	825004.9	0	15	803	8	0.3	9.55E-03	1.27E-02	
Gen B	C&DMSF Generator	Point	811165.8	824903.1	5	1.5	362	56.6	0.075	0800-2000	1.67E-02	0.00E+00
B	Berthing	Point	811247.7	824794.9	0	9	795	8	0.15	0700-2300	2.26E-02	0.00E+00
C1	Maneuvering	Point	811110.4	824767.0	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C2	Maneuvering	Point	811096.8	824752.4	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C3	Maneuvering	Point	811083.1	824737.7	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C4	Maneuvering	Point	811069.5	824723.1	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C5	Maneuvering	Point	811054.7	824709.7	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C6	Maneuvering	Point	811039.5	824696.7	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C7	Maneuvering	Point	811024.3	824683.7	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C8	Maneuvering	Point	811009.0	824670.8	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C9	Maneuvering	Point	810990.3	824663.7	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C10	Maneuvering	Point	810971.6	824656.6	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C11												

**Annex A1 - Emission Inventory for Marine Vessels and Generator Emissions (for annual NO2 assessment)**

Source ID	Description	Source Type	Coordinates		Base Elevation	Height	Stack Temp	Stack Velocity	Stack Diameter	Working Hour	NOx Emission Rate	
			X1	Y1							Working Hours	Non-working Hours / Nighttime Working Hours
			m	m								
C27	Maneuvering	Point	810636.9	824618.2	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C28	Maneuvering	Point	810616.9	824618.7	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C29	Maneuvering	Point	810596.9	824619.1	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C30	Maneuvering	Point	810576.9	824619.5	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C31	Maneuvering	Point	810556.9	824619.9	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C32	Maneuvering	Point	810536.9	824620.4	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C33	Maneuvering	Point	810517.0	824621.4	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C34	Maneuvering	Point	810497.1	824623.9	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C35	Maneuvering	Point	810477.3	824626.5	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C36	Maneuvering	Point	810457.5	824629.1	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C37	Maneuvering	Point	810437.7	824632.1	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C38	Maneuvering	Point	810418.5	824637.6	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C39	Maneuvering	Point	810415.8	824638.4	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
Gen1	NSA Generator (500kW)	Point	810862.6	825045.8	5	2.5	766	98.8	0.16	24 hours	9.33E-02	9.33E-02
Gen2	NSA Generator (500kW)	Point	810862.6	825045.8	5	2.5	766	98.8	0.16	24 hours	9.33E-02	9.33E-02
Gen3	NSA Generator (100 kW)	Point	810862.6	825045.8	5	2.12	756	29.5	0.11	24 hours	2.07E-02	2.07E-02

**Note:**

- (a) Based on information provided by CEDD, the following assumptions have been adopted to estimate annual barge emissions associated with TMFB operation:
- Daytime period (0700-2300):
    - On average annually, barge at berth for 10 hour/day at B1, B2 and B3;
    - On average annually, barge maneuvering for 6 hours/day;
    - On average annually, derrick lighter at berth for 6% of the time (i.e. 0.5 hour/day at IB1 and IB2);
    - On average annually, tugboat maneuvering for 1% of the time (i.e. 0.16 hour/day).
  - Nighttime period (2300-0700):
    - The barge will be at berth B1, B2 and B3 for 6 hours each night.
    - Barge maneuvering time is 4 hours each night.
- (b) The berth at the C&DMSF will not be used for TMFB operation during the extended operation (i.e. 2019-2023). However, the berth may be used by the Development of Kwu Tung North and Fanling North Project tentatively from 2020 to 2023 as barging point for bridge segments. Frequency of berthing is assumed to be 2 times/week during the period of 0700-2300 (assuming 4hours per berthing).
- It is assumed that there will be 2 trips of about 80 minutes of maneuvering time each week (i.e. 1.33 hours/week = 1% of the time), equivalent to about 0.16 hours/day from 0700-2300 on an annual basis.
  - It is assumed that the derrick lighter will be at berth for 4 hours per berthing (i.e. 8 hours/week = 7% of the time), equivalent to about 1.12 hours/day from 0700-2300 on an annual basis.

Annex A2

# Emission Inventory of Adjacent Industrial Emission Sources

**Annex A2 - Emission Inventory for Stack Emission Sources in the Vicinity of TMFE**

Sources	Model Input ID	X	Y	Elevation	RSP Emission	FSP Emission	NOx Emission	SO2 Emission	Discharge Height	Temp	Exit Velocity	Exit Diameter	Operation Hour
				m	g/s	g/s	g/s	g/s	m	K	m/s	m	
Green Island Cement	G1	810021.8	825547.4	0	0.17944	0.17944			17.2	0	6.5	1.95	24 hours
Green Island Cement	G2	810032.1	825542.4	0	0.17944	0.17944			17.2	0	6.5	1.95	24 hours
Green Island Cement	G3	810088.4	825511.2	0	0.02389	0.02389			16	0	16.8	0.44	24 hours
Green Island Cement	G4	810187.9	825609.7	0	0.04806	0.04806			30	0	18.1	0.60	24 hours
Green Island Cement	G5	810142.3	825556.0	0	0.04806	0.04806			32	0	14.9	0.67	24 hours
Green Island Cement	G6	810188.5	825602.5	0	0.08694	0.08694			39.1	0	21.4	0.75	24 hours
Green Island Cement	G7	810175.4	825610.7	0	0.01528	0.01528			32.8	0	17.9	0.34	24 hours
Green Island Cement	G8	810193.5	825587.0	0	0.01194	0.01194			17.6	0	10.6	0.39	24 hours
Green Island Cement	G9	810171.7	825752.4	0	0.03972	0.03972			59.8	343	19.2	0.58	24 hours
Green Island Cement	G10	810168.4	825764.6	0	0.00417	0.00417			17	343	13.6	0.22	24 hours
Green Island Cement	G11	810369.3	825839.0	0	0.01806	0.01806			24.5	0	21.9	0.34	24 hours
Green Island Cement	G12	810373.4	825838.0	0	0.02250	0.02250			39.2	0	19.9	0.39	24 hours
Green Island Cement	G13	810369.2	825864.0	0	0.01444	0.01444			61.1	0	17.3	0.34	24 hours
Green Island Cement	G14	810344.1	825880.2	0	0.05472	0.05472			61.1	0	20.8	0.60	24 hours
Green Island Cement	G15	810413.4	825873.1	0	0.14917	0.14917			24.5	366	34.3	0.86	24 hours
Green Island Cement	G16	810372.9	825862.8	0	0.05056	0.05056			34.4	366	24.0	0.60	24 hours
Green Island Cement	G17	810389.9	825914.8	0	0.14917	0.14917			25.5	366	34.3	0.86	24 hours
Green Island Cement	G18	810366.7	825873.4	0	0.04806	0.04806			34.4	366	22.8	0.60	24 hours
Green Island Cement	G19	810364.4	825877.3	0	0.00611	0.00611			25.5	343	20.6	0.21	24 hours
Green Island Cement	G20	810388.9	825914.2	0	0.14917	0.14917			24.5	366	34.3	0.86	24 hours
Green Island Cement	G21	810356.1	825891.6	0	0.04806	0.04806			34.4	366	22.8	0.60	24 hours
Green Island Cement	G22	810213.0	825975.3	0	0.06778	0.06778			85.7	333	22.7	0.68	24 hours
Green Island Cement	G23	810220.6	825966.7	0	0.05833	0.05833			85.7	333	19.6	0.68	24 hours
Green Island Cement	G24	810203.8	825973.9	0	0.05833	0.05833			85.7	333	19.6	0.68	24 hours
Green Island Cement	G25	810212.5	825950.6	0	0.05833	0.05833			85.7	333	19.6	0.68	24 hours
Green Island Cement	G26	810202.5	825971.4	0	0.01944	0.01944			85.7	333	18.2	0.41	24 hours
Green Island Cement	G27	810232.2	825930.9	0	0.03750	0.03750			30.3	333	18.4	0.60	24 hours
Green Island Cement	G28	810216.2	825921.7	0	0.03750	0.03750			30.3	333	18.4	0.60	24 hours
Green Island Cement	G29	810192.2	825962.5	0	0.01944	0.01944			13	333	10.3	0.54	24 hours
Green Island Cement	G30	810195.2	825957.4	0	0.01944	0.01944			13	333	10.3	0.54	24 hours
Green Island Cement	G31	810198.3	825951.9	0	0.03694	0.03694			13	333	19.4	0.54	24 hours
Green Island Cement	G32	810201.2	825947.0	0	0.03694	0.03694			13	333	19.4	0.54	24 hours
Green Island Cement	G33	809940.1	825669.1	0	0.01472	0.01472			16.9	333	20.7	0.33	24 hours
Green Island Cement	G34	809935.3	825692.2	0	0.03556	0.03556			29	333	18.7	0.54	24 hours
Green Island Cement	G35	810223.6	825926.0	0	0.04528	0.04528			30.2	333	19.2	0.60	24 hours
Green Island Cement	G36	810359.9	825885.2	0	0.01194	0.01194			20	366	11.7	0.42	24 hours
Green Island Cement	G39	810150.8	825630.4	0	0.01528	0.01528			28.6	0	16.8	0.36	24 hours
Green Island Cement	G40	810244.9	825722.8	0	0.01111	0.01111			57.6	0	17.6	0.29	24 hours
Green Island Cement	G41	810228.0	825742.9	0	0.03861	0.03861			40.3	343	19.9	0.56	24 hours
Green Island Cement	G42	810192.1	825701.2	0	0.04139	0.04139			45.7	343	17.9	0.61	24 hours
Green Island Cement	G43	810175.5	825730.0	0	0.02306	0.02306			53.3	343	18.3	0.45	24 hours
Green Island Cement	G44	810198.8	825745.2	0	0.06472	0.06472			53.8	343	18.1	0.76	24 hours
Green Island Cement	G45	810189.3	825704.2	0	0.00806	0.00806			35.5	343	19.1	0.26	24 hours
Green Island Cement	G47	810198.0	825722.5	0	0.02778	0.02778			19.5	343	18.0	0.50	24 hours
Green Island Cement	G48	810131.3	825558.0	0	0.03583	0.03583			17.4	0	14.4	0.59	24 hours
Green Island Cement	G50	810209.8	825977.3	0	0.00472	0.00472			24.7	343	9.3	0.29	24 hours
Green Island Cement	G51	810371.3	825809.0	0	0.13583	0.13583			26.4	0	13.0	1.20	24 hours
Green Island Cement	G52	810374.8	825838.8	0	0.03583	0.03583			30.9	0	10.1	0.70	24 hours
Green Island Cement	G56	810249.8	825775.5	0	0.08083	0.08083			72.2	338	5.0	1.60	24 hours
Green Island Cement	G57	810324.8	825844.4	0	0.34444	0.34444			31.2	561	26.9	1.59	24 hours
Green Island Cement	G58	810254.7	825771.9	0	2.22222	2.22222	111.6667	27.78	113	383	20.6	3.10	24 hours
Green Island Cement	G60	810228.2	825768.7	0	0.13139	0.13139			113	338	14.0	1.19	24 hours
Green Island Cement	G61	810227.3	825940.6	0	0.06139	0.06139			32	0	13.3	0.80	24 hours
Green Island Cement	G62	809945.8	825584.7	0	0.17944	0.17944			17.2	0	6.5	1.95	24 hours
Green Island Cement	G63	809935.5	825589.8	0	0.17944	0.17944			17.2	0	6.5	1.95	24 hours
Green Island Cement	G66	810374.5	825853.2	0	0.03056	0.03056			63	0	14.2	0.57	24 hours
Green Island Cement	G67	810166.7	825747.9	0	0.02278	0.02278			27.8	343	12.7	0.60	24 hours
Green Island Cement	G68	810165.5	825695.2	0	0.02278	0.02278			29.8	343	12.7	0.60	24 hours
Green Island Cement	G69	810332.9	825821.6	0	0.09250	0.09250			15.5	383	30.3	0.28	24 hours
Green Island Cement	G70	809945.8	825703.8	0	0.05889	0.05889			25.9	333	10.5	0.60	24 hours
Green Island Cement	G71	809932.9	825674.1	0	0.01222	0.01222			24.2	333	5.3	0.60	24 hours
Green Island Cement	G72	810237.3	825945.6	0	0.03194	0.03194			16.9	333	13.8	0.60	24 hours
Green Island Cement	G73	810351.9	825859.6	0	0.04389	0.04389			78.8	363	2.3	1.85	24 hours
Green Island Cement	G75	810029.4	825616.1	0	0.00889	0.00889			2.9	333	39.7	0.23	24 hours
Shiu Wing Steel Mill	SW1	810243.3	825593.1	5	3.4194	3.4194	17.1		50	367	15.2	6.2	24 hours
Shiu Wing Steel Mill	SW2	810297.4	825653.9	5	0.7	0.7	0.4556	0.000161	35	325	15.7	2.6	24 hours
Shiu Wing Steel Mill	SW3	810309.5	825446.3	5	0.4639	0.4639	3.717	0.1222	50	813	10.3	1.85	24 hours
Shiu Wing Steel Mill	SW4	810270.3	825626.3	5	0.0088	0.0088			16	303	10.8	0.339	24 hours
Shiu Wing Steel Mill	SW5	810293.4	825601.8	5	0.0047	0.0047			16	303	5.9	0.339	24 hours
Shiu Wing Steel Mill	SW6	810336.7	825692.5	5	0.0511	0.0511	0.7194	0.04806	7	753	14.9	0.16	24 hours
EcoPark WEEE <sup>(a)</sup>	WEEE	810983.0	825412.0	5	0.0025	0.0025	0.0296	0.0009	13.2	463	7.19	0.15	24 hours
EcoPark South China <sup>(b)</sup>	SC	810840.0	825219.0	5	0.0001	0.0001	0.0078	0.0013	30	353	9.0	1	0700-1900
EcoPark SSK <sup>(b)</sup>	SSK	810768.0	825253.0	5	0.034	0.034	0.99	0.46	30	353	16.9	1.8	0700-1900
EcoPark (Lot T1) <sup>(d)</sup>	T1	810781.0	825483.0	5	0.42	0.42			30	296.5	9.0	1	0700-1900
EcoPark (Lot T6) <sup>(d)</sup>	T6	810538.0	825304.0	5	0.42	0.42			30	296.5	9.0	1	0700-1900
EcoPark (Lot T5) <sup>(e)</sup>	T5	810470.0	825342.0	5	0.42	0.42	2	1.277	30	353	9.0	1	0700-1900
EcoPark K Wah	KW1	810880.6	825301.2	5	0.03	0.03			18	298	12.2	0.25	24 hours
EcoPark K Wah	KW2	810890.4	825301.0	5	0.03	0.03			18	298	12.2	0.25	24 hours
EcoPark K Wah	KW3	810894.6	825297.3	5	0.03	0.03			18	298	12.2	0.25	24 hours
EcoPark K Wah	KW11	810883.8	825295.6	5	0.021	0.021			9.4	298	4.3	0.35	24 hours
EcoPark K Wah	KW12	810886.8	825293.1	5	0.021	0.021			9.4	298	4.3	0.35	24 hours

**Note:**

- (a) Emissions for Green Island Cement and Shiu Wing Steel Mill are referenced from the Approved Additional Gas-fired Generation Units Project (AEIAR-197/2016)
- (b) Emissions for SSK and South China at EcoPark are referenced from the relevant Environmental Permit (EP-226/2005/F)
- (c) Emissions from WEEE-park at EcoPark are referenced from the Supporting Information for Design Audit for Proposed Boilers for WEEE Treatment Facility at EcoPark (October 2017). The stack of WEEE-park was assumed to operate 24 hours in the assessment.
- (d) Proposed waste plastics recycling plant at Lot T1 and T6 may commence operation by June 2020 and involves emissions of PM (i.e. RSP and FSP). Details of emissions and stack parameters are not yet available. The remaining available EcoPark emission quota for PM was assumed at either Lot T1 or Lot T6 as a worst case. Stack parameters were based on those recommended in the relevant Environmental Permit.
- (e) A proposed biomass heating system may be installed by Champway at Lot T5 by June 2020 and may involve emissions of NOx, SO2, RSP and FSP. Details of emissions and stack parameters are not yet available. The remaining available EcoPark emission quota for PM and SO2 was assumed at Lot T5 as a worst case. It should be noted that part of the remaining available emission quota for SO2 assumed in Lot T5 is from non-ferrous metal process. Therefore, the assumed SO2 and PM emissions at Lot T5 are very conservative assumptions and the actual SO2 and PM emissions from the boiler are unlikely to be that high. The maximum NOx emission rate was assumed to be 2g/s as a reasonable assumption as advised by Waste Recycling Group of EPD. The actual emissions from Lot T5 will be further subject to process review/design audit. Stack parameters were based on those recommended in the relevant Environmental Permit.
- (f) Emissions from K Wah at EcoPark are referenced from its Specified Process Licence (L-3-241(2)).
- (g) The EcoPark emission assumptions are based on available information up to June 2020. It has been assumed in this assessment that the relevant emissions would be the same in the latter part of 2020 (i.e. July to Dec 2020) for the assessment of annual impacts. The emission information and the air quality assessment will be reviewed on a yearly interval (next review by 1 June 2020).



Annex A3

## Vehicular Emissions from External and Internal Roads

# Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

0499746 TMFB

Pollutant Name: NOx

Speed km/hr	PC ALL	LGV3 ALL	LGV4 ALL	PLB ALL	LGV6 ALL	HGV7 ALL	HGV8 ALL	HGV8b ALL	FBDD ALL	MC ALL	TAXI ALL	PV4 ALL	PV5 ALL	NFB6 ALL	NFB7 ALL	NFB8 ALL	FBSD ALL
10	0.085	2.489	2.289	1.973	3.384	5.060	8.811	7.030	12.526	0.357	0.981	0.970	2.173	4.759	8.184	13.972	9.912
17	0.064	1.915	1.751	1.601	2.637	3.780	6.012	4.762	8.059	0.331	0.766	0.741	1.569	3.369	6.044	9.461	6.910
18	0.062	1.861	1.700	1.562	2.566	3.662	5.769	4.566	7.694	0.328	0.746	0.718	1.515	3.246	5.850	9.071	6.647
27	0.051	1.524	1.372	1.290	2.114	2.927	4.317	3.391	5.572	0.303	0.625	0.566	1.177	2.493	4.642	6.747	5.065
28	0.050	1.497	1.345	1.266	2.078	2.869	4.208	3.301	5.415	0.301	0.617	0.553	1.150	2.435	4.547	6.573	4.945
29	0.050	1.471	1.319	1.243	2.043	2.813	4.105	3.217	5.268	0.299	0.609	0.540	1.125	2.380	4.457	6.409	4.831
30	0.049	1.447	1.295	1.221	2.009	2.761	4.009	3.138	5.130	0.297	0.602	0.528	1.101	2.328	4.372	6.255	4.725
31	0.048	1.419	1.263	1.200	1.974	2.708	3.918	3.064	5.000	0.295	0.594	0.506	1.079	2.279	4.289	6.111	4.625
32	0.047	1.397	1.242	1.180	1.944	2.660	3.833	2.993	4.878	0.293	0.587	0.496	1.057	2.232	4.212	5.975	4.530
33	0.047	1.377	1.221	1.160	1.915	2.615	3.752	2.926	4.763	0.291	0.579	0.486	1.037	2.188	4.139	5.846	4.440
34	0.046	1.357	1.201	1.142	1.888	2.572	3.676	2.863	4.653	0.289	0.572	0.477	1.018	2.146	4.069	5.724	4.355
35	0.046	1.338	1.183	1.124	1.862	2.531	3.604	2.803	4.550	0.288	0.565	0.468	0.999	2.106	4.002	5.609	4.274
36	0.045	1.319	1.165	1.107	1.836	2.492	3.535	2.745	4.452	0.286	0.558	0.459	0.982	2.067	3.939	5.499	4.197
37	0.044	1.302	1.148	1.090	1.812	2.455	3.470	2.691	4.358	0.285	0.552	0.451	0.965	2.031	3.878	5.395	4.124
38	0.044	1.285	1.131	1.074	1.789	2.419	3.408	2.638	4.269	0.283	0.546	0.444	0.949	1.996	3.819	5.297	4.055
39	0.043	1.269	1.115	1.059	1.767	2.384	3.349	2.589	4.184	0.282	0.540	0.437	0.933	1.962	3.763	5.203	3.988
40	0.043	1.254	1.100	1.045	1.746	2.351	3.292	2.541	4.103	0.280	0.535	0.430	0.918	1.930	3.710	5.113	3.925
41	0.042	1.239	1.086	1.031	1.725	2.320	3.238	2.495	4.026	0.279	0.529	0.423	0.904	1.900	3.658	5.027	3.864
42	0.042	1.225	1.072	1.018	1.706	2.289	3.187	2.451	3.952	0.278	0.524	0.417	0.890	1.870	3.608	4.946	3.806
43	0.042	1.211	1.059	1.006	1.686	2.259	3.138	2.409	3.881	0.277	0.519	0.411	0.877	1.842	3.560	4.868	3.750
44	0.041	1.198	1.046	0.994	1.668	2.231	3.091	2.369	3.813	0.276	0.514	0.405	0.865	1.814	3.514	4.793	3.697
45	0.041	1.186	1.033	0.982	1.650	2.204	3.046	2.330	3.748	0.275	0.509	0.400	0.853	1.788	3.470	4.721	3.646
50	0.039	1.129	0.977	0.934	1.569	2.080	2.846	2.157	3.458	0.271	0.488	0.375	0.799	1.669	3.269	4.404	3.418
51	0.039	1.120	0.968	0.926	1.555	2.057	2.811	2.126	3.447	0.270	0.484	0.371	0.789	1.648	3.232	4.348	3.377
52	0.039	1.111	0.959	0.919	1.540	2.035	2.777	2.096	3.435	0.269	0.481	0.367	0.780	1.627	3.197	4.294	3.338
53	0.038	1.102	0.951	0.912	1.526	2.014	2.744	2.067	3.425	0.269	0.477	0.363	0.771	1.607	3.163	4.242	3.300
54	0.038	1.094	0.943	0.906	1.513	1.994	2.712	2.038	3.414	0.268	0.474	0.359	0.762	1.588	3.129	4.192	3.264

Year	NO2/NO x ratio	NO/NOx ratio
2019		
PC	0.052	0.948
LGV3	0.087	0.913
LGV4	0.084	0.916
PLB	0.071	0.929
LGV6	0.244	0.756
HGV7	0.271	0.729
HGV8	0.102	0.898
FBDD	0.128	0.872
MC	0.050	0.950
TAXI	0.018	0.982
PV4	0.148	0.852
PV5	0.243	0.757
NFB6	0.269	0.731
NFB7	0.257	0.743
NFB8	0.081	0.919
FBSD	0.088	0.912
HGV8b	0.134	0.866

EMFAC-HK Model (v 4.1) Key Assumptions:

Mode: EMFAC

Calendar Year 2019

Temperature and relative humidity 24 degree C, 77% (2018 average at Tuen Mun Weather Station)

Vehicle Population (external traffic) Default (i.e. HGV8 emission factors for Roads R1 to R7, R9, R25 to R28)

Vehicle Population (internal traffic) All HGV8 (year 2019) are of Euro V standard (i.e. HGV8b emission factors for Roads R8, R11, R14, R15 and R17)

Vehicle Accrual Default

Trips: Default (not used. No starting emissions as parking restrictions apply for all identified major roads within the Study Area)

VKT: Default (not used in EMFAC mode)



### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM1\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	16	11	8	5	6	12	32	113	163	176	247	240	209	200	228	223	220	218	236	209	160	51	32	19
2	LGV3	7	5	5	3	3	8	17	29	55	59	76	71	66	63	72	71	70	72	75	66	66	25	13	8
3	LGV4	4	2	2	3	2	7	11	17	36	38	62	58	54	52	59	58	59	60	54	54	17	11	6	
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	4	2	2	3	2	7	11	17	36	38	57	53	50	48	54	53	54	55	50	51	20	10	6	
6	HGV7	0	0	0	0	0	0	4	20	286	364	274	254	231	225	261	262	268	251	214	16	12	4	0	0
7	HGV8	0	0	0	0	0	0	10	48	666	831	645	590	565	524	632	621	628	588	496	39	28	10	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	6	6	6	6	6	6	6	5	4	4	4	4
10	TAXI	9	5	6	4	5	7	15	64	88	96	100	103	92	87	99	97	96	99	102	92	76	34	15	5
11	PV4	1	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	4	3	2
12	PV5	1	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
<b>Total Flow (veh)</b>		<b>61</b>	<b>33</b>	<b>30</b>	<b>24</b>	<b>24</b>	<b>47</b>	<b>113</b>	<b>331</b>	<b>1367</b>	<b>1643</b>	<b>1561</b>	<b>1464</b>	<b>1353</b>	<b>1281</b>	<b>1501</b>	<b>1480</b>	<b>1486</b>	<b>1437</b>	<b>1338</b>	<b>612</b>	<b>518</b>	<b>226</b>	<b>141</b>	<b>98</b>

**NOx emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.039	0.038	0.038	0.038	0.038	0.038	0.039	0.046	0.050	0.051	0.046	0.042	0.042	0.041	0.042	0.042	0.046	0.050	0.048	0.043	0.043	0.039	0.039	0.039	0.039
LGV3	1.111	1.102	1.102	1.102	1.102	1.102	1.120	1.338	1.497	1.524	1.338	1.239	1.225	1.198	1.239	1.239	1.357	1.471	1.419	1.254	1.254	1.129	1.120	1.111	
LGV4	0.959	0.951	0.951	0.951	0.951	0.951	0.968	1.183	1.345	1.372	1.183	1.086	1.072	1.046	1.086	1.086	1.201	1.319	1.263	1.100	1.100	0.977	0.968	0.959	
PLB	0.919	0.912	0.912	0.912	0.912	0.912	0.926	1.124	1.266	1.290	1.124	1.031	1.018	0.994	1.031	1.031	1.142	1.243	1.200	1.045	1.045	0.934	0.926	0.919	
LGV6	1.540	1.526	1.526	1.526	1.526	1.526	1.555	1.862	2.078	2.114	1.862	1.725	1.706	1.668	1.725	1.725	1.888	2.043	1.974	1.746	1.746	1.569	1.555	1.540	
HGV7	2.035	2.014	2.014	2.014	2.014	2.014	2.057	2.531	2.869	2.927	2.531	2.320	2.289	2.231	2.320	2.320	2.572	2.813	2.708	2.351	2.351	2.080	2.057	2.035	
HGV8	2.777	2.744	2.744	2.744	2.744	2.744	2.811	3.604	4.208	4.317	3.604	3.238	3.187	3.091	3.238	3.238	3.676	4.105	3.918	3.292	3.292	2.846	2.811	2.777	
FBDD	3.435	3.425	3.425	3.425	3.425	3.425	3.447	4.550	5.415	5.572	4.550	4.026	3.952	3.813	4.026	4.026	4.653	5.268	5.000	4.103	4.103	3.458	3.447	3.435	
MC	0.269	0.269	0.269	0.269	0.269	0.269	0.270	0.288	0.301	0.303	0.288	0.279	0.278	0.276	0.279	0.279	0.289	0.295	0.280	0.280	0.271	0.270	0.269	0.269	
TAXI	0.481	0.477	0.477	0.477	0.477	0.477	0.484	0.565	0.617	0.625	0.565	0.529	0.524	0.514	0.529	0.529	0.572	0.609	0.594	0.535	0.535	0.488	0.484	0.481	
PV4	0.367	0.363	0.363	0.363	0.363	0.363	0.371	0.468	0.553	0.566	0.468	0.423	0.417	0.405	0.423	0.423	0.477	0.540	0.506	0.430	0.430	0.375	0.371	0.367	
PV5	0.780	0.771	0.771	0.771	0.771	0.771	0.789	0.999	1.150	1.177	0.999	0.904	0.890	0.865	0.904	0.904	1.018	1.125	1.079	0.918	0.918	0.799	0.789	0.780	
NFB6	1.627	1.607	1.607	1.607	1.607	1.607	1.648	2.106	2.435	2.493	2.106	1.900	1.870	1.814	1.900	1.900	2.146	2.380	2.279	1.930	1.930	1.669	1.648	1.627	
NFB7	3.197	3.163	3.163	3.163	3.163	3.163	3.232	4.002	4.547	4.642	4.002	3.658	3.608	3.514	3.658	3.658	4.069	4.457	4.289	3.710	3.710	3.269	3.232	3.197	
NFB8	4.294	4.242	4.242	4.242	4.242	4.242	4.348	5.609	6.573	6.747	5.609	5.027	4.946	4.793	5.027	5.027	5.724	6.409	6.111	5.113	5.113	4.404	4.348	4.294	
FBSD	3.338	3.300	3.300	3.300	3.300	3.300	3.377	4.274	4.945	5.065	4.274	3.864	3.806	3.697	3.864	3.864	4.355	4.831	4.625	3.925	3.925	3.418	3.377	3.338	
<b>Total composite emission factor (g/Veh/km)</b>		<b>1.1917</b>	<b>0.9620</b>	<b>1.0399</b>	<b>1.1240</b>	<b>1.0423</b>	<b>0.9382</b>	<b>1.1195</b>	<b>1.2719</b>	<b>2.9403</b>	<b>3.1010</b>	<b>2.3589</b>	<b>2.1011</b>	<b>2.1070</b>	<b>2.0354</b>	<b>2.1542</b>	<b>2.1561</b>	<b>2.4430</b>	<b>2.6641</b>	<b>2.4124</b>	<b>1.1467</b>	<b>1.1596</b>	<b>1.2823</b>	<b>1.3948</b>	<b>1.6525</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>1.92</b>	<b>1.55</b>	<b>1.68</b>	<b>1.81</b>	<b>1.68</b>	<b>1.51</b>	<b>1.81</b>	<b>2.05</b>	<b>4.74</b>	<b>5.00</b>	<b>3.80</b>	<b>3.39</b>	<b>3.40</b>	<b>3.28</b>	<b>3.47</b>	<b>3.48</b>	<b>3.94</b>	<b>4.30</b>	<b>3.89</b>	<b>1.85</b>	<b>1.87</b>	<b>2.07</b>	<b>2.25</b>	<b>2.67</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM2\_Unnamed Road to River Trade Terminal  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	4	3	2	1	1	1	3	5	8	17	13	13	13	15	13	13	15	17	13	10	7	7	5	
2	LGV3	3	1	1	1	1	1	1	3	5	5	5	4	4	5	5	5	5	5	4	4	3	3	3	
3	LGV4	2	1	1	0	0	0	1	2	3	3	4	3	3	3	3	3	3	3	4	3	3	3	2	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	2	1	1	0	0	0	1	2	3	3	4	3	3	3	3	3	3	4	3	3	3	3	2	
6	HGV7	0	0	0	0	0	0	2	2	64	69	57	52	38	56	63	54	59	63	65	1	1	1	0	
7	HGV8	0	0	0	0	0	0	6	16	396	406	333	306	277	265	314	311	324	314	331	2	2	1	0	
8	FBDD	0	0	0	0	0	0	0	0	396	406	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	2	1	1	1	1	1	1	2	4	5	5	3	3	3	5	3	3	5	5	3	1	1	1	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		13	7	6	3	3	3	15	32	483	499	425	385	341	347	408	392	410	408	431	29	24	19	17	13

**NOx emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.062	0.062	0.062	0.062	0.062	
LGV3	1.861	1.861	1.861	1.861	1.861	1.861	1.861	1.861	1.915	1.915	1.915	1.915	1.915	1.915	1.915	1.915	1.915	1.915	1.915	1.861	1.861	1.861	1.861	1.861	
LGV4	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.751	1.751	1.751	1.751	1.751	1.751	1.751	1.751	1.751	1.751	1.751	1.700	1.700	1.700	1.700	1.700	
PLB	1.562	1.562	1.562	1.562	1.562	1.562	1.562	1.562	1.601	1.601	1.601	1.601	1.601	1.601	1.601	1.601	1.601	1.601	1.601	1.562	1.562	1.562	1.562	1.562	
LGV6	2.566	2.566	2.566	2.566	2.566	2.566	2.566	2.566	2.637	2.637	2.637	2.637	2.637	2.637	2.637	2.637	2.637	2.637	2.637	2.566	2.566	2.566	2.566	2.566	
HGV7	3.662	3.662	3.662	3.662	3.662	3.662	3.662	3.662	3.780	3.780	3.780	3.780	3.780	3.780	3.780	3.780	3.780	3.780	3.780	3.662	3.662	3.662	3.662	3.662	
HGV8	5.769	5.769	5.769	5.769	5.769	5.769	5.769	5.769	6.012	6.012	6.012	6.012	6.012	6.012	6.012	6.012	6.012	6.012	6.012	5.769	5.769	5.769	5.769	5.769	
FBDD	7.694	7.694	7.694	7.694	7.694	7.694	7.694	7.694	8.059	8.059	8.059	8.059	8.059	8.059	8.059	8.059	8.059	8.059	8.059	7.694	7.694	7.694	7.694	7.694	
MC	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.328	0.328	0.328	0.328	0.328	
TAXI	0.746	0.746	0.746	0.746	0.746	0.746	0.746	0.746	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.746	0.746	0.746	0.746	0.746	
PV4	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.741	0.741	0.741	0.741	0.741	0.741	0.741	0.741	0.741	0.741	0.741	0.718	0.718	0.718	0.718	0.718	
PV5	1.515	1.515	1.515	1.515	1.515	1.515	1.515	1.515	1.569	1.569	1.569	1.569	1.569	1.569	1.569	1.569	1.569	1.569	1.569	1.515	1.515	1.515	1.515	1.515	
NFB6	3.246	3.246	3.246	3.246	3.246	3.246	3.246	3.246	3.369	3.369	3.369	3.369	3.369	3.369	3.369	3.369	3.369	3.369	3.369	3.246	3.246	3.246	3.246	3.246	
NFB7	5.850	5.850	5.850	5.850	5.850	5.850	5.850	5.850	6.044	6.044	6.044	6.044	6.044	6.044	6.044	6.044	6.044	6.044	6.044	5.850	5.850	5.850	5.850	5.850	
NFB8	9.071	9.071	9.071	9.071	9.071	9.071	9.071	9.071	9.461	9.461	9.461	9.461	9.461	9.461	9.461	9.461	9.461	9.461	9.461	9.071	9.071	9.071	9.071	9.071	
FBSD	6.647	6.647	6.647	6.647	6.647	6.647	6.647	6.647	6.910	6.910	6.910	6.910	6.910	6.910	6.910	6.910	6.910	6.910	6.910	6.647	6.647	6.647	6.647	6.647	
<b>Total composite emission factor (g/Veh/km)</b>		1.2198	1.0087	1.1664	0.8898	0.8898	0.8898	3.2666	3.6109	5.4845	5.4685	5.2930	5.3561	5.3752	5.2704	5.2781	5.3565	5.3580	5.2781	5.2615	1.3273	1.5339	1.5262	1.1509	1.1673
<b>Total composite emission factor (g/Veh/mile)</b>		1.97	1.63	1.88	1.44	1.44	1.44	5.27	5.82	8.85	8.82	8.54	8.64	8.67	8.50	8.51	8.64	8.64	8.51	8.49	2.14	2.47	2.46	1.86	1.88

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM3\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	12	8	6	4	5	11	29	108	155	168	230	227	196	187	213	210	207	203	219	196	150	44	25	14
2	LGV3	4	4	4	2	2	7	16	26	50	54	71	66	62	59	67	66	65	67	70	62	62	22	10	5
3	LGV4	2	1	1	3	2	7	10	15	33	35	58	55	51	49	56	55	55	56	56	51	51	14	8	4
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	2	1	1	3	2	7	10	15	33	35	53	50	47	45	51	50	50	51	51	47	48	17	7	4
6	HGV7	0	0	0	0	0	0	2	18	222	295	217	202	193	169	198	208	209	188	149	15	11	3	0	0
7	HGV8	0	0	0	0	0	0	4	32	270	425	312	284	288	259	318	310	304	274	165	37	26	9	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	6	6	6	6	6	6	6	6	5	4	4	4
10	TAXI	7	4	5	3	4	6	14	62	84	91	95	100	89	84	94	94	93	94	97	89	75	33	14	4
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	5	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	5	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
<b>Total Flow (veh)</b>		<b>48</b>	<b>26</b>	<b>24</b>	<b>21</b>	<b>21</b>	<b>44</b>	<b>98</b>	<b>299</b>	<b>884</b>	<b>1144</b>	<b>1136</b>	<b>1079</b>	<b>1012</b>	<b>934</b>	<b>1093</b>	<b>1088</b>	<b>1076</b>	<b>1029</b>	<b>907</b>	<b>583</b>	<b>494</b>	<b>207</b>	<b>124</b>	<b>85</b>

**NOx emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.039	0.038	0.038	0.038	0.038	0.038	0.039	0.044	0.046	0.046	0.046	0.041	0.041	0.042	0.042	0.042	0.046	0.050	0.048	0.042	0.041	0.039	0.039	0.039	0.039
LGV3	1.111	1.102	1.102	1.102	1.102	1.102	1.120	1.302	1.338	1.338	1.338	1.198	1.198	1.211	1.239	1.239	1.357	1.471	1.419	1.239	1.198	1.129	1.120	1.111	1.111
LGV4	0.959	0.951	0.951	0.951	0.951	0.951	0.968	1.148	1.183	1.183	1.183	1.046	1.046	1.059	1.086	1.086	1.201	1.319	1.263	1.086	1.046	0.977	0.968	0.959	0.959
PLB	0.919	0.912	0.912	0.912	0.912	0.912	0.926	1.090	1.124	1.124	1.124	0.994	0.994	1.006	1.031	1.031	1.142	1.243	1.200	1.031	0.994	0.934	0.926	0.919	0.919
LGV6	1.540	1.526	1.526	1.526	1.526	1.526	1.555	1.812	1.862	1.862	1.862	1.668	1.668	1.686	1.725	1.725	1.888	2.043	1.974	1.725	1.668	1.569	1.555	1.540	1.540
HGV7	2.035	2.014	2.014	2.014	2.014	2.014	2.057	2.455	2.531	2.531	2.531	2.231	2.231	2.259	2.320	2.320	2.572	2.813	2.708	2.320	2.231	2.080	2.057	2.035	2.035
HGV8	2.777	2.744	2.744	2.744	2.744	2.744	2.811	3.470	3.604	3.604	3.604	3.091	3.091	3.138	3.238	3.238	3.676	4.105	3.918	3.238	3.091	2.846	2.811	2.777	2.777
FBDD	3.435	3.425	3.425	3.425	3.425	3.425	3.447	4.358	4.550	4.550	4.550	3.813	3.813	3.881	4.026	4.026	4.653	5.268	5.000	4.026	3.813	3.458	3.447	3.435	3.435
MC	0.269	0.269	0.269	0.269	0.269	0.269	0.270	0.285	0.288	0.288	0.288	0.276	0.276	0.277	0.279	0.279	0.289	0.295	0.279	0.276	0.271	0.270	0.269	0.269	0.269
TAXI	0.481	0.477	0.477	0.477	0.477	0.477	0.484	0.552	0.565	0.565	0.565	0.514	0.514	0.519	0.529	0.529	0.572	0.609	0.594	0.529	0.514	0.488	0.484	0.481	0.481
PV4	0.367	0.363	0.363	0.363	0.363	0.363	0.371	0.451	0.468	0.468	0.468	0.405	0.405	0.411	0.423	0.423	0.477	0.540	0.506	0.423	0.405	0.375	0.371	0.367	0.367
PV5	0.780	0.771	0.771	0.771	0.771	0.771	0.789	0.965	0.999	0.999	0.999	0.865	0.865	0.877	0.904	0.904	1.018	1.125	1.079	0.904	0.865	0.799	0.789	0.780	0.780
NFB6	1.627	1.607	1.607	1.607	1.607	1.607	1.648	2.031	2.106	2.106	2.106	1.814	1.814	1.842	1.900	1.900	2.146	2.380	2.279	1.900	1.814	1.669	1.648	1.627	1.627
NFB7	3.197	3.163	3.163	3.163	3.163	3.163	3.232	3.878	4.002	4.002	4.002	3.514	3.514	3.560	3.658	3.658	4.069	4.457	4.289	3.658	3.514	3.269	3.232	3.197	3.197
NFB8	4.294	4.242	4.242	4.242	4.242	4.242	4.348	5.395	5.609	5.609	5.609	4.793	4.793	4.868	5.027	5.027	5.724	6.409	6.111	5.027	4.793	4.404	4.348	4.294	4.294
FBSD	3.338	3.300	3.300	3.300	3.300	3.300	3.377	4.124	4.274	4.274	4.274	3.697	3.697	3.750	3.864	3.864	4.355	4.831	4.625	3.864	3.697	3.418	3.377	3.338	3.338
<b>Total composite emission factor (g/Veh/km)</b>		<b>1.3177</b>	<b>1.0606</b>	<b>1.1277</b>	<b>1.2075</b>	<b>1.1141</b>	<b>0.9654</b>	<b>1.0335</b>	<b>1.1228</b>	<b>2.1130</b>	<b>2.3105</b>	<b>2.0384</b>	<b>1.7296</b>	<b>1.7924</b>	<b>1.7895</b>	<b>1.8779</b>	<b>1.8767</b>	<b>2.1089</b>	<b>2.2749</b>	<b>1.9084</b>	<b>1.1450</b>	<b>1.1070</b>	<b>1.3193</b>	<b>1.4918</b>	<b>1.7993</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>2.13</b>	<b>1.71</b>	<b>1.82</b>	<b>1.95</b>	<b>1.80</b>	<b>1.56</b>	<b>1.67</b>	<b>1.81</b>	<b>3.41</b>	<b>3.73</b>	<b>3.29</b>	<b>2.79</b>	<b>2.89</b>	<b>2.89</b>	<b>3.03</b>	<b>3.03</b>	<b>3.40</b>	<b>3.67</b>	<b>3.08</b>	<b>1.85</b>	<b>1.79</b>	<b>2.13</b>	<b>2.41</b>	<b>2.90</b>

## Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM5\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	10	7	5	4	5	11	28	106	152	165	219	217	187	179	203	200	197	193	209	187	142	38	19	9
2	LGV3	2	4	4	2	2	7	16	24	48	52	65	62	58	55	63	62	61	63	64	58	58	18	6	3
3	LGV4	1	1	1	3	2	7	10	14	32	34	54	52	48	46	53	52	52	53	52	48	48	11	5	2
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	1	1	1	3	2	7	10	14	32	34	49	47	44	42	48	47	47	48	47	44	45	14	4	2
6	HGV7	0	0	0	0	0	0	2	17	202	251	177	164	157	137	158	170	167	150	137	14	11	3	0	0
7	HGV8	0	0	0	0	0	0	4	28	156	179	80	74	80	73	94	90	64	64	99	31	23	8	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	6	6	6	6	6	6	6	5	4	4	4	4
10	TAXI	5	4	5	3	4	6	14	60	82	89	88	94	84	79	88	88	87	88	90	84	70	29	10	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	5	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	5	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
<b>Total Flow (veh)</b>		<b>40</b>	<b>25</b>	<b>23</b>	<b>21</b>	<b>21</b>	<b>44</b>	<b>97</b>	<b>286</b>	<b>741</b>	<b>845</b>	<b>832</b>	<b>801</b>	<b>744</b>	<b>693</b>	<b>803</b>	<b>804</b>	<b>768</b>	<b>755</b>	<b>798</b>	<b>552</b>	<b>468</b>	<b>186</b>	<b>104</b>	<b>71</b>

**NOx emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.039	0.038	0.038	0.038	0.038	0.038	0.039	0.046	0.046	0.046	0.047	0.042	0.042	0.042	0.042	0.041	0.047	0.047	0.047	0.046	0.046	0.039	0.039	0.039	0.039
LGV3	1.111	1.102	1.102	1.102	1.102	1.102	1.120	1.338	1.357	1.357	1.377	1.225	1.225	1.225	1.239	1.198	1.377	1.377	1.377	1.357	1.357	1.129	1.120	1.111	
LGV4	0.959	0.951	0.951	0.951	0.951	0.951	0.968	1.183	1.201	1.201	1.221	1.072	1.072	1.072	1.086	1.046	1.221	1.221	1.221	1.201	1.201	0.977	0.968	0.959	
PLB	0.919	0.912	0.912	0.912	0.912	0.912	0.926	1.124	1.142	1.142	1.160	1.018	1.018	1.018	1.031	0.994	1.160	1.160	1.160	1.142	1.142	0.934	0.926	0.919	
LGV6	1.540	1.526	1.526	1.526	1.526	1.526	1.555	1.862	1.888	1.888	1.915	1.706	1.706	1.706	1.725	1.668	1.915	1.915	1.915	1.888	1.888	1.569	1.555	1.540	
HGV7	2.035	2.014	2.014	2.014	2.014	2.014	2.057	2.531	2.572	2.572	2.615	2.289	2.289	2.289	2.320	2.231	2.615	2.615	2.615	2.572	2.572	2.080	2.057	2.035	
HGV8	2.777	2.744	2.744	2.744	2.744	2.744	2.811	3.604	3.676	3.676	3.752	3.187	3.187	3.187	3.238	3.091	3.752	3.752	3.752	3.676	3.676	2.846	2.811	2.777	
FBDD	3.435	3.425	3.425	3.425	3.425	3.425	3.447	4.550	4.653	4.653	4.763	3.952	3.952	3.952	4.026	3.813	4.763	4.763	4.763	4.653	4.653	3.458	3.447	3.435	
MC	0.269	0.269	0.269	0.269	0.269	0.269	0.270	0.288	0.289	0.289	0.291	0.278	0.278	0.278	0.279	0.276	0.291	0.291	0.291	0.289	0.289	0.271	0.270	0.269	
TAXI	0.481	0.477	0.477	0.477	0.477	0.477	0.484	0.565	0.572	0.572	0.579	0.524	0.524	0.524	0.529	0.514	0.579	0.579	0.579	0.572	0.572	0.488	0.484	0.481	
PV4	0.367	0.363	0.363	0.363	0.363	0.363	0.371	0.468	0.477	0.477	0.486	0.417	0.417	0.417	0.423	0.405	0.486	0.486	0.486	0.477	0.477	0.375	0.371	0.367	
PV5	0.780	0.771	0.771	0.771	0.771	0.771	0.789	0.999	1.018	1.018	1.037	0.890	0.890	0.890	0.904	0.865	1.037	1.037	1.037	1.018	1.018	0.799	0.789	0.780	
NFB6	1.627	1.607	1.607	1.607	1.607	1.607	1.648	2.106	2.146	2.146	2.188	1.870	1.870	1.870	1.900	1.814	2.188	2.188	2.188	2.146	2.146	1.669	1.648	1.627	
NFB7	3.197	3.163	3.163	3.163	3.163	3.163	3.232	4.002	4.069	4.069	4.139	3.608	3.608	3.608	3.658	3.514	4.139	4.139	4.139	4.069	4.069	3.269	3.232	3.197	
NFB8	4.294	4.242	4.242	4.242	4.242	4.242	4.348	5.609	5.724	5.724	5.846	4.946	4.946	4.946	5.027	4.793	5.846	5.846	5.846	5.724	5.724	4.404	4.348	4.294	
FBSD	3.338	3.300	3.300	3.300	3.300	3.300	3.377	4.274	4.355	4.355	4.440	3.806	3.806	3.806	3.864	3.697	4.440	4.440	4.440	4.355	4.355	3.418	3.377	3.338	
<b>Total composite emission factor (g/Veh/km)</b>		<b>1.4372</b>	<b>1.1015</b>	<b>1.1750</b>	<b>1.2075</b>	<b>1.1141</b>	<b>0.9654</b>	<b>1.0437</b>	<b>1.1292</b>	<b>1.9220</b>	<b>1.9731</b>	<b>1.6847</b>	<b>1.4152</b>	<b>1.4841</b>	<b>1.4620</b>	<b>1.5161</b>	<b>1.4615</b>	<b>1.6703</b>	<b>1.6564</b>	<b>1.7060</b>	<b>1.2719</b>	<b>1.2927</b>	<b>1.3758</b>	<b>1.6420</b>	<b>2.0293</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>2.32</b>	<b>1.78</b>	<b>1.90</b>	<b>1.95</b>	<b>1.80</b>	<b>1.56</b>	<b>1.68</b>	<b>1.82</b>	<b>3.10</b>	<b>3.18</b>	<b>2.72</b>	<b>2.28</b>	<b>2.39</b>	<b>2.36</b>	<b>2.45</b>	<b>2.36</b>	<b>2.69</b>	<b>2.67</b>	<b>2.75</b>	<b>2.05</b>	<b>2.09</b>	<b>2.22</b>	<b>2.65</b>	<b>3.27</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM7, Siu Lang Shui Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	1	4	8	10	7	5	5	7	5	7	7	7	5	1	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	8	15	18	11	9	9	9	11	9	9	11	11	2	0	0	0	
7	HGV8	0	0	0	0	0	0	6	13	14	8	7	7	7	8	7	8	8	8	4	2	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	1	3	6	8	4	2	2	2	4	2	2	4	4	2	4	2	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		0	0	0	0	0	0	2	21	47	55	31	24	24	24	31	24	24	31	31	14	3	0	0	

**NOx emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																							
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
PC	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
LGV3	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269
LGV4	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115
PLB	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059
LGV6	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767
HGV7	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384
HGV8	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349
FBDD	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184
MC	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282
TAXI	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540
PV4	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437
PV5	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933
NFB6	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962
NFB7	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763
NFB8	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203
FBSD	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2918	1.9505	1.8969	1.8332	1.8306	1.9777	1.9777	1.9777	1.8306	1.9777	1.9777	1.8306	1.8306	1.4807	2.2468	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.47	3.15	3.06	2.96	2.95	3.19	3.19	3.19	2.95	3.19	3.19	2.95	2.95	2.39	3.62	0.00	0.00



## Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM8\_Unnamed Road to Cemetery  
 Year: 2019

Vehicle Classes	Description	Hour																								
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1	PC	0	0	0	0	0	0	0	0	2	3	2	1	1	2	0	1	1	2	1	0	1	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	1	0	1	1	1	1	0	1	1	1	1	1	1	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	1	3	3	2	2	2	2	2	2	2	2	2	2	2	0	0	0	
7	HGV8	0	0	0	0	0	0	0	1	2	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	1	0	0	1	0	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	2	11	12	5	5	4	5	5	4	5	4	5	4	5	3	0	0	0

**NOx emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
PC	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	
LGV3	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	
LGV4	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	
PLB	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	
LGV6	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	
HGV7	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	
HGV8	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	
FBDD	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	
MC	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	
TAXI	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	
PV4	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	
PV5	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	
NFB6	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	
NFB7	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	
NFB8	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	
FBSD	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.6987	1.5835	1.4946	1.1627	1.6434	1.4430	1.2581	1.1627	2.0439	1.2581	1.4430	1.1627	0.5906	0.0000	0.0416	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.35	2.55	2.41	1.88	2.65	2.33	2.03	1.88	3.30	2.03	2.33	1.88	0.95	0.00	0.07	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM9\_Siu Lang Shui Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	0	0	0	0	0	0	1	4	10	13	9	6	6	6	9	5	6	8	9	6	1	1	0	0
2	LGV3	0	0	0	0	0	0	0	0	2	1	2	1	2	2	2	1	2	2	2	2	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	9	18	21	13	11	11	11	13	11	13	13	2	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	7	15	16	8	8	7	7	8	5	8	8	4	2	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	1	3	6	8	4	3	2	3	4	3	3	4	4	3	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		0	0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	0	0

**NOx emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	
LGV3	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	
LGV4	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	
PLB	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	
LGV6	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	
HGV7	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	
HGV8	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	
FBDD	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	
MC	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	
TAXI	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	
PV4	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	
PV5	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	
NFB6	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	
NFB7	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	
NFB8	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	
FBSD	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2950	2.0624	1.8843	1.8161	1.7737	1.9674	1.9424	1.8942	1.7737	2.0361	1.7821	1.8232	1.7737	1.3494	2.2864	0.0439	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.48	3.33	3.04	2.93	2.86	3.17	3.13	3.06	2.86	3.28	2.87	2.94	2.86	2.18	3.69	0.07	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM10\_Lung Fat Street  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	0	0	0	0	0	0	1	4	10	13	9	6	6	6	9	5	6	8	9	6	1	1	0	0
2	LGV3	0	0	0	0	0	0	0	0	2	1	2	1	2	2	2	1	2	2	2	2	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	9	18	21	13	11	11	11	13	11	11	13	13	2	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	7	15	16	8	8	7	7	8	5	8	8	8	4	2	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	1	3	6	8	4	3	2	3	4	3	3	4	4	3	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		0	0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	0	0

**NOx emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	
LGV3	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	
LGV4	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	
PLB	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	
LGV6	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	
HGV7	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	
HGV8	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	
FBDD	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	
MC	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	
TAXI	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	
PV4	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	
PV5	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	
NFB6	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	
NFB7	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	
NFB8	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	
FBSD	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2950	2.0624	1.8843	1.8161	1.7737	1.9674	1.9424	1.8942	1.7737	2.0361	1.7821	1.8232	1.7737	1.3494	2.2864	0.0439	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.48	3.33	3.04	2.93	2.86	3.17	3.13	3.06	2.86	3.28	2.87	2.94	2.86	2.18	3.69	0.07	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM11\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	6	4	3	1	2	8	23	93	128	137	193	196	166	159	178	180	176	169	184	166	129	27	11	7
2	LGV3	2	4	4	2	2	6	13	19	38	43	56	54	50	47	54	54	52	54	55	50	53	18	6	3
3	LGV4	1	1	1	3	2	6	9	10	24	26	48	46	43	41	47	46	47	47	46	43	43	11	5	2
4	PLB	5	3	2	2	2	2	3	6	6	6	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	1	1	1	3	2	6	9	10	25	26	43	41	39	37	42	41	42	42	41	39	40	14	4	2
6	HGV7	0	0	0	0	0	0	2	6	177	222	159	149	142	122	140	155	152	132	119	10	10	3	0	0
7	HGV8	0	0	0	0	0	0	4	15	103	121	47	38	50	45	62	58	40	32	67	12	11	7	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	6	6	6	6	6	6	6	5	4	4	4	4
10	TAXI	4	3	3	2	3	5	12	52	67	72	74	81	73	67	74	75	74	74	76	72	63	23	5	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
<b>Total Flow (veh)</b>		<b>35</b>	<b>21</b>	<b>19</b>	<b>17</b>	<b>17</b>	<b>37</b>	<b>85</b>	<b>228</b>	<b>595</b>	<b>684</b>	<b>720</b>	<b>700</b>	<b>649</b>	<b>600</b>	<b>693</b>	<b>704</b>	<b>676</b>	<b>646</b>	<b>688</b>	<b>478</b>	<b>420</b>	<b>168</b>	<b>91</b>	<b>69</b>

**NOx emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.039	0.038	0.038	0.038	0.038	0.038	0.039	0.046	0.046	0.046	0.047	0.042	0.042	0.042	0.041	0.047	0.047	0.047	0.047	0.046	0.046	0.039	0.039	0.039	0.039
LGV3	1.111	1.102	1.102	1.102	1.102	1.102	1.120	1.338	1.357	1.357	1.377	1.225	1.225	1.225	1.239	1.198	1.377	1.377	1.377	1.357	1.357	1.129	1.120	1.111	
LGV4	0.959	0.951	0.951	0.951	0.951	0.951	0.968	1.183	1.201	1.201	1.221	1.072	1.072	1.072	1.086	1.046	1.221	1.221	1.221	1.201	1.201	0.977	0.968	0.959	
PLB	0.919	0.912	0.912	0.912	0.912	0.912	0.926	1.124	1.142	1.142	1.160	1.018	1.018	1.018	1.031	0.994	1.160	1.160	1.160	1.142	1.142	0.934	0.926	0.919	
LGV6	1.540	1.526	1.526	1.526	1.526	1.526	1.555	1.862	1.888	1.888	1.915	1.706	1.706	1.706	1.725	1.668	1.915	1.915	1.915	1.888	1.888	1.569	1.555	1.540	
HGV7	2.035	2.014	2.014	2.014	2.014	2.014	2.057	2.531	2.572	2.572	2.615	2.289	2.289	2.289	2.320	2.231	2.615	2.615	2.615	2.572	2.572	2.080	2.057	2.035	
HGV8	2.777	2.744	2.744	2.744	2.744	2.744	2.811	3.604	3.676	3.676	3.752	3.187	3.187	3.187	3.238	3.091	3.752	3.752	3.752	3.676	3.676	2.846	2.811	2.777	
FBDD	3.435	3.425	3.425	3.425	3.425	3.425	3.447	4.550	4.653	4.653	4.763	3.952	3.952	3.952	4.026	3.813	4.763	4.763	4.763	4.653	4.653	3.458	3.447	3.435	
MC	0.269	0.269	0.269	0.269	0.269	0.269	0.270	0.288	0.289	0.289	0.291	0.278	0.278	0.278	0.279	0.276	0.291	0.291	0.291	0.289	0.289	0.271	0.270	0.269	
TAXI	0.481	0.477	0.477	0.477	0.477	0.477	0.484	0.565	0.572	0.572	0.579	0.524	0.524	0.524	0.529	0.514	0.579	0.579	0.579	0.572	0.572	0.488	0.484	0.481	
PV4	0.367	0.363	0.363	0.363	0.363	0.363	0.371	0.468	0.477	0.477	0.486	0.417	0.417	0.417	0.423	0.405	0.486	0.486	0.486	0.477	0.477	0.375	0.371	0.367	
PV5	0.780	0.771	0.771	0.771	0.771	0.771	0.789	0.999	1.018	1.018	1.037	0.890	0.890	0.890	0.904	0.865	1.037	1.037	1.037	1.018	1.018	0.799	0.789	0.780	
NFB6	1.627	1.607	1.607	1.607	1.607	1.607	1.648	2.106	2.146	2.146	2.188	1.870	1.870	1.870	1.900	1.814	2.188	2.188	2.188	2.146	2.146	1.669	1.648	1.627	
NFB7	3.197	3.163	3.163	3.163	3.163	3.163	3.232	4.002	4.069	4.069	4.139	3.608	3.608	3.608	3.658	3.514	4.139	4.139	4.139	4.069	4.069	3.269	3.232	3.197	
NFB8	4.294	4.242	4.242	4.242	4.242	4.242	4.348	5.609	5.724	5.724	5.846	4.946	4.946	4.946	5.027	4.793	5.846	5.846	5.846	5.724	5.724	4.404	4.348	4.294	
FBSD	3.338	3.300	3.300	3.300	3.300	3.300	3.377	4.274	4.355	4.355	4.440	3.806	3.806	3.806	3.864	3.697	4.440	4.440	4.440	4.355	4.355	3.418	3.377	3.338	
<b>Total composite emission factor (g/Veh/km)</b>		<b>1.6244</b>	<b>1.2830</b>	<b>1.3681</b>	<b>1.4568</b>	<b>1.3414</b>	<b>1.0353</b>	<b>1.1082</b>	<b>0.9837</b>	<b>1.8729</b>	<b>1.9400</b>	<b>1.6531</b>	<b>1.3759</b>	<b>1.4544</b>	<b>1.4314</b>	<b>1.4943</b>	<b>1.4337</b>	<b>1.6522</b>	<b>1.6145</b>	<b>1.6769</b>	<b>1.2297</b>	<b>1.2654</b>	<b>1.4863</b>	<b>1.8466</b>	<b>2.0871</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>2.62</b>	<b>2.07</b>	<b>2.21</b>	<b>2.35</b>	<b>2.16</b>	<b>1.67</b>	<b>1.79</b>	<b>1.59</b>	<b>3.02</b>	<b>3.13</b>	<b>2.67</b>	<b>2.22</b>	<b>2.35</b>	<b>2.31</b>	<b>2.41</b>	<b>2.31</b>	<b>2.66</b>	<b>2.60</b>	<b>2.70</b>	<b>1.98</b>	<b>2.04</b>	<b>2.40</b>	<b>2.98</b>	<b>3.37</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM12\_Unnamed Road to EcoPark  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	4	3	2	3	3	3	4	9	14	15	17	15	14	16	15	16	16	15	12	10	8	2		
2	LGV3	0	0	0	0	0	1	3	5	8	8	7	6	6	7	7	7	7	6	5	0	0	0		
3	LGV4	0	0	0	0	0	1	1	4	6	6	6	6	5	6	6	5	6	5	5	0	0	0		
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5	LGV6	0	0	0	0	0	1	1	4	6	6	6	5	6	6	5	6	6	5	5	0	0	0		
6	HGV7	0	0	0	0	0	0	0	2	7	8	5	4	4	5	4	4	5	5	2	1	0	0		
7	HGV8	0	0	0	0	0	0	0	6	38	42	25	24	23	21	24	24	19	24	15	10	1	0		
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	1	1	2	1	1	1	1	5	9	9	10	10	9	9	10	10	10	10	9	7	6	5		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Total Flow (veh)</b>		<b>5</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>7</b>	<b>10</b>	<b>35</b>	<b>88</b>	<b>94</b>	<b>76</b>	<b>72</b>	<b>67</b>	<b>64</b>	<b>74</b>	<b>72</b>	<b>65</b>	<b>74</b>	<b>57</b>	<b>45</b>	<b>17</b>	<b>13</b>	<b>2</b>	

**NOx emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	
LGV3	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	
LGV4	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	
PLB	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	
LGV6	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	
HGV7	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	
HGV8	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	
FBDD	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	
MC	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	
TAXI	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	
PV4	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	
PV5	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	
NFB6	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	
NFB7	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	
NFB8	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	
FBSD	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.1574</b>	<b>0.1847</b>	<b>0.3213</b>	<b>0.1847</b>	<b>0.1847</b>	<b>0.7707</b>	<b>0.8282</b>	<b>1.4964</b>	<b>2.3255</b>	<b>2.3732</b>	<b>1.9423</b>	<b>1.9568</b>	<b>1.9660</b>	<b>1.9350</b>	<b>1.9412</b>	<b>1.9568</b>	<b>1.8164</b>	<b>1.9412</b>	<b>1.9412</b>	<b>1.6660</b>	<b>1.5536</b>	<b>0.4686</b>	<b>0.2582</b>	<b>0.0481</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.25</b>	<b>0.30</b>	<b>0.52</b>	<b>0.30</b>	<b>0.30</b>	<b>1.24</b>	<b>1.34</b>	<b>2.41</b>	<b>3.75</b>	<b>3.83</b>	<b>3.13</b>	<b>3.16</b>	<b>3.17</b>	<b>3.12</b>	<b>3.13</b>	<b>3.16</b>	<b>2.93</b>	<b>3.13</b>	<b>3.13</b>	<b>2.69</b>	<b>2.51</b>	<b>0.76</b>	<b>0.42</b>	<b>0.08</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM13 Lung Yiu Street  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	4	2	1	1	0	3	10	20	32	34	26	23	22	22	24	23	23	24	24	22	13	4	6	1
2	LGV3	1	1	0	1	0	1	5	12	18	19	12	11	10	9	11	11	11	11	12	10	3	3	2	1
3	LGV4	0	0	0	0	0	0	4	6	14	15	10	9	8	7	9	9	10	8	5	2	1	2	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	4	6	14	15	9	8	7	6	8	8	8	8	9	7	3	2	1	1
6	HGV7	0	0	0	0	0	0	1	4	28	32	21	17	19	18	21	20	20	20	19	3	3	1	0	0
7	HGV8	0	0	0	0	0	0	2	4	38	42	21	17	19	18	21	20	20	20	19	3	3	1	0	0
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1
10	TAXI	2	1	1	0	0	0	5	12	19	21	12	11	10	10	11	11	11	11	12	10	4	3	2	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		<b>7</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>4</b>	<b>31</b>	<b>70</b>	<b>169</b>	<b>184</b>	<b>118</b>	<b>103</b>	<b>102</b>	<b>97</b>	<b>112</b>	<b>109</b>	<b>109</b>	<b>110</b>	<b>112</b>	<b>64</b>	<b>35</b>	<b>16</b>	<b>13</b>	<b>4</b>

**NOx emission factor (g/Veh/km, EMFAC Veh categories)**

Description	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	0:00
PC	0.045	0.045	0.045	0.045	0.045	0.045	0.046	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.045
LGV3	1.319	1.319	1.319	1.319	1.319	1.319	1.357	1.377	1.377	1.377	1.377	1.377	1.377	1.377	1.377	1.377	1.397	1.397	1.397	1.377	1.377	1.377	1.377	1.377	1.319
LGV4	1.165	1.165	1.165	1.165	1.165	1.165	1.201	1.221	1.221	1.221	1.221	1.221	1.221	1.221	1.221	1.221	1.242	1.242	1.242	1.221	1.221	1.221	1.221	1.221	1.165
PLB	1.107	1.107	1.107	1.107	1.107	1.107	1.142	1.160	1.160	1.160	1.160	1.160	1.160	1.160	1.160	1.160	1.180	1.180	1.180	1.160	1.160	1.160	1.160	1.160	1.107
LGV6	1.836	1.836	1.836	1.836	1.836	1.836	1.888	1.915	1.915	1.915	1.915	1.915	1.915	1.915	1.915	1.915	1.944	1.944	1.944	1.915	1.915	1.915	1.915	1.915	1.836
HGV7	2.492	2.492	2.492	2.492	2.492	2.492	2.572	2.615	2.615	2.615	2.615	2.615	2.615	2.615	2.615	2.615	2.660	2.660	2.660	2.615	2.615	2.615	2.615	2.615	2.492
HGV8	3.535	3.535	3.535	3.535	3.535	3.535	3.676	3.752	3.752	3.752	3.752	3.752	3.752	3.752	3.752	3.752	3.833	3.833	3.833	3.752	3.752	3.752	3.752	3.752	3.535
FBDD	4.452	4.452	4.452	4.452	4.452	4.452	4.653	4.763	4.763	4.763	4.763	4.763	4.763	4.763	4.763	4.763	4.878	4.878	4.878	4.763	4.763	4.763	4.763	4.763	4.452
MC	0.286	0.286	0.286	0.286	0.286	0.286	0.289	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.293	0.293	0.293	0.291	0.291	0.291	0.291	0.291	0.286
TAXI	0.558	0.558	0.558	0.558	0.558	0.558	0.572	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.587	0.587	0.587	0.579	0.579	0.579	0.579	0.579	0.558
PV4	0.459	0.459	0.459	0.459	0.459	0.459	0.477	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.459
PV5	0.982	0.982	0.982	0.982	0.982	0.982	1.018	1.037	1.037	1.037	1.037	1.037	1.037	1.037	1.037	1.037	1.057	1.057	1.057	1.037	1.037	1.037	1.037	1.037	0.982
NFB6	2.067	2.067	2.067	2.067	2.067	2.067	2.146	2.188	2.188	2.188	2.188	2.188	2.188	2.188	2.188	2.188	2.232	2.232	2.232	2.188	2.188	2.188	2.188	2.188	2.067
NFB7	3.939	3.939	3.939	3.939	3.939	3.939	4.069	4.139	4.139	4.139	4.139	4.139	4.139	4.139	4.139	4.139	4.212	4.212	4.212	4.139	4.139	4.139	4.139	4.139	3.939
NFB8	5.499	5.499	5.499	5.499	5.499	5.499	5.724	5.846	5.846	5.846	5.846	5.846	5.846	5.846	5.846	5.846	5.975	5.975	5.975	5.846	5.846	5.846	5.846	5.846	5.499
FBSD	4.197	4.197	4.197	4.197	4.197	4.197	4.355	4.440	4.440	4.440	4.440	4.440	4.440	4.440	4.440	4.440	4.530	4.530	4.530	4.440	4.440	4.440	4.440	4.440	4.197
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.3737</b>	<b>0.4919</b>	<b>0.3017</b>	<b>0.6821</b>	<b>0.0000</b>	<b>0.3635</b>	<b>1.0446</b>	<b>1.3290</b>	<b>1.9014</b>	<b>1.9161</b>	<b>1.8006</b>	<b>1.7648</b>	<b>1.8566</b>	<b>1.8401</b>	<b>1.8508</b>	<b>1.8429</b>	<b>1.8773</b>	<b>1.8607</b>	<b>1.8156</b>	<b>0.9867</b>	<b>1.0942</b>	<b>1.1683</b>	<b>0.5860</b>	<b>1.0526</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.60</b>	<b>0.79</b>	<b>0.49</b>	<b>1.10</b>	<b>0.00</b>	<b>0.59</b>	<b>1.68</b>	<b>2.14</b>	<b>3.07</b>	<b>3.09</b>	<b>2.90</b>	<b>2.85</b>	<b>2.99</b>	<b>2.97</b>	<b>2.99</b>	<b>2.97</b>	<b>3.03</b>	<b>3.00</b>	<b>2.93</b>	<b>1.59</b>	<b>1.76</b>	<b>1.88</b>	<b>0.95</b>	<b>1.70</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM14\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	2	2	2	0	2	5	13	73	96	103	167	173	144	137	154	157	153	145	160	144	116	23	5	6
2	LGV3	1	3	4	1	2	5	8	7	20	24	44	43	40	38	43	43	41	43	43	40	50	15	4	3
3	LGV4	1	1	1	3	2	6	5	4	10	11	38	37	35	34	38	37	38	38	36	35	38	9	4	0
4	PLB	5	3	2	2	2	2	3	6	6	6	12	11	10	10	11	11	11	12	10	8	8	7	6	1
5	LGV6	1	1	1	3	2	6	5	4	11	11	34	33	32	31	34	33	34	34	32	32	37	12	3	1
6	HGV7	0	0	0	0	0	0	1	2	149	190	138	132	123	104	119	135	132	112	100	7	7	2	0	0
7	HGV8	0	0	0	0	0	0	2	11	65	79	26	21	31	27	41	38	20	12	48	9	8	6	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	5	5	4	5	5	5	5	5	5	4	4	3	4	4
10	TAXI	2	2	2	2	3	5	7	40	48	51	62	70	63	57	63	64	63	64	62	59	20	3	1	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	3	2	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	3	2	2
13	NFB6	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
<b>Total Flow (veh)</b>		<b>28</b>	<b>17</b>	<b>17</b>	<b>15</b>	<b>17</b>	<b>33</b>	<b>54</b>	<b>158</b>	<b>426</b>	<b>500</b>	<b>602</b>	<b>597</b>	<b>547</b>	<b>503</b>	<b>581</b>	<b>595</b>	<b>567</b>	<b>536</b>	<b>576</b>	<b>414</b>	<b>385</b>	<b>152</b>	<b>78</b>	<b>65</b>

**NOx emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.039	0.038	0.038	0.038	0.038	0.038	0.039	0.046	0.046	0.046	0.047	0.042	0.042	0.042	0.041	0.047	0.047	0.047	0.046	0.046	0.039	0.039	0.039	0.039	0.039
LGV3	1.111	1.102	1.102	1.102	1.102	1.102	1.120	1.338	1.357	1.357	1.377	1.225	1.225	1.225	1.239	1.198	1.377	1.377	1.377	1.357	1.357	1.129	1.120	1.111	1.111
LGV4	0.959	0.951	0.951	0.951	0.951	0.951	0.968	1.183	1.201	1.201	1.221	1.072	1.072	1.072	1.086	1.046	1.221	1.221	1.221	1.201	1.201	0.977	0.968	0.959	0.959
PLB	0.919	0.912	0.912	0.912	0.912	0.912	0.926	1.124	1.142	1.142	1.160	1.018	1.018	1.018	1.031	0.994	1.160	1.160	1.160	1.142	1.142	0.934	0.926	0.919	0.919
LGV6	1.540	1.526	1.526	1.526	1.526	1.526	1.555	1.862	1.888	1.888	1.915	1.706	1.706	1.706	1.725	1.668	1.915	1.915	1.915	1.888	1.888	1.569	1.555	1.540	1.540
HGV7	2.035	2.014	2.014	2.014	2.014	2.014	2.057	2.531	2.572	2.572	2.615	2.289	2.289	2.289	2.320	2.231	2.615	2.615	2.615	2.572	2.572	2.080	2.057	2.035	2.035
HGV8	2.777	2.744	2.744	2.744	2.744	2.744	2.811	3.604	3.676	3.676	3.752	3.187	3.187	3.187	3.238	3.091	3.752	3.752	3.752	3.676	3.676	2.846	2.811	2.777	2.777
FBDD	3.435	3.425	3.425	3.425	3.425	3.425	3.447	4.550	4.653	4.653	4.763	3.952	3.952	3.952	4.026	3.813	4.763	4.763	4.763	4.653	4.653	3.458	3.447	3.435	3.435
MC	0.269	0.269	0.269	0.269	0.269	0.269	0.270	0.288	0.289	0.289	0.291	0.278	0.278	0.278	0.279	0.276	0.291	0.291	0.291	0.289	0.289	0.271	0.270	0.269	0.269
TAXI	0.481	0.477	0.477	0.477	0.477	0.477	0.484	0.565	0.572	0.572	0.579	0.524	0.524	0.524	0.529	0.514	0.579	0.579	0.579	0.572	0.572	0.488	0.484	0.481	0.481
PV4	0.367	0.363	0.363	0.363	0.363	0.363	0.371	0.468	0.477	0.477	0.486	0.417	0.417	0.417	0.423	0.405	0.486	0.486	0.486	0.477	0.477	0.375	0.371	0.367	0.367
PV5	0.780	0.771	0.771	0.771	0.771	0.771	0.789	0.999	1.018	1.018	1.037	0.890	0.890	0.890	0.904	0.865	1.037	1.037	1.037	1.018	1.018	0.799	0.789	0.780	0.780
NFB6	1.627	1.607	1.607	1.607	1.607	1.607	1.648	2.106	2.146	2.146	2.188	1.870	1.870	1.870	1.900	1.814	2.188	2.188	2.188	2.146	2.146	1.669	1.648	1.627	1.627
NFB7	3.197	3.163	3.163	3.163	3.163	3.163	3.232	4.002	4.069	4.069	4.139	3.608	3.608	3.608	3.658	3.514	4.139	4.139	4.139	4.069	4.069	3.269	3.232	3.197	3.197
NFB8	4.294	4.242	4.242	4.242	4.242	4.242	4.348	5.609	5.724	5.724	5.846	4.946	4.946	4.946	5.027	4.793	5.846	5.846	5.846	5.724	5.724	4.404	4.348	4.294	4.294
FBSD	3.338	3.300	3.300	3.300	3.300	3.300	3.377	4.274	4.355	4.355	4.440	3.806	3.806	3.806	3.864	3.697	4.440	4.440	4.440	4.355	4.355	3.418	3.377	3.338	3.338
<b>Total composite emission factor (g/Veh/km)</b>		<b>1.9510</b>	<b>1.4875</b>	<b>1.4987</b>	<b>1.5750</b>	<b>1.3414</b>	<b>1.1239</b>	<b>1.2597</b>	<b>0.8500</b>	<b>1.8752</b>	<b>1.9614</b>	<b>1.6241</b>	<b>1.3491</b>	<b>1.4256</b>	<b>1.4000</b>	<b>1.4688</b>	<b>1.4114</b>	<b>1.6156</b>	<b>1.5710</b>	<b>1.6564</b>	<b>1.2697</b>	<b>1.2827</b>	<b>1.5439</b>	<b>2.0744</b>	<b>2.1617</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>3.15</b>	<b>2.40</b>	<b>2.42</b>	<b>2.54</b>	<b>2.16</b>	<b>1.81</b>	<b>2.03</b>	<b>1.37</b>	<b>3.02</b>	<b>3.16</b>	<b>2.62</b>	<b>2.18</b>	<b>2.30</b>	<b>2.26</b>	<b>2.37</b>	<b>2.28</b>	<b>2.61</b>	<b>2.53</b>	<b>2.67</b>	<b>2.05</b>	<b>2.07</b>	<b>2.49</b>	<b>3.35</b>	<b>3.49</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM15\_Lung Yiu Street  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	3	1	1	1	0	2	7	14	22	23	11	9	9	9	9	9	9	9	9	5	1	4	1	
2	LGV3	1	1	0	1	0	1	3	9	13	13	4	4	3	3	4	4	3	4	4	0	1	2	0	
3	LGV4	0	0	0	0	0	0	2	2	9	10	3	4	3	2	3	4	4	3	4	3	1	1	2	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	2	9	10	2	3	2	1	2	3	3	2	3	2	0	1	1	1	
6	HGV7	0	0	0	0	0	0	1	2	18	21	16	12	15	14	17	15	15	16	14	1	2	0	0	
7	HGV8	0	0	0	0	0	0	1	2	24	27	16	12	15	14	17	15	15	16	14	1	2	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
10	TAXI	1	0	1	0	0	0	3	9	13	15	2	2	1	2	1	2	2	1	2	1	1	1	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	
14	NFB7	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	
15	NFB8	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		<b>5</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>19</b>	<b>46</b>	<b>114</b>	<b>125</b>	<b>58</b>	<b>50</b>	<b>53</b>	<b>49</b>	<b>56</b>	<b>56</b>	<b>56</b>	<b>54</b>	<b>54</b>	<b>22</b>	<b>12</b>	<b>5</b>	<b>4</b>	

**NOx emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	
LGV3	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	
LGV4	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	
PLB	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	
LGV6	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	
HGV7	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	
HGV8	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	
FBDD	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	
MC	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	
TAXI	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	
PV4	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	
PV5	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	
NFB6	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	
NFB7	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	
NFB8	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	
FBSD	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.3635</b>	<b>0.6133</b>	<b>0.2750</b>	<b>0.6133</b>	<b>0.0000</b>	<b>0.4224</b>	<b>0.8414</b>	<b>1.1228</b>	<b>1.5772</b>	<b>1.5943</b>	<b>1.8423</b>	<b>1.7691</b>	<b>1.9059</b>	<b>1.8858</b>	<b>1.9701</b>	<b>1.8608</b>	<b>1.8608</b>	<b>1.9458</b>	<b>1.8325</b>	<b>0.7974</b>	<b>1.0433</b>	<b>0.8838</b>	<b>0.6002</b>	<b>0.9393</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.59</b>	<b>0.99</b>	<b>0.44</b>	<b>0.99</b>	<b>0.00</b>	<b>0.68</b>	<b>1.36</b>	<b>1.81</b>	<b>2.54</b>	<b>2.57</b>	<b>2.97</b>	<b>2.85</b>	<b>3.07</b>	<b>3.04</b>	<b>3.18</b>	<b>3.00</b>	<b>3.00</b>	<b>3.14</b>	<b>2.96</b>	<b>1.29</b>	<b>1.68</b>	<b>1.43</b>	<b>0.97</b>	<b>1.52</b>



### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM16\_Lung Hong Street  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	1	1	0	0	0	1	3	6	10	11	15	14	13	13	15	14	15	15	13	8	3	2	0	
2	LGV3	0	0	0	0	0	0	2	3	5	6	8	7	6	8	7	7	8	8	6	3	2	0	0	
3	LGV4	0	0	0	0	0	0	2	4	5	5	7	5	5	6	5	5	6	6	5	4	1	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	2	4	5	5	7	5	5	6	5	5	6	6	5	3	1	0	0	
6	HGV7	0	0	0	0	0	0	2	10	11	5	5	4	4	4	5	5	4	5	2	1	1	0	0	
7	HGV8	0	0	0	0	0	1	2	14	15	5	5	4	4	4	5	5	4	5	2	1	1	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	1	1	0	0	0	0	2	3	6	6	10	9	9	8	10	9	9	10	10	9	3	2	1	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>12</b>	<b>24</b>	<b>55</b>	<b>59</b>	<b>60</b>	<b>53</b>	<b>49</b>	<b>48</b>	<b>56</b>	<b>53</b>	<b>53</b>	<b>56</b>	<b>42</b>	<b>23</b>	<b>11</b>	<b>3</b>	<b>0</b>	

**NOx emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	
LGV3	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	
LGV4	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	
PLB	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	
LGV6	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	
HGV7	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	
HGV8	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	
FBDD	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	
MC	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	
TAXI	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	
PV4	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	
PV5	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	
NFB6	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	
NFB7	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	
NFB8	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	
FBSD	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.2776</b>	<b>0.2776</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0412</b>	<b>1.0055</b>	<b>1.1201</b>	<b>1.6116</b>	<b>1.6135</b>	<b>1.1845</b>	<b>1.2055</b>	<b>1.1700</b>	<b>1.1836</b>	<b>1.1256</b>	<b>1.2055</b>	<b>1.2055</b>	<b>1.1256</b>	<b>1.1786</b>	<b>0.8705</b>	<b>0.8685</b>	<b>1.0530</b>	<b>0.1988</b>	<b>0.0000</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.45</b>	<b>0.45</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.07</b>	<b>1.62</b>	<b>1.81</b>	<b>2.60</b>	<b>2.60</b>	<b>1.91</b>	<b>1.94</b>	<b>1.89</b>	<b>1.91</b>	<b>1.82</b>	<b>1.94</b>	<b>1.94</b>	<b>1.82</b>	<b>1.90</b>	<b>1.40</b>	<b>1.40</b>	<b>1.70</b>	<b>0.32</b>	<b>0.00</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: R1\_Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	0	118	246	232	214	208	186	224	240	210	76	0	0	0	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	118	246	232	214	208	186	224	240	210	76	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0	0	0

**NOx emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
PC	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	
LGV3	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	
LGV4	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	
PLB	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	
LGV6	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	
HGV7	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	
HGV8	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	
FBDD	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	
MC	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	
TAXI	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	
PV4	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	
PV5	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	
NFB6	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	
NFB7	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	
NFB8	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	
FBSD	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8.2446	8.2421	8.2596	8.2456	8.2578	8.2607	8.2429	8.2588	8.2526	8.2365	8.2634	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.30	13.29	13.32	13.30	13.32	13.32	13.30	13.32	13.31	13.28	13.33	0.00	0.00	0.00	0.00	0.00



### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section R3\_ Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0		
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0	0	

**NOx emission factor (g/Veh/km, EMFAC Veh categories)**

Description	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
	PC	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085
LGV3	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489
LGV4	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289
PLB	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973
LGV6	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384
HGV7	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060
HGV8	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811
FBDD	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526
MC	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357
TAXI	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981
PV4	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970
PV5	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173
NFB6	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759
NFB7	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184
NFB8	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972
FBSD	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8.2446	8.2421	8.2596	8.2456	8.2578	8.2607	8.2429	8.2588	8.2526	8.2365	8.2634	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.30	13.29	13.32	13.30	13.32	13.32	13.30	13.32	13.31	13.28	13.33	0.00	0.00	0.00	0.00	0.00



## Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

**District:** Tuen Mun Fill Bank  
**Road Section:** R5\_Internal Road  
**Year:** 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0	0	0

**NOx emission factor (g/Veh/km, EMFAC Veh categories)**

Description	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
	PC	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085
LGV3	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	
LGV4	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	
PLB	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	
LGV6	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	
HGV7	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	
HGV8	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	
FBDD	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	
MC	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	
TAXI	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	
PV4	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	
PV5	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	
NFB6	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	
NFB7	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	
NFB8	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	
FBSD	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8.2446	8.2421	8.2596	8.2456	8.2578	8.2607	8.2429	8.2588	8.2526	8.2365	8.2634	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.30	13.29	13.32	13.30	13.32	13.32	13.30	13.32	13.31	13.28	13.33	0.00	0.00	0.00	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: R6 Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	0	118	246	232	214	208	186	224	240	210	76	0	0	0	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	118	246	232	214	208	186	224	240	210	76	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0	0	0

**NOx emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
PC	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	
LGV3	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	
LGV4	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	
PLB	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	
LGV6	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	
HGV7	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	
HGV8	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	
FBDD	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	
MC	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	
TAXI	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	
PV4	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	
PV5	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	
NFB6	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	
NFB7	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	
NFB8	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	
FBSD	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8.2446	8.2421	8.2596	8.2456	8.2578	8.2607	8.2429	8.2588	8.2526	8.2365	8.2634	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.30	13.29	13.32	13.30	13.32	13.32	13.30	13.32	13.31	13.28	13.33	0.00	0.00	0.00	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: R7\_ Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	116	244	230	212	206	184	222	218	238	208	74	0	0	0	0		
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	137	288	270	250	242	216	262	256	280	246	87	0	0	0	0	

**NOx emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																							
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
PC	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085
LGV3	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489
LGV4	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289
PLB	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973
LGV6	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384
HGV7	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060
HGV8	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811
FBDD	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526
MC	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357
TAXI	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981
PV4	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970
PV5	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173
NFB6	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759
NFB7	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184
NFB8	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972
FBSD	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8.2363	8.2382	8.2556	8.2411	8.2533	8.2556	8.2386	8.2545	8.2486	8.2318	8.2508	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.28	13.29	13.32	13.29	13.31	13.32	13.29	13.31	13.30	13.28	13.31	0.00	0.00	0.00	0.00





### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section R9\_ Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	

**NOx emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																							
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
PC	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085
LGV3	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489
LGV4	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289
PLB	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973
LGV6	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384
HGV7	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060
HGV8	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811
FBDD	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526
MC	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357
TAXI	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981
PV4	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970
PV5	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173
NFB6	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759
NFB7	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184
NFB8	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972
FBSD	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8.8113	8.8113	8.8113	8.8113	8.8113	8.8113	8.8113	8.8113	8.8113	8.8113	8.8113	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.21	14.21	14.21	14.21	14.21	14.21	14.21	14.21	14.21	14.21	14.21	0.00	0.00	0.00	0.00











### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: R26\_Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17

**NOx emission factor (g/Veh/km, EMFAC Veh categories)**

Description	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
	PC	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085
LGV3	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489
LGV4	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289
PLB	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973
LGV6	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384
HGV7	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060
HGV8	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811
FBDD	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526
MC	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357
TAXI	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981
PV4	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970
PV5	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173
NFB6	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759
NFB7	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184
NFB8	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972
FBSD	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8.8113	8.8113	8.8113	8.8113	8.8113	8.8113	8.8113	8.8113	8.8113	8.8113	8.8113	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.21	14.21	14.21	14.21	14.21	14.21	14.21	14.21	14.21	14.21	14.21	0.00	0.00	0.00	0.00







# Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

0499746 TMFB

Pollutant Name: NO2

Speed km/hr	PC ALL	LGV3 ALL	LGV4 ALL	PLB ALL	LGV6 ALL	HGV7 ALL	HGV8 ALL	HGV8b ALL	FBDD ALL	MC ALL	TAXI ALL	PV4 ALL	PV5 ALL	NFB6 ALL	NFB7 ALL	NFB8 ALL	FBSD ALL
10	0.004	0.216	0.192	0.140	0.824	1.370	0.900	0.941	1.604	0.018	0.018	0.144	0.527	1.281	2.107	1.128	0.876
17	0.003	0.166	0.147	0.114	0.642	1.023	0.614	0.638	1.032	0.016	0.014	0.110	0.381	0.907	1.556	0.764	0.610
18	0.003	0.162	0.142	0.111	0.625	0.992	0.589	0.611	0.985	0.016	0.013	0.106	0.368	0.874	1.506	0.732	0.587
27	0.003	0.132	0.115	0.092	0.515	0.793	0.441	0.454	0.714	0.015	0.011	0.084	0.286	0.671	1.195	0.545	0.447
28	0.003	0.130	0.113	0.090	0.506	0.777	0.430	0.442	0.693	0.015	0.011	0.082	0.279	0.656	1.171	0.531	0.437
29	0.003	0.128	0.111	0.088	0.498	0.762	0.419	0.431	0.675	0.015	0.011	0.080	0.273	0.641	1.148	0.517	0.427
30	0.003	0.126	0.108	0.087	0.490	0.748	0.410	0.420	0.657	0.015	0.011	0.078	0.267	0.627	1.126	0.505	0.417
31	0.002	0.123	0.106	0.085	0.481	0.733	0.400	0.410	0.640	0.015	0.011	0.075	0.262	0.614	1.104	0.493	0.409
32	0.002	0.121	0.104	0.084	0.473	0.720	0.392	0.401	0.625	0.015	0.011	0.073	0.257	0.601	1.084	0.482	0.400
33	0.002	0.119	0.102	0.083	0.467	0.708	0.383	0.392	0.610	0.014	0.010	0.072	0.252	0.589	1.066	0.472	0.392
34	0.002	0.118	0.101	0.081	0.460	0.696	0.376	0.383	0.596	0.014	0.010	0.071	0.247	0.578	1.048	0.462	0.385
35	0.002	0.116	0.099	0.080	0.453	0.685	0.368	0.375	0.583	0.014	0.010	0.069	0.243	0.567	1.031	0.453	0.378
36	0.002	0.114	0.098	0.079	0.447	0.675	0.361	0.368	0.570	0.014	0.010	0.068	0.238	0.557	1.014	0.444	0.371
37	0.002	0.113	0.096	0.078	0.442	0.665	0.354	0.360	0.558	0.014	0.010	0.067	0.234	0.547	0.998	0.436	0.364
38	0.002	0.112	0.095	0.076	0.436	0.655	0.348	0.353	0.547	0.014	0.010	0.066	0.230	0.537	0.983	0.428	0.358
39	0.002	0.110	0.093	0.075	0.431	0.646	0.342	0.347	0.536	0.014	0.010	0.065	0.227	0.528	0.969	0.420	0.352
40	0.002	0.109	0.092	0.074	0.425	0.637	0.336	0.340	0.526	0.014	0.010	0.064	0.223	0.520	0.955	0.413	0.347
41	0.002	0.108	0.091	0.073	0.420	0.628	0.331	0.334	0.516	0.014	0.010	0.063	0.219	0.511	0.942	0.406	0.341
42	0.002	0.106	0.090	0.072	0.415	0.620	0.326	0.328	0.506	0.014	0.009	0.062	0.216	0.503	0.929	0.399	0.336
43	0.002	0.105	0.089	0.072	0.411	0.612	0.321	0.323	0.497	0.014	0.009	0.061	0.213	0.496	0.917	0.393	0.331
44	0.002	0.104	0.088	0.071	0.406	0.604	0.316	0.317	0.488	0.014	0.009	0.060	0.210	0.488	0.905	0.387	0.327
45	0.002	0.103	0.087	0.070	0.402	0.597	0.311	0.312	0.480	0.014	0.009	0.059	0.207	0.481	0.893	0.381	0.322
50	0.002	0.098	0.082	0.066	0.382	0.563	0.291	0.289	0.443	0.013	0.009	0.055	0.194	0.449	0.842	0.356	0.302
51	0.002	0.097	0.081	0.066	0.379	0.557	0.287	0.285	0.441	0.013	0.009	0.055	0.192	0.444	0.832	0.351	0.298
52	0.002	0.096	0.080	0.065	0.375	0.551	0.284	0.281	0.440	0.013	0.009	0.054	0.189	0.438	0.823	0.347	0.295
53	0.002	0.096	0.080	0.065	0.372	0.545	0.280	0.277	0.439	0.013	0.009	0.054	0.187	0.433	0.814	0.342	0.292
54	0.002	0.095	0.079	0.064	0.369	0.540	0.277	0.273	0.437	0.013	0.009	0.053	0.185	0.428	0.806	0.338	0.288

EMFAC-HK Model (v 4.1) Key Assumptions:

Mode: EMFAC

Calendar Year 2019

Temperature and relative humidity 24 degree C, 77% (2018 average at Tuen Mun Weather Station)

Vehicle Population (external traffic) Default (i.e. HGV8 emission factors for Roads R1 to R7, R9, R25 to R28)

Vehicle Population (internal traffic) All HGV8 (year 2019) are of Euro V standard (i.e. HGV8b emission factors for Roads R8, R11, R14, R15 and R17)

Vehicle Accrual Default

Trips: Default (not used. No starting emissions as parking restrictions apply for all identified major roads within the Study Area)

VKT: Default (not used in EMFAC mode)



### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM1\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	16	11	8	5	12	32	113	163	176	247	240	209	200	228	223	220	218	236	209	160	51	32	19	
2	LGV3	7	5	5	3	3	8	17	29	55	59	76	71	66	63	72	71	70	72	75	66	66	25	13	8
3	LGV4	4	2	2	3	2	7	11	17	36	38	62	58	54	52	59	58	59	60	54	54	17	11	6	
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	7	6	
5	LGV6	4	2	2	3	2	7	11	17	36	38	57	53	50	48	54	53	54	55	50	51	20	10	6	
6	HGV7	0	0	0	0	0	0	4	20	286	364	274	254	231	225	261	262	268	251	214	16	12	4	0	0
7	HGV8	0	0	0	0	0	0	10	48	666	831	645	590	565	524	632	621	628	588	496	39	28	10	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	5	6	6	6	6	6	5	4	4	4	4	4
10	TAXI	9	5	6	4	5	7	15	64	88	96	100	103	92	87	99	97	96	99	102	92	76	34	15	5
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	5	4	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
<b>Total Flow (veh)</b>		<b>61</b>	<b>33</b>	<b>30</b>	<b>24</b>	<b>24</b>	<b>47</b>	<b>113</b>	<b>331</b>	<b>1367</b>	<b>1643</b>	<b>1561</b>	<b>1464</b>	<b>1353</b>	<b>1281</b>	<b>1501</b>	<b>1480</b>	<b>1486</b>	<b>1437</b>	<b>1338</b>	<b>612</b>	<b>518</b>	<b>226</b>	<b>141</b>	<b>98</b>

**NO2 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002
LGV3	0.096	0.096	0.096	0.096	0.096	0.096	0.097	0.116	0.130	0.132	0.116	0.108	0.106	0.104	0.108	0.108	0.118	0.128	0.123	0.109	0.109	0.098	0.097	0.096	
LGV4	0.080	0.080	0.080	0.080	0.080	0.080	0.081	0.099	0.113	0.115	0.099	0.091	0.090	0.088	0.091	0.091	0.101	0.111	0.106	0.092	0.092	0.082	0.081	0.080	
PLB	0.065	0.065	0.065	0.065	0.065	0.065	0.066	0.080	0.090	0.092	0.080	0.073	0.072	0.071	0.073	0.073	0.081	0.088	0.085	0.074	0.074	0.066	0.066	0.065	
LGV6	0.375	0.372	0.372	0.372	0.372	0.372	0.379	0.453	0.506	0.515	0.453	0.420	0.415	0.406	0.420	0.420	0.460	0.498	0.481	0.425	0.425	0.382	0.379	0.375	
HGV7	0.551	0.545	0.545	0.545	0.545	0.545	0.557	0.685	0.777	0.793	0.685	0.628	0.620	0.604	0.628	0.628	0.696	0.762	0.733	0.637	0.637	0.563	0.557	0.551	
HGV8	0.284	0.280	0.280	0.280	0.280	0.280	0.287	0.368	0.430	0.441	0.368	0.331	0.326	0.316	0.331	0.331	0.376	0.419	0.400	0.336	0.336	0.291	0.287	0.284	
FBDD	0.440	0.439	0.439	0.439	0.439	0.439	0.441	0.583	0.693	0.714	0.583	0.516	0.506	0.488	0.516	0.516	0.596	0.675	0.640	0.526	0.526	0.443	0.441	0.440	
MC	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.015	0.015	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.014	0.014	0.013	0.013	0.013	
TAXI	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.011	0.011	0.010	0.010	0.009	0.009	0.010	0.010	0.010	0.011	0.011	0.010	0.010	0.009	0.009	0.009	
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.055	0.069	0.082	0.084	0.069	0.063	0.062	0.060	0.063	0.063	0.071	0.080	0.075	0.064	0.064	0.055	0.055	0.054	
PV5	0.189	0.187	0.187	0.187	0.187	0.187	0.192	0.243	0.279	0.286	0.243	0.219	0.216	0.210	0.219	0.219	0.247	0.273	0.262	0.223	0.223	0.194	0.192	0.189	
NFB6	0.438	0.433	0.433	0.433	0.433	0.433	0.444	0.567	0.656	0.671	0.567	0.511	0.503	0.488	0.511	0.511	0.578	0.641	0.614	0.520	0.520	0.449	0.444	0.438	
NFB7	0.823	0.814	0.814	0.814	0.814	0.814	0.832	1.031	1.171	1.195	1.031	0.942	0.929	0.905	0.942	0.942	1.048	1.148	1.104	0.955	0.955	0.842	0.832	0.823	
NFB8	0.347	0.342	0.342	0.342	0.342	0.342	0.351	0.453	0.531	0.545	0.453	0.406	0.399	0.387	0.406	0.406	0.462	0.517	0.493	0.413	0.413	0.356	0.351	0.347	
FBSD	0.295	0.292	0.292	0.292	0.292	0.292	0.298	0.378	0.437	0.447	0.378	0.341	0.336	0.327	0.341	0.341	0.385	0.427	0.409	0.347	0.347	0.302	0.298	0.295	
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.1601</b>	<b>0.1200</b>	<b>0.1299</b>	<b>0.1540</b>	<b>0.1357</b>	<b>0.1281</b>	<b>0.1499</b>	<b>0.1641</b>	<b>0.4077</b>	<b>0.4319</b>	<b>0.3295</b>	<b>0.2946</b>	<b>0.2933</b>	<b>0.2859</b>	<b>0.3002</b>	<b>0.3017</b>	<b>0.3413</b>	<b>0.3705</b>	<b>0.3361</b>	<b>0.1553</b>	<b>0.1581</b>	<b>0.1797</b>	<b>0.1961</b>	<b>0.2418</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.26</b>	<b>0.19</b>	<b>0.21</b>	<b>0.25</b>	<b>0.22</b>	<b>0.21</b>	<b>0.24</b>	<b>0.26</b>	<b>0.66</b>	<b>0.70</b>	<b>0.53</b>	<b>0.48</b>	<b>0.47</b>	<b>0.46</b>	<b>0.48</b>	<b>0.49</b>	<b>0.55</b>	<b>0.60</b>	<b>0.54</b>	<b>0.25</b>	<b>0.25</b>	<b>0.29</b>	<b>0.32</b>	<b>0.39</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM2\_Unnamed Road to River Trade Terminal  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	4	3	2	1	1	1	3	5	8	17	13	13	13	15	13	13	15	17	13	10	7	7	5	
2	LGV3	3	1	1	1	1	1	1	3	5	5	5	4	4	5	5	5	5	5	4	4	3	3	3	
3	LGV4	2	1	1	0	0	0	1	2	3	3	4	3	3	3	3	3	3	3	4	3	3	3	2	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	2	1	1	0	0	0	1	2	3	3	4	3	3	3	3	3	3	4	3	3	3	3	2	
6	HGV7	0	0	0	0	0	0	2	2	64	69	57	52	38	56	63	54	59	63	65	1	1	1	0	0
7	HGV8	0	0	0	0	0	0	6	16	396	406	333	306	277	265	314	311	324	314	331	2	2	1	0	0
8	FBDD	0	0	0	0	0	0	0	0	396	406	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	2	1	1	1	1	1	1	2	4	5	5	3	3	3	5	3	3	5	5	3	1	1	1	1
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		13	7	6	3	3	3	15	32	483	499	425	385	341	347	408	392	410	408	431	29	24	19	17	13

**NO2 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
	PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
LGV3	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.162	0.162	0.162	0.162	0.162	
LGV4	0.142	0.142	0.142	0.142	0.142	0.142	0.142	0.142	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.142	0.142	0.142	0.142	0.142	
PLB	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.111	0.111	0.111	0.111	0.111	0.111	
LGV6	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.625	0.625	0.625	0.625	0.625	0.625	
HGV7	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	1.023	1.023	1.023	1.023	1.023	1.023	1.023	1.023	1.023	1.023	0.992	0.992	0.992	0.992	0.992	0.992	
HGV8	0.589	0.589	0.589	0.589	0.589	0.589	0.589	0.589	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.589	0.589	0.589	0.589	0.589	0.589	
FBDD	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985	1.032	1.032	1.032	1.032	1.032	1.032	1.032	1.032	1.032	1.032	0.985	0.985	0.985	0.985	0.985	0.985	
MC	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	
TAXI	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.013	0.013	0.013	0.013	0.013	0.013	
PV4	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.106	0.106	0.106	0.106	0.106	0.106	
PV5	0.368	0.368	0.368	0.368	0.368	0.368	0.368	0.368	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.368	0.368	0.368	0.368	0.368	0.368	
NFB6	0.874	0.874	0.874	0.874	0.874	0.874	0.874	0.874	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.874	0.874	0.874	0.874	0.874	0.874	
NFB7	1.506	1.506	1.506	1.506	1.506	1.506	1.506	1.506	1.556	1.556	1.556	1.556	1.556	1.556	1.556	1.556	1.556	1.556	1.506	1.506	1.506	1.506	1.506	1.506	
NFB8	0.732	0.732	0.732	0.732	0.732	0.732	0.732	0.732	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.732	0.732	0.732	0.732	0.732	0.732	
FBSD	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.587	0.587	0.587	0.587	0.587	0.587	
<b>Total composite emission factor (g/Veh/km)</b>		0.1584	0.1360	0.1582	0.0594	0.0594	0.0594	0.4314	0.4211	0.6460	0.6478	0.6282	0.6349	0.6221	0.6432	0.6388	0.6366	0.6406	0.6388	0.6356	0.1794	0.2152	0.2318	0.1661	0.1576
<b>Total composite emission factor (g/Veh/mile)</b>		0.26	0.22	0.26	0.10	0.10	0.10	0.70	0.68	1.04	1.04	1.01	1.02	1.00	1.04	1.03	1.03	1.03	1.03	1.03	0.29	0.35	0.37	0.27	0.25

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM3\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	12	8	6	4	5	11	29	108	155	168	230	227	196	187	210	207	203	219	196	150	44	25	14	
2	LGV3	4	4	4	2	2	7	16	26	50	54	71	66	62	59	67	66	65	67	70	62	62	22	10	5
3	LGV4	2	1	1	3	2	7	10	15	33	35	58	55	51	49	56	55	56	56	51	51	14	8	4	
4	PLB	5	3	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6	
5	LGV6	2	1	1	3	2	7	10	15	33	35	53	50	47	45	51	50	50	51	51	47	48	17	7	4
6	HGV7	0	0	0	0	0	0	2	18	222	295	217	202	193	169	198	208	209	188	149	15	11	3	0	0
7	HGV8	0	0	0	0	0	0	4	32	270	425	312	284	288	259	318	310	304	274	165	37	26	9	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	5	6	6	6	6	6	5	4	4	4	4	4
10	TAXI	7	4	5	3	4	6	14	62	84	91	95	100	89	84	94	94	93	94	97	89	75	33	14	4
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	5	5	4	4	4	3	2	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	5	5	4	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
<b>Total Flow (veh)</b>		<b>48</b>	<b>26</b>	<b>24</b>	<b>21</b>	<b>21</b>	<b>44</b>	<b>98</b>	<b>299</b>	<b>884</b>	<b>1144</b>	<b>1136</b>	<b>1079</b>	<b>1012</b>	<b>934</b>	<b>1093</b>	<b>1088</b>	<b>1076</b>	<b>1029</b>	<b>907</b>	<b>583</b>	<b>494</b>	<b>207</b>	<b>124</b>	<b>85</b>

**NO2 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
LGV3	0.096	0.096	0.096	0.096	0.096	0.096	0.097	0.113	0.116	0.116	0.116	0.104	0.104	0.105	0.108	0.108	0.118	0.128	0.123	0.108	0.104	0.098	0.097	0.096	0.096
LGV4	0.080	0.080	0.080	0.080	0.080	0.080	0.081	0.096	0.099	0.099	0.099	0.088	0.088	0.089	0.091	0.091	0.101	0.111	0.106	0.091	0.088	0.082	0.081	0.080	0.080
PLB	0.065	0.065	0.065	0.065	0.065	0.065	0.066	0.078	0.080	0.080	0.080	0.071	0.071	0.072	0.073	0.073	0.081	0.088	0.085	0.073	0.071	0.066	0.066	0.065	0.065
LGV6	0.375	0.372	0.372	0.372	0.372	0.372	0.379	0.442	0.453	0.453	0.453	0.406	0.406	0.411	0.420	0.420	0.460	0.498	0.481	0.420	0.406	0.382	0.379	0.375	0.375
HGV7	0.551	0.545	0.545	0.545	0.545	0.545	0.557	0.665	0.685	0.685	0.685	0.604	0.604	0.612	0.628	0.628	0.696	0.762	0.733	0.628	0.604	0.563	0.557	0.551	0.551
HGV8	0.284	0.280	0.280	0.280	0.280	0.280	0.287	0.354	0.368	0.368	0.368	0.316	0.316	0.321	0.331	0.331	0.376	0.419	0.400	0.331	0.316	0.291	0.287	0.284	0.284
FBDD	0.440	0.439	0.439	0.439	0.439	0.439	0.441	0.558	0.583	0.583	0.583	0.488	0.488	0.497	0.516	0.516	0.596	0.675	0.640	0.516	0.488	0.443	0.441	0.440	0.440
MC	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.014	0.014	0.013	0.013	0.013	0.013	0.013
TAXI	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.009	0.009	0.009	0.010	0.010	0.010	0.011	0.011	0.010	0.009	0.009	0.009	0.009	0.009
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.055	0.067	0.069	0.069	0.069	0.060	0.060	0.061	0.063	0.063	0.071	0.080	0.075	0.063	0.060	0.055	0.055	0.054	0.054
PV5	0.189	0.187	0.187	0.187	0.187	0.187	0.192	0.234	0.243	0.243	0.243	0.210	0.210	0.213	0.219	0.219	0.247	0.273	0.262	0.219	0.210	0.194	0.192	0.189	0.189
NFB6	0.438	0.433	0.433	0.433	0.433	0.433	0.444	0.547	0.567	0.567	0.567	0.488	0.488	0.496	0.511	0.511	0.578	0.641	0.614	0.511	0.488	0.449	0.444	0.438	0.438
NFB7	0.823	0.814	0.814	0.814	0.814	0.814	0.832	0.998	1.031	1.031	1.031	0.905	0.905	0.917	0.942	0.942	1.048	1.148	1.104	0.942	0.905	0.842	0.832	0.823	0.823
NFB8	0.347	0.342	0.342	0.342	0.342	0.342	0.351	0.436	0.453	0.453	0.453	0.387	0.387	0.393	0.406	0.406	0.462	0.517	0.493	0.406	0.387	0.356	0.351	0.347	0.347
FBSD	0.295	0.292	0.292	0.292	0.292	0.292	0.298	0.364	0.378	0.378	0.378	0.327	0.327	0.331	0.341	0.341	0.385	0.427	0.409	0.341	0.327	0.302	0.298	0.295	0.295
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.1779</b>	<b>0.1307</b>	<b>0.1391</b>	<b>0.1710</b>	<b>0.1500</b>	<b>0.1344</b>	<b>0.1380</b>	<b>0.1475</b>	<b>0.3308</b>	<b>0.3528</b>	<b>0.3080</b>	<b>0.2626</b>	<b>0.2703</b>	<b>0.2678</b>	<b>0.2790</b>	<b>0.2827</b>	<b>0.3179</b>	<b>0.3403</b>	<b>0.2938</b>	<b>0.1550</b>	<b>0.1507</b>	<b>0.1838</b>	<b>0.2093</b>	<b>0.2644</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.29</b>	<b>0.21</b>	<b>0.22</b>	<b>0.28</b>	<b>0.24</b>	<b>0.22</b>	<b>0.22</b>	<b>0.24</b>	<b>0.53</b>	<b>0.57</b>	<b>0.50</b>	<b>0.42</b>	<b>0.44</b>	<b>0.43</b>	<b>0.45</b>	<b>0.46</b>	<b>0.51</b>	<b>0.55</b>	<b>0.47</b>	<b>0.25</b>	<b>0.24</b>	<b>0.30</b>	<b>0.34</b>	<b>0.43</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM5\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	10	7	5	4	5	11	28	106	152	165	219	217	187	179	203	200	197	193	209	187	142	38	19	9
2	LGV3	2	4	4	2	2	7	16	24	48	52	65	62	58	55	63	62	61	63	64	58	58	18	6	3
3	LGV4	1	1	1	3	2	7	10	14	32	34	54	52	48	46	53	52	52	53	52	48	48	11	5	2
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	1	1	1	3	2	7	10	14	32	34	49	47	44	42	48	47	47	48	47	44	45	14	4	2
6	HGV7	0	0	0	0	0	0	2	17	202	251	177	164	157	137	158	170	167	150	137	14	11	3	0	0
7	HGV8	0	0	0	0	0	0	4	28	156	179	80	70	80	73	94	90	64	64	99	31	23	8	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	6	6	6	6	6	6	6	5	4	4	4	4
10	TAXI	5	4	5	3	4	6	14	60	82	89	88	94	84	79	88	88	87	88	90	84	70	29	10	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
<b>Total Flow (veh)</b>		<b>40</b>	<b>25</b>	<b>23</b>	<b>21</b>	<b>21</b>	<b>44</b>	<b>97</b>	<b>286</b>	<b>741</b>	<b>845</b>	<b>832</b>	<b>801</b>	<b>744</b>	<b>693</b>	<b>803</b>	<b>804</b>	<b>768</b>	<b>755</b>	<b>798</b>	<b>552</b>	<b>468</b>	<b>186</b>	<b>104</b>	<b>71</b>

**NO2 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
LGV3	0.096	0.096	0.096	0.096	0.096	0.096	0.097	0.116	0.118	0.118	0.119	0.106	0.106	0.106	0.108	0.104	0.119	0.119	0.119	0.118	0.118	0.098	0.097	0.096	0.096
LGV4	0.080	0.080	0.080	0.080	0.080	0.080	0.081	0.099	0.101	0.101	0.102	0.090	0.090	0.090	0.091	0.088	0.102	0.102	0.102	0.101	0.101	0.082	0.081	0.080	0.080
PLB	0.065	0.065	0.065	0.065	0.065	0.065	0.066	0.080	0.081	0.081	0.083	0.072	0.072	0.072	0.073	0.071	0.083	0.083	0.083	0.081	0.081	0.066	0.066	0.065	0.065
LGV6	0.375	0.372	0.372	0.372	0.372	0.372	0.379	0.453	0.460	0.460	0.467	0.415	0.415	0.415	0.420	0.406	0.467	0.467	0.467	0.460	0.460	0.382	0.379	0.375	0.375
HGV7	0.551	0.545	0.545	0.545	0.545	0.545	0.557	0.685	0.696	0.696	0.708	0.620	0.620	0.620	0.628	0.604	0.708	0.708	0.708	0.696	0.696	0.563	0.557	0.551	0.551
HGV8	0.284	0.280	0.280	0.280	0.280	0.280	0.287	0.368	0.376	0.376	0.383	0.326	0.326	0.326	0.331	0.316	0.383	0.383	0.383	0.376	0.376	0.291	0.287	0.284	0.284
FBDD	0.440	0.439	0.439	0.439	0.439	0.439	0.441	0.583	0.596	0.596	0.610	0.506	0.506	0.506	0.516	0.488	0.610	0.610	0.610	0.596	0.596	0.443	0.441	0.440	0.440
MC	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.013	0.013	0.013	0.013
TAXI	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.009	0.009	0.009	0.010	0.009	0.010	0.010	0.010	0.010	0.010	0.009	0.009	0.009	0.009
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.055	0.069	0.071	0.071	0.072	0.062	0.062	0.062	0.063	0.060	0.072	0.072	0.072	0.071	0.071	0.055	0.055	0.054	0.054
PV5	0.189	0.187	0.187	0.187	0.187	0.187	0.192	0.243	0.247	0.247	0.252	0.216	0.216	0.216	0.219	0.210	0.252	0.252	0.252	0.247	0.247	0.194	0.192	0.189	0.189
NFB6	0.438	0.433	0.433	0.433	0.433	0.433	0.444	0.567	0.578	0.578	0.589	0.503	0.503	0.503	0.511	0.488	0.589	0.589	0.589	0.578	0.578	0.449	0.444	0.438	0.438
NFB7	0.823	0.814	0.814	0.814	0.814	0.814	0.832	1.031	1.048	1.048	1.066	0.929	0.929	0.929	0.942	0.905	1.066	1.066	1.066	1.048	1.048	0.842	0.832	0.823	0.823
NFB8	0.347	0.342	0.342	0.342	0.342	0.342	0.351	0.453	0.462	0.462	0.472	0.399	0.399	0.399	0.406	0.387	0.472	0.472	0.472	0.462	0.462	0.356	0.351	0.347	0.347
FBSD	0.295	0.292	0.292	0.292	0.292	0.292	0.298	0.378	0.385	0.385	0.392	0.336	0.336	0.336	0.341	0.327	0.392	0.392	0.392	0.385	0.385	0.302	0.298	0.295	0.295
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.1968</b>	<b>0.1359</b>	<b>0.1451</b>	<b>0.1710</b>	<b>0.1500</b>	<b>0.1344</b>	<b>0.1394</b>	<b>0.1489</b>	<b>0.3238</b>	<b>0.3395</b>	<b>0.2910</b>	<b>0.2446</b>	<b>0.2542</b>	<b>0.2471</b>	<b>0.2536</b>	<b>0.2496</b>	<b>0.2921</b>	<b>0.2832</b>	<b>0.2755</b>	<b>0.1732</b>	<b>0.1771</b>	<b>0.1932</b>	<b>0.2321</b>	<b>0.3005</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.32</b>	<b>0.22</b>	<b>0.23</b>	<b>0.28</b>	<b>0.24</b>	<b>0.22</b>	<b>0.22</b>	<b>0.24</b>	<b>0.52</b>	<b>0.55</b>	<b>0.47</b>	<b>0.39</b>	<b>0.41</b>	<b>0.40</b>	<b>0.41</b>	<b>0.40</b>	<b>0.47</b>	<b>0.46</b>	<b>0.44</b>	<b>0.28</b>	<b>0.29</b>	<b>0.31</b>	<b>0.37</b>	<b>0.48</b>



### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM7, Siu Lang Shui Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	0	0	0	0	0	0	1	4	8	10	7	5	5	5	7	5	5	7	5	1	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	8	15	18	11	9	9	9	11	9	9	11	11	2	0	0	0	
7	HGV8	0	0	0	0	0	0	6	13	14	8	7	7	7	8	7	8	8	8	4	2	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	1	3	6	8	4	2	2	2	4	2	2	4	4	2	0	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		0	0	0	0	0	2	21	47	55	31	24	24	24	31	24	24	31	31	14	3	0	0	0	

**NO2 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																							
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
LGV3	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110
LGV4	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
PLB	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075
LGV6	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431
HGV7	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646
HGV8	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342
FBDD	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536
MC	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
TAXI	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
PV4	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065
PV5	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227
NFB6	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528
NFB7	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969
NFB8	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420
FBSD	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0060	0.3455	0.3190	0.3145	0.3227	0.3477	0.3477	0.3477	0.3227	0.3477	0.3477	0.3227	0.3227	0.2000	0.2288	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.01	0.56	0.51	0.51	0.52	0.56	0.56	0.56	0.52	0.56	0.56	0.52	0.52	0.32	0.37	0.00	0.00	0.00



### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM9, Siu Lang Shui Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	0	0	0	0	0	1	4	10	13	9	6	6	6	9	5	6	8	9	6	1	1	0	0	
2	LGV3	0	0	0	0	0	0	0	2	1	2	1	2	2	1	2	2	2	2	2	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	9	18	21	13	11	11	11	13	11	11	13	13	2	0	0	0	0	
7	HGV8	0	0	0	0	0	0	7	15	16	8	8	7	7	8	8	5	8	8	4	2	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	1	3	6	8	4	3	2	3	4	3	3	4	4	3	0	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	0	0	

**NO2 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																							
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
LGV3	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112
LGV4	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095
PLB	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076
LGV6	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436
HGV7	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655
HGV8	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348
FBDD	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547
MC	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
TAXI	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
PV4	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066
PV5	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230
NFB6	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537
NFB7	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983
NFB8	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428
FBSD	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0061	0.3639	0.3146	0.3121	0.3217	0.3498	0.3535	0.3416	0.3217	0.3622	0.3411	0.3308	0.3217	0.1746	0.2328	0.0023	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.01	0.59	0.51	0.50	0.52	0.56	0.57	0.55	0.52	0.58	0.55	0.53	0.52	0.28	0.38	0.00	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM10\_Lung Fat Street  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	0	0	0	0	0	0	1	4	10	13	9	6	6	6	9	5	6	8	9	6	1	1	0	0
2	LGV3	0	0	0	0	0	0	0	0	2	1	2	1	2	2	1	2	2	2	2	2	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	9	18	21	13	11	11	11	13	11	11	13	13	2	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	7	15	16	8	8	7	7	8	8	5	8	8	4	2	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	1	3	6	8	4	3	2	3	4	3	3	4	4	3	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		0	0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	0	0

**NO2 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
LGV3	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112
LGV4	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095
PLB	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076
LGV6	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436
HGV7	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655
HGV8	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348
FBDD	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547
MC	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
TAXI	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
PV4	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066
PV5	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230
NFB6	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537
NFB7	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983
NFB8	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428
FBSD	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0061	0.3639	0.3146	0.3121	0.3217	0.3498	0.3535	0.3416	0.3217	0.3622	0.3411	0.3308	0.3217	0.1746	0.2328	0.0023	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.59	0.51	0.50	0.52	0.56	0.57	0.55	0.52	0.58	0.55	0.53	0.52	0.28	0.38	0.00	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM11\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	6	4	3	1	2	8	23	93	128	137	193	196	166	159	178	180	176	169	184	166	129	27	11	7
2	LGV3	2	4	4	2	2	6	13	19	38	43	56	54	50	47	54	54	52	54	55	50	53	18	6	3
3	LGV4	1	1	1	3	2	6	9	10	24	26	48	46	43	41	47	46	47	46	43	43	11	5	2	
4	PLB	5	3	2	2	2	2	3	6	6	6	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	1	1	1	3	2	6	9	10	25	26	43	41	39	37	42	41	42	41	39	40	14	4	2	
6	HGV7	0	0	0	0	0	0	2	6	177	222	159	149	142	122	140	155	152	132	119	10	10	3	0	0
7	HGV8	0	0	0	0	0	0	4	15	103	121	47	38	50	45	62	58	40	32	67	12	11	7	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	5	6	6	6	6	6	6	5	4	4	4	4
10	TAXI	4	3	3	2	3	5	12	52	67	72	74	81	73	67	74	75	74	74	76	72	63	23	5	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
<b>Total Flow (veh)</b>		<b>35</b>	<b>21</b>	<b>19</b>	<b>17</b>	<b>17</b>	<b>37</b>	<b>85</b>	<b>228</b>	<b>595</b>	<b>684</b>	<b>720</b>	<b>700</b>	<b>649</b>	<b>600</b>	<b>693</b>	<b>704</b>	<b>676</b>	<b>646</b>	<b>688</b>	<b>478</b>	<b>420</b>	<b>168</b>	<b>91</b>	<b>69</b>

**NO2 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
LGV3	0.096	0.096	0.096	0.096	0.096	0.096	0.097	0.116	0.118	0.118	0.119	0.106	0.106	0.106	0.108	0.104	0.119	0.119	0.119	0.118	0.118	0.098	0.097	0.096	0.096
LGV4	0.080	0.080	0.080	0.080	0.080	0.080	0.081	0.099	0.101	0.101	0.102	0.090	0.090	0.090	0.091	0.088	0.102	0.102	0.102	0.101	0.101	0.082	0.081	0.080	0.080
PLB	0.065	0.065	0.065	0.065	0.065	0.065	0.066	0.080	0.081	0.081	0.083	0.072	0.072	0.072	0.073	0.071	0.083	0.083	0.083	0.081	0.081	0.066	0.066	0.065	0.065
LGV6	0.375	0.372	0.372	0.372	0.372	0.372	0.379	0.453	0.460	0.460	0.467	0.415	0.415	0.415	0.420	0.406	0.467	0.467	0.467	0.460	0.460	0.382	0.379	0.375	0.375
HGV7	0.551	0.545	0.545	0.545	0.545	0.545	0.557	0.685	0.696	0.696	0.708	0.620	0.620	0.620	0.628	0.604	0.708	0.708	0.708	0.696	0.696	0.563	0.557	0.551	0.551
HGV8	0.284	0.280	0.280	0.280	0.280	0.280	0.287	0.368	0.376	0.376	0.383	0.326	0.326	0.326	0.331	0.316	0.383	0.383	0.383	0.376	0.376	0.291	0.287	0.284	0.284
FBDD	0.440	0.439	0.439	0.439	0.439	0.439	0.441	0.583	0.596	0.596	0.610	0.506	0.506	0.506	0.516	0.488	0.610	0.610	0.610	0.596	0.596	0.443	0.441	0.440	0.440
MC	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.013	0.013	0.013	0.013
TAXI	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.009	0.009	0.009	0.010	0.009	0.010	0.010	0.010	0.010	0.010	0.009	0.009	0.009	0.009
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.055	0.069	0.071	0.071	0.072	0.062	0.062	0.062	0.063	0.060	0.072	0.072	0.072	0.071	0.071	0.055	0.055	0.054	0.054
PV5	0.189	0.187	0.187	0.187	0.187	0.187	0.192	0.243	0.247	0.247	0.252	0.216	0.216	0.216	0.219	0.210	0.252	0.252	0.252	0.247	0.247	0.194	0.192	0.189	0.189
NFB6	0.438	0.433	0.433	0.433	0.433	0.433	0.444	0.567	0.578	0.578	0.589	0.503	0.503	0.503	0.511	0.488	0.589	0.589	0.589	0.578	0.578	0.449	0.444	0.438	0.438
NFB7	0.823	0.814	0.814	0.814	0.814	0.814	0.832	1.031	1.048	1.048	1.066	0.929	0.929	0.929	0.942	0.905	1.066	1.066	1.066	1.048	1.048	0.842	0.832	0.823	0.823
NFB8	0.347	0.342	0.342	0.342	0.342	0.342	0.351	0.453	0.462	0.462	0.472	0.399	0.399	0.399	0.406	0.387	0.472	0.472	0.472	0.462	0.462	0.356	0.351	0.347	0.347
FBSD	0.295	0.292	0.292	0.292	0.292	0.292	0.298	0.378	0.385	0.385	0.392	0.336	0.336	0.336	0.341	0.327	0.392	0.392	0.392	0.385	0.385	0.302	0.298	0.295	0.295
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.2244</b>	<b>0.1611</b>	<b>0.1745</b>	<b>0.2103</b>	<b>0.1844</b>	<b>0.1447</b>	<b>0.1499</b>	<b>0.1200</b>	<b>0.3309</b>	<b>0.3491</b>	<b>0.2945</b>	<b>0.2459</b>	<b>0.2566</b>	<b>0.2488</b>	<b>0.2562</b>	<b>0.2522</b>	<b>0.2964</b>	<b>0.2850</b>	<b>0.2763</b>	<b>0.1710</b>	<b>0.1767</b>	<b>0.2117</b>	<b>0.2646</b>	<b>0.3092</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.36</b>	<b>0.26</b>	<b>0.28</b>	<b>0.34</b>	<b>0.30</b>	<b>0.23</b>	<b>0.24</b>	<b>0.19</b>	<b>0.53</b>	<b>0.56</b>	<b>0.47</b>	<b>0.40</b>	<b>0.41</b>	<b>0.40</b>	<b>0.41</b>	<b>0.48</b>	<b>0.46</b>	<b>0.45</b>	<b>0.28</b>	<b>0.28</b>	<b>0.34</b>	<b>0.43</b>	<b>0.50</b>	<b>0.50</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM12\_Unnamed Road to EcoPark  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	4	3	2	3	3	3	4	9	14	15	17	15	14	16	15	15	16	16	15	12	10	8	2	
2	LGV3	0	0	0	0	0	1	3	5	8	8	7	6	6	7	7	7	7	7	6	5	0	0		
3	LGV4	0	0	0	0	0	1	1	4	6	6	6	5	5	6	6	5	6	6	5	5	0	0		
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5	LGV6	0	0	0	0	0	1	1	4	6	6	6	5	5	6	6	5	6	6	5	5	0	0		
6	HGV7	0	0	0	0	0	0	0	2	7	8	5	4	4	5	4	4	5	5	2	1	0	0		
7	HGV8	0	0	0	0	0	0	0	6	38	42	25	24	23	21	24	24	19	24	15	10	1	0		
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	1	1	2	1	1	1	1	5	9	9	10	10	9	9	10	10	10	10	9	7	6	5		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Total Flow (veh)</b>		<b>5</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>7</b>	<b>10</b>	<b>35</b>	<b>88</b>	<b>94</b>	<b>76</b>	<b>72</b>	<b>67</b>	<b>64</b>	<b>74</b>	<b>72</b>	<b>65</b>	<b>74</b>	<b>74</b>	<b>57</b>	<b>45</b>	<b>17</b>	<b>13</b>	<b>2</b>

**NO2 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
LGV3	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	
LGV4	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	
PLB	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	
LGV6	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	
HGV7	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	
HGV8	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	
FBDD	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	
MC	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	
TAXI	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	
PV4	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	
PV5	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	
NFB6	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	
NFB7	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	
NFB8	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	
FBSD	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.0041</b>	<b>0.0045</b>	<b>0.0066</b>	<b>0.0045</b>	<b>0.0045</b>	<b>0.1040</b>	<b>0.0977</b>	<b>0.1973</b>	<b>0.2839</b>	<b>0.2906</b>	<b>0.2395</b>	<b>0.2370</b>	<b>0.2380</b>	<b>0.2366</b>	<b>0.2406</b>	<b>0.2370</b>	<b>0.2227</b>	<b>0.2406</b>	<b>0.2406</b>	<b>0.1978</b>	<b>0.1864</b>	<b>0.0288</b>	<b>0.0057</b>	<b>0.0025</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.17</b>	<b>0.16</b>	<b>0.32</b>	<b>0.46</b>	<b>0.47</b>	<b>0.39</b>	<b>0.38</b>	<b>0.38</b>	<b>0.38</b>	<b>0.39</b>	<b>0.38</b>	<b>0.36</b>	<b>0.39</b>	<b>0.39</b>	<b>0.32</b>	<b>0.30</b>	<b>0.05</b>	<b>0.01</b>	<b>0.00</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM13\_Lung Yiu Street  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	4	2	1	1	0	3	10	20	32	34	26	23	22	24	23	23	24	24	22	13	4	6	1	
2	LGV3	1	1	0	1	0	1	5	12	18	19	12	11	10	9	11	11	11	12	10	3	3	2	0	
3	LGV4	0	0	0	0	0	0	4	6	14	15	10	9	8	7	9	9	10	8	5	2	1	2		
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	4	6	14	15	9	8	7	6	8	8	8	9	7	3	2	1	1	
6	HGV7	0	0	0	0	0	0	1	4	28	32	21	17	19	18	21	20	20	19	3	3	1	0	0	
7	HGV8	0	0	0	0	0	0	2	4	38	42	21	17	19	18	21	20	20	19	3	3	1	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0
10	TAXI	2	1	1	0	0	0	5	12	19	21	12	11	10	10	11	11	11	12	10	4	3	2	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		<b>7</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>4</b>	<b>31</b>	<b>70</b>	<b>169</b>	<b>184</b>	<b>118</b>	<b>103</b>	<b>102</b>	<b>97</b>	<b>112</b>	<b>109</b>	<b>109</b>	<b>110</b>	<b>112</b>	<b>64</b>	<b>35</b>	<b>16</b>	<b>13</b>	<b>4</b>

**NO2 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
LGV3	0.114	0.114	0.114	0.114	0.114	0.114	0.118	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.121	0.121	0.121	0.119	0.119	0.119	0.119	0.114	
LGV4	0.098	0.098	0.098	0.098	0.098	0.098	0.101	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.104	0.104	0.104	0.102	0.102	0.102	0.102	0.098	
PLB	0.079	0.079	0.079	0.079	0.079	0.079	0.081	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.084	0.084	0.084	0.083	0.083	0.083	0.083	0.079	
LGV6	0.447	0.447	0.447	0.447	0.447	0.447	0.460	0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.473	0.473	0.473	0.467	0.467	0.467	0.467	0.447	
HGV7	0.675	0.675	0.675	0.675	0.675	0.675	0.696	0.708	0.708	0.708	0.708	0.708	0.708	0.708	0.708	0.720	0.720	0.720	0.708	0.708	0.708	0.708	0.708	0.675	
HGV8	0.361	0.361	0.361	0.361	0.361	0.361	0.376	0.383	0.383	0.383	0.383	0.383	0.383	0.383	0.383	0.392	0.392	0.392	0.383	0.383	0.383	0.383	0.383	0.361	
FBDD	0.570	0.570	0.570	0.570	0.570	0.570	0.596	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.625	0.625	0.625	0.610	0.610	0.610	0.610	0.570	
MC	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.014	0.014	0.014	0.014	0.014	0.014	
TAXI	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.010	0.010	0.010	0.010	0.010	0.010	
PV4	0.068	0.068	0.068	0.068	0.068	0.068	0.071	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.073	0.073	0.073	0.072	0.072	0.072	0.072	0.068	
PV5	0.238	0.238	0.238	0.238	0.238	0.238	0.247	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.257	0.257	0.257	0.252	0.252	0.252	0.252	0.238	
NFB6	0.557	0.557	0.557	0.557	0.557	0.557	0.578	0.589	0.589	0.589	0.589	0.589	0.589	0.589	0.589	0.589	0.601	0.601	0.601	0.589	0.589	0.589	0.589	0.557	
NFB7	1.014	1.014	1.014	1.014	1.014	1.014	1.048	1.066	1.066	1.066	1.066	1.066	1.066	1.066	1.066	1.084	1.084	1.084	1.066	1.066	1.066	1.066	1.066	1.014	
NFB8	0.444	0.444	0.444	0.444	0.444	0.444	0.462	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.482	0.482	0.482	0.472	0.472	0.472	0.472	0.472	0.444	
FBSD	0.371	0.371	0.371	0.371	0.371	0.371	0.385	0.392	0.392	0.392	0.392	0.392	0.392	0.392	0.392	0.400	0.400	0.400	0.392	0.392	0.392	0.392	0.392	0.371	
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.0206</b>	<b>0.0323</b>	<b>0.0062</b>	<b>0.0584</b>	<b>0.0000</b>	<b>0.0304</b>	<b>0.1404</b>	<b>0.1948</b>	<b>0.2901</b>	<b>0.2941</b>	<b>0.2884</b>	<b>0.2812</b>	<b>0.2984</b>	<b>0.2955</b>	<b>0.2976</b>	<b>0.2957</b>	<b>0.3011</b>	<b>0.2984</b>	<b>0.2894</b>	<b>0.1363</b>	<b>0.1609</b>	<b>0.1643</b>	<b>0.0660</b>	<b>0.1612</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.03</b>	<b>0.05</b>	<b>0.01</b>	<b>0.09</b>	<b>0.00</b>	<b>0.05</b>	<b>0.23</b>	<b>0.31</b>	<b>0.47</b>	<b>0.47</b>	<b>0.47</b>	<b>0.45</b>	<b>0.48</b>	<b>0.48</b>	<b>0.48</b>	<b>0.48</b>	<b>0.49</b>	<b>0.48</b>	<b>0.47</b>	<b>0.22</b>	<b>0.26</b>	<b>0.26</b>	<b>0.11</b>	<b>0.26</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM14\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																								
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
1	PC	2	2	2	0	2	5	13	73	96	103	167	173	144	137	154	157	153	145	160	144	116	23	5	6	
2	LGV3	1	3	4	1	2	5	8	7	20	24	44	43	40	38	43	43	41	43	43	40	50	15	4	3	
3	LGV4	1	1	1	3	2	6	5	4	10	11	38	37	35	34	38	37	38	38	36	35	38	9	4	0	
4	PLB	5	3	2	2	2	2	3	6	6	6	12	11	10	10	11	11	11	12	10	8	8	7	6	6	
5	LGV6	1	1	1	3	2	6	5	4	11	11	34	33	32	31	34	33	34	34	32	32	37	12	3	1	
6	HGV7	0	0	0	0	0	0	1	2	149	190	138	132	123	104	119	135	132	112	100	7	7	2	0	0	
7	HGV8	0	0	0	0	0	0	2	11	65	79	26	21	31	27	41	38	20	12	48	9	8	6	2	0	
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	6	
9	MC	0	0	0	0	0	0	0	1	1	1	5	5	4	5	5	5	5	5	4	4	4	3	4	4	
10	TAXI	2	2	2	2	3	5	7	40	48	51	62	70	63	57	63	64	63	64	63	64	62	59	20	3	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2	2
13	NFB6	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	9	9
14	NFB7	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	9	9
15	NFB8	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	13	13	13	11	9	8	8	7	7
<b>Total Flow (veh)</b>		<b>28</b>	<b>17</b>	<b>17</b>	<b>15</b>	<b>17</b>	<b>33</b>	<b>54</b>	<b>158</b>	<b>426</b>	<b>500</b>	<b>602</b>	<b>597</b>	<b>547</b>	<b>503</b>	<b>581</b>	<b>595</b>	<b>567</b>	<b>536</b>	<b>576</b>	<b>414</b>	<b>385</b>	<b>152</b>	<b>78</b>	<b>65</b>	

**NO2 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																									
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00		
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
LGV3	0.096	0.096	0.096	0.096	0.096	0.096	0.097	0.116	0.118	0.118	0.119	0.106	0.106	0.106	0.108	0.104	0.119	0.119	0.119	0.118	0.118	0.098	0.097	0.097	0.096	0.096
LGV4	0.080	0.080	0.080	0.080	0.080	0.080	0.081	0.099	0.101	0.101	0.102	0.090	0.090	0.090	0.091	0.088	0.102	0.102	0.102	0.101	0.101	0.082	0.081	0.080	0.080	0.080
PLB	0.065	0.065	0.065	0.065	0.065	0.065	0.066	0.080	0.081	0.081	0.083	0.072	0.072	0.072	0.073	0.071	0.083	0.083	0.083	0.081	0.081	0.066	0.066	0.066	0.065	0.065
LGV6	0.375	0.372	0.372	0.372	0.372	0.372	0.379	0.453	0.460	0.460	0.467	0.415	0.415	0.415	0.420	0.406	0.467	0.467	0.467	0.460	0.460	0.382	0.379	0.375	0.375	0.375
HGV7	0.551	0.545	0.545	0.545	0.545	0.545	0.557	0.685	0.696	0.696	0.708	0.620	0.620	0.620	0.628	0.604	0.708	0.708	0.708	0.696	0.696	0.563	0.557	0.551	0.551	0.551
HGV8	0.284	0.280	0.280	0.280	0.280	0.280	0.287	0.368	0.376	0.376	0.383	0.326	0.326	0.326	0.331	0.316	0.383	0.383	0.383	0.376	0.376	0.291	0.287	0.284	0.284	0.284
FBDD	0.440	0.439	0.439	0.439	0.439	0.439	0.441	0.583	0.596	0.596	0.610	0.506	0.506	0.506	0.516	0.488	0.610	0.610	0.610	0.596	0.596	0.443	0.441	0.440	0.440	0.440
MC	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.013	0.013	0.013	0.013	0.013
TAXI	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.009	0.009	0.009	0.010	0.009	0.010	0.010	0.010	0.010	0.010	0.009	0.009	0.009	0.009	0.009
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.055	0.069	0.071	0.071	0.072	0.062	0.062	0.062	0.063	0.060	0.072	0.072	0.072	0.071	0.071	0.055	0.055	0.054	0.054	0.054
PV5	0.189	0.187	0.187	0.187	0.187	0.187	0.192	0.243	0.247	0.247	0.252	0.216	0.216	0.216	0.219	0.210	0.252	0.252	0.252	0.247	0.247	0.194	0.192	0.189	0.189	0.189
NFB6	0.438	0.433	0.433	0.433	0.433	0.433	0.444	0.567	0.578	0.578	0.589	0.503	0.503	0.503	0.511	0.488	0.589	0.589	0.589	0.578	0.578	0.449	0.444	0.438	0.438	0.438
NFB7	0.823	0.814	0.814	0.814	0.814	0.814	0.832	1.031	1.048	1.048	1.066	0.929	0.929	0.929	0.942	0.905	1.066	1.066	1.066	1.048	1.048	0.842	0.832	0.823	0.823	0.823
NFB8	0.347	0.342	0.342	0.342	0.342	0.342	0.351	0.453	0.462	0.462	0.472	0.399	0.399	0.399	0.406	0.387	0.472	0.472	0.472	0.462	0.462	0.356	0.351	0.347	0.347	0.347
FBSD	0.295	0.292	0.292	0.292	0.292	0.292	0.298	0.378	0.385	0.385	0.392	0.336	0.336	0.336	0.341	0.327	0.392	0.392	0.392	0.385	0.385	0.302	0.298	0.295	0.295	0.295
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.2762</b>	<b>0.1926</b>	<b>0.1944</b>	<b>0.2319</b>	<b>0.1844</b>	<b>0.1591</b>	<b>0.1708</b>	<b>0.0897</b>	<b>0.3491</b>	<b>0.3712</b>	<b>0.2957</b>	<b>0.2462</b>	<b>0.2560</b>	<b>0.2472</b>	<b>0.2550</b>	<b>0.2525</b>	<b>0.2965</b>	<b>0.2833</b>	<b>0.2748</b>	<b>0.1767</b>	<b>0.1783</b>	<b>0.2201</b>	<b>0.2997</b>	<b>0.3199</b>	
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.45</b>	<b>0.31</b>	<b>0.31</b>	<b>0.37</b>	<b>0.30</b>	<b>0.26</b>	<b>0.28</b>	<b>0.14</b>	<b>0.56</b>	<b>0.60</b>	<b>0.48</b>	<b>0.40</b>	<b>0.41</b>	<b>0.40</b>	<b>0.41</b>	<b>0.48</b>	<b>0.46</b>	<b>0.44</b>	<b>0.29</b>	<b>0.29</b>	<b>0.35</b>	<b>0.48</b>	<b>0.52</b>	<b>0.52</b>	



### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM15\_Lung Yiu Street  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	3	1	1	1	0	2	7	14	22	23	11	9	9	9	9	9	9	9	9	5	1	4	1	
2	LGV3	1	1	0	1	0	1	3	9	13	13	4	4	3	3	4	4	3	4	4	0	1	2	0	
3	LGV4	0	0	0	0	0	2	2	2	9	10	3	4	3	2	3	4	4	3	4	3	1	1	2	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	2	2	9	10	2	3	2	1	2	3	3	2	3	2	0	1	1	1	
6	HGV7	0	0	0	0	0	1	2	18	21	16	12	15	14	17	15	15	16	14	1	2	0	0		
7	HGV8	0	0	0	0	0	1	2	24	27	16	12	15	14	17	15	15	16	14	1	2	0	0		
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1		
10	TAXI	1	0	1	0	0	3	9	13	15	2	2	1	2	1	2	2	1	2	1	1	1	1		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0		
14	NFB7	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0		
15	NFB8	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Total Flow (veh)</b>		<b>5</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>19</b>	<b>46</b>	<b>114</b>	<b>125</b>	<b>58</b>	<b>50</b>	<b>53</b>	<b>49</b>	<b>56</b>	<b>56</b>	<b>54</b>	<b>54</b>	<b>22</b>	<b>12</b>	<b>5</b>	<b>10</b>	<b>4</b>	

**NO2 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
LGV3	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	
LGV4	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	
PLB	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	
LGV6	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	
HGV7	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	
HGV8	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	
FBDD	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	
MC	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	
TAXI	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	
PV4	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	
PV5	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	
NFB6	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	
NFB7	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	
NFB8	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	
FBSD	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.0237</b>	<b>0.0525</b>	<b>0.0056</b>	<b>0.0525</b>	<b>0.0000</b>	<b>0.0357</b>	<b>0.1177</b>	<b>0.1596</b>	<b>0.2423</b>	<b>0.2468</b>	<b>0.3071</b>	<b>0.2933</b>	<b>0.3187</b>	<b>0.3143</b>	<b>0.3322</b>	<b>0.3105</b>	<b>0.3105</b>	<b>0.3277</b>	<b>0.3052</b>	<b>0.1102</b>	<b>0.1613</b>	<b>0.1205</b>	<b>0.0726</b>	<b>0.1443</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.04</b>	<b>0.08</b>	<b>0.01</b>	<b>0.08</b>	<b>0.00</b>	<b>0.06</b>	<b>0.19</b>	<b>0.26</b>	<b>0.39</b>	<b>0.40</b>	<b>0.50</b>	<b>0.47</b>	<b>0.51</b>	<b>0.51</b>	<b>0.54</b>	<b>0.50</b>	<b>0.50</b>	<b>0.53</b>	<b>0.49</b>	<b>0.18</b>	<b>0.26</b>	<b>0.19</b>	<b>0.12</b>	<b>0.23</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM16\_Lung Hong Street  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	1	1	0	0	0	1	3	6	10	11	15	14	13	13	15	14	15	15	13	8	3	2	0	
2	LGV3	0	0	0	0	0	0	2	3	5	6	8	7	6	8	7	7	8	8	6	3	2	0	0	
3	LGV4	0	0	0	0	0	0	2	4	5	5	7	5	5	6	5	6	6	6	5	4	1	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	2	4	5	5	7	5	5	6	5	5	6	6	5	3	1	0	0	
6	HGV7	0	0	0	0	0	0	0	2	10	11	5	5	4	4	5	5	4	5	2	1	1	0	0	
7	HGV8	0	0	0	0	0	0	1	2	14	15	5	5	4	4	5	5	4	5	2	1	1	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	1	1	0	0	0	0	2	3	6	6	10	9	9	8	10	9	9	10	10	9	3	2	1	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>12</b>	<b>24</b>	<b>55</b>	<b>59</b>	<b>60</b>	<b>53</b>	<b>49</b>	<b>48</b>	<b>56</b>	<b>53</b>	<b>53</b>	<b>56</b>	<b>42</b>	<b>23</b>	<b>11</b>	<b>3</b>	<b>0</b>	

**NO2 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
LGV3	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	
LGV4	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	
PLB	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	
LGV6	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	
HGV7	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	
HGV8	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	
FBDD	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	
MC	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	
TAXI	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	
PV4	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	
PV5	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	
NFB6	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	
NFB7	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	
NFB8	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	
FBSD	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.0057</b>	<b>0.0057</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0021</b>	<b>0.1280</b>	<b>0.1737</b>	<b>0.2460</b>	<b>0.2467</b>	<b>0.1799</b>	<b>0.1828</b>	<b>0.1768</b>	<b>0.1803</b>	<b>0.1675</b>	<b>0.1828</b>	<b>0.1828</b>	<b>0.1675</b>	<b>0.1776</b>	<b>0.1201</b>	<b>0.1237</b>	<b>0.1497</b>	<b>0.0045</b>	<b>0.0000</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.01</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.21</b>	<b>0.28</b>	<b>0.40</b>	<b>0.40</b>	<b>0.29</b>	<b>0.29</b>	<b>0.29</b>	<b>0.29</b>	<b>0.27</b>	<b>0.29</b>	<b>0.29</b>	<b>0.27</b>	<b>0.29</b>	<b>0.19</b>	<b>0.20</b>	<b>0.24</b>	<b>0.01</b>	<b>0.00</b>







































# Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

0499746 TMFB

Pollutant Name: NO

Speed km/hr	PC ALL	LGV3 ALL	LGV4 ALL	PLB ALL	LGV6 ALL	HGV7 ALL	HGV8 ALL	HGV8b ALL	FBDD ALL	MC ALL	TAXI ALL	PV4 ALL	PV5 ALL	NFB6 ALL	NFB7 ALL	NFB8 ALL	FBSD ALL
10	0.081	2.273	2.097	1.833	2.559	3.690	7.911	6.088	10.922	0.340	0.964	0.826	1.645	3.477	6.077	12.845	9.036
17	0.061	1.749	1.605	1.487	1.994	2.756	5.398	4.124	7.027	0.314	0.752	0.632	1.188	2.462	4.488	8.697	6.299
18	0.059	1.700	1.558	1.451	1.941	2.671	5.180	3.955	6.709	0.311	0.732	0.612	1.147	2.372	4.344	8.339	6.060
27	0.049	1.391	1.257	1.198	1.599	2.135	3.876	2.937	4.858	0.288	0.614	0.482	0.891	1.822	3.447	6.202	4.617
28	0.048	1.367	1.232	1.176	1.571	2.092	3.778	2.859	4.721	0.286	0.605	0.471	0.871	1.779	3.376	6.042	4.508
29	0.047	1.343	1.209	1.154	1.545	2.052	3.686	2.787	4.593	0.284	0.598	0.460	0.852	1.739	3.309	5.892	4.405
30	0.046	1.321	1.187	1.134	1.520	2.013	3.599	2.718	4.473	0.282	0.591	0.450	0.834	1.701	3.246	5.750	4.307
31	0.046	1.296	1.157	1.114	1.493	1.974	3.518	2.653	4.360	0.280	0.584	0.431	0.817	1.665	3.184	5.618	4.216
32	0.045	1.276	1.138	1.096	1.470	1.940	3.441	2.592	4.253	0.278	0.576	0.422	0.801	1.631	3.127	5.492	4.129
33	0.044	1.257	1.119	1.078	1.448	1.907	3.369	2.534	4.153	0.277	0.569	0.414	0.785	1.599	3.073	5.374	4.048
34	0.044	1.239	1.101	1.060	1.428	1.876	3.300	2.479	4.057	0.275	0.562	0.406	0.771	1.568	3.021	5.262	3.970
35	0.043	1.221	1.083	1.044	1.408	1.846	3.235	2.427	3.967	0.273	0.555	0.399	0.757	1.539	2.972	5.156	3.896
36	0.043	1.205	1.067	1.028	1.389	1.817	3.174	2.378	3.881	0.272	0.548	0.391	0.743	1.511	2.924	5.055	3.826
37	0.042	1.189	1.051	1.013	1.371	1.790	3.115	2.330	3.800	0.270	0.542	0.385	0.730	1.484	2.879	4.960	3.760
38	0.042	1.174	1.036	0.998	1.353	1.764	3.059	2.285	3.722	0.269	0.536	0.378	0.718	1.459	2.836	4.869	3.696
39	0.041	1.159	1.022	0.984	1.337	1.739	3.006	2.242	3.649	0.268	0.530	0.372	0.706	1.434	2.794	4.783	3.636
40	0.041	1.145	1.008	0.971	1.321	1.715	2.956	2.201	3.578	0.266	0.525	0.366	0.695	1.411	2.755	4.700	3.578
41	0.040	1.132	0.995	0.958	1.305	1.691	2.908	2.161	3.510	0.265	0.519	0.361	0.685	1.388	2.716	4.622	3.523
42	0.040	1.119	0.982	0.946	1.290	1.669	2.861	2.123	3.446	0.264	0.514	0.355	0.674	1.367	2.679	4.546	3.470
43	0.039	1.106	0.970	0.934	1.276	1.648	2.817	2.087	3.384	0.263	0.509	0.350	0.664	1.346	2.644	4.475	3.419
44	0.039	1.094	0.958	0.923	1.262	1.627	2.775	2.052	3.325	0.262	0.505	0.345	0.655	1.326	2.609	4.406	3.370
45	0.039	1.083	0.947	0.912	1.248	1.607	2.735	2.018	3.268	0.261	0.500	0.340	0.646	1.307	2.576	4.340	3.324
50	0.037	1.031	0.895	0.868	1.187	1.516	2.555	1.868	3.015	0.257	0.479	0.319	0.605	1.220	2.427	4.049	3.116
51	0.037	1.022	0.887	0.860	1.176	1.500	2.524	1.841	3.005	0.256	0.476	0.316	0.598	1.204	2.400	3.997	3.079
52	0.037	1.014	0.879	0.853	1.165	1.484	2.493	1.815	2.995	0.256	0.472	0.312	0.590	1.189	2.374	3.947	3.043
53	0.036	1.007	0.871	0.847	1.154	1.469	2.463	1.790	2.986	0.255	0.469	0.309	0.584	1.175	2.348	3.899	3.009
54	0.036	0.999	0.864	0.841	1.144	1.454	2.435	1.765	2.977	0.255	0.466	0.306	0.577	1.160	2.324	3.853	2.975

EMFAC-HK Model (v 4.1) Key Assumptions:

- Mode: EMFAC
- Calendar Year 2019
- Temperature and relative humidity 24 degree C, 77% (2018 average at Tuen Mun Weather Station)
- Vehicle Population (external traffic) Default (i.e. HGV8 emission factors for Roads R1 to R7, R9, R25 to R28)
- Vehicle Population (internal traffic) All HGV8 (year 2019) are of Euro V standard (i.e. HGV8b emission factors for Roads R8, R11, R14, R15 and R17)
- Vehicle Accrual Default
- Trips: Default (not used. No starting emissions as parking restrictions apply for all identified major roads within the Study Area)
- VKT: Default (not used in EMFAC mode)



### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM1\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	16	11	8	5	6	12	32	113	163	176	247	240	209	200	228	223	220	218	236	209	160	51	32	19
2	LGV3	7	5	5	3	3	8	17	29	55	59	76	71	66	63	72	71	70	72	75	66	66	25	13	8
3	LGV4	4	2	2	3	2	7	11	17	36	38	62	58	54	52	59	58	59	60	54	54	17	11	6	
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	4	2	2	3	2	7	11	17	36	38	57	53	50	48	54	53	54	55	50	51	20	10	6	
6	HGV7	0	0	0	0	0	0	4	20	286	364	274	254	231	225	261	262	268	251	214	16	12	4	0	0
7	HGV8	0	0	0	0	0	0	10	48	666	831	645	590	565	524	632	621	628	588	496	39	28	10	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	5	6	6	6	6	6	6	5	4	4	4	4
10	TAXI	9	5	6	4	5	7	15	64	88	96	100	103	92	87	99	97	96	99	102	92	76	34	15	5
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	5	5	4	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	5	5	4	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
<b>Total Flow (veh)</b>		<b>61</b>	<b>33</b>	<b>30</b>	<b>24</b>	<b>24</b>	<b>47</b>	<b>113</b>	<b>331</b>	<b>1367</b>	<b>1643</b>	<b>1561</b>	<b>1464</b>	<b>1353</b>	<b>1281</b>	<b>1501</b>	<b>1480</b>	<b>1486</b>	<b>1437</b>	<b>1338</b>	<b>612</b>	<b>518</b>	<b>226</b>	<b>141</b>	<b>98</b>

**NO emission factor (g/Veh.km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.037	0.036	0.036	0.036	0.036	0.036	0.037	0.043	0.048	0.049	0.043	0.040	0.040	0.039	0.040	0.044	0.046	0.046	0.041	0.041	0.041	0.037	0.037	0.037	0.037
LGV3	1.014	1.007	1.007	1.007	1.007	1.007	1.022	1.221	1.367	1.391	1.221	1.132	1.119	1.094	1.132	1.132	1.239	1.343	1.296	1.145	1.145	1.031	1.022	1.014	
LGV4	0.879	0.871	0.871	0.871	0.871	0.871	0.887	1.083	1.232	1.257	1.083	0.995	0.982	0.958	0.995	0.995	1.101	1.209	1.157	1.008	1.008	0.895	0.887	0.879	
PLB	0.853	0.847	0.847	0.847	0.847	0.847	0.860	1.044	1.176	1.198	1.044	0.958	0.946	0.923	0.958	0.958	1.060	1.154	1.114	0.971	0.971	0.868	0.860	0.853	
LGV6	1.165	1.154	1.154	1.154	1.154	1.154	1.176	1.408	1.571	1.599	1.408	1.305	1.290	1.262	1.305	1.305	1.428	1.545	1.493	1.321	1.321	1.187	1.176	1.165	
HGV7	1.484	1.469	1.469	1.469	1.469	1.469	1.500	1.846	2.092	2.135	1.846	1.691	1.669	1.627	1.691	1.691	1.876	2.052	1.974	1.715	1.715	1.516	1.500	1.484	
HGV8	2.493	2.463	2.463	2.463	2.463	2.463	2.524	3.235	3.778	3.876	3.235	2.908	2.861	2.775	2.908	2.908	3.300	3.686	3.518	2.956	2.956	2.555	2.524	2.493	
FBDD	2.995	2.986	2.986	2.986	2.986	2.986	3.005	3.967	4.721	4.858	3.967	3.510	3.446	3.325	3.510	3.510	4.057	4.593	4.360	3.578	3.578	3.015	3.005	2.995	
MC	0.256	0.255	0.255	0.255	0.255	0.255	0.256	0.273	0.286	0.288	0.273	0.265	0.264	0.262	0.265	0.265	0.275	0.284	0.280	0.266	0.266	0.257	0.256	0.256	
TAXI	0.472	0.469	0.469	0.469	0.469	0.469	0.476	0.555	0.605	0.614	0.555	0.519	0.514	0.505	0.519	0.519	0.562	0.598	0.584	0.525	0.525	0.479	0.476	0.472	
PV4	0.312	0.309	0.309	0.309	0.309	0.309	0.316	0.399	0.471	0.482	0.399	0.361	0.355	0.345	0.361	0.361	0.406	0.460	0.431	0.366	0.366	0.319	0.316	0.312	
PV5	0.590	0.584	0.584	0.584	0.584	0.584	0.598	0.757	0.871	0.891	0.757	0.685	0.674	0.655	0.685	0.685	0.771	0.852	0.817	0.695	0.695	0.605	0.598	0.590	
NFB6	1.189	1.175	1.175	1.175	1.175	1.175	1.204	1.539	1.779	1.822	1.539	1.388	1.367	1.326	1.388	1.388	1.568	1.739	1.665	1.411	1.411	1.220	1.204	1.189	
NFB7	2.374	2.348	2.348	2.348	2.348	2.348	2.400	2.972	3.376	3.447	2.972	2.716	2.679	2.609	2.716	2.716	3.021	3.309	3.184	2.755	2.755	2.427	2.400	2.374	
NFB8	3.947	3.899	3.899	3.899	3.899	3.899	3.997	5.156	6.042	6.202	5.156	4.622	4.546	4.406	4.622	4.622	5.262	5.892	5.618	4.700	4.700	4.049	3.997	3.947	
FBSD	3.043	3.009	3.009	3.009	3.009	3.009	3.079	3.896	4.508	4.617	3.896	3.523	3.470	3.370	3.523	3.523	3.970	4.405	4.216	3.578	3.578	3.116	3.079	3.043	
<b>Total composite emission factor (g/Veh/km)</b>		<b>1.0316</b>	<b>0.8420</b>	<b>0.9100</b>	<b>0.9700</b>	<b>0.9066</b>	<b>0.8101</b>	<b>0.9696</b>	<b>1.1078</b>	<b>2.5327</b>	<b>2.6691</b>	<b>2.0294</b>	<b>1.8064</b>	<b>1.8137</b>	<b>1.7496</b>	<b>1.8541</b>	<b>1.8544</b>	<b>2.1017</b>	<b>2.2936</b>	<b>2.0763</b>	<b>0.9915</b>	<b>1.0015</b>	<b>1.1026</b>	<b>1.1987</b>	<b>1.4107</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>1.66</b>	<b>1.36</b>	<b>1.47</b>	<b>1.56</b>	<b>1.46</b>	<b>1.31</b>	<b>1.56</b>	<b>1.79</b>	<b>4.08</b>	<b>4.31</b>	<b>3.27</b>	<b>2.91</b>	<b>2.93</b>	<b>2.82</b>	<b>2.99</b>	<b>2.99</b>	<b>3.39</b>	<b>3.70</b>	<b>3.35</b>	<b>1.60</b>	<b>1.62</b>	<b>1.78</b>	<b>1.93</b>	<b>2.28</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM2\_Unnamed Road to River Trade Terminal  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	4	3	2	1	1	1	3	5	8	17	13	13	13	15	13	15	17	13	10	7	7	5		
2	LGV3	3	1	1	1	1	1	3	5	5	5	5	4	5	5	5	5	5	4	3	3	3	3		
3	LGV4	2	1	1	0	0	0	1	2	3	3	4	3	3	3	3	3	3	4	3	3	3	2		
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5	LGV6	2	1	1	0	0	0	1	2	3	3	4	3	3	3	3	3	4	3	3	3	3	2		
6	HGV7	0	0	0	0	0	0	2	2	64	69	57	52	38	56	63	54	59	63	65	1	1	0		
7	HGV8	0	0	0	0	0	0	6	16	396	406	333	306	277	265	314	311	324	314	331	2	2	0		
8	FBDD	0	0	0	0	0	0	0	0	396	406	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	2	1	1	1	1	1	1	2	4	5	5	3	3	3	5	3	3	5	5	3	1	1		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Total Flow (veh)</b>		13	7	6	3	3	3	15	32	483	499	425	385	341	347	408	392	410	408	431	29	24	19	17	

**NO emission factor (g/Veh.km, EMFAC Veh categories)**

Description	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
PC	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.059	0.059	0.059	0.059	0.059	
LGV3	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.749	1.749	1.749	1.749	1.749	1.749	1.749	1.749	1.749	1.749	1.749	1.700	1.700	1.700	1.700	1.700	
LGV4	1.558	1.558	1.558	1.558	1.558	1.558	1.558	1.558	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.558	1.558	1.558	1.558	1.558	
PLB	1.451	1.451	1.451	1.451	1.451	1.451	1.451	1.451	1.487	1.487	1.487	1.487	1.487	1.487	1.487	1.487	1.487	1.487	1.487	1.451	1.451	1.451	1.451	1.451	
LGV6	1.941	1.941	1.941	1.941	1.941	1.941	1.941	1.941	1.994	1.994	1.994	1.994	1.994	1.994	1.994	1.994	1.994	1.994	1.994	1.941	1.941	1.941	1.941	1.941	
HGV7	2.671	2.671	2.671	2.671	2.671	2.671	2.671	2.671	2.756	2.756	2.756	2.756	2.756	2.756	2.756	2.756	2.756	2.756	2.756	2.671	2.671	2.671	2.671	2.671	
HGV8	5.180	5.180	5.180	5.180	5.180	5.180	5.180	5.180	5.398	5.398	5.398	5.398	5.398	5.398	5.398	5.398	5.398	5.398	5.398	5.180	5.180	5.180	5.180	5.180	
FBDD	6.709	6.709	6.709	6.709	6.709	6.709	6.709	6.709	7.027	7.027	7.027	7.027	7.027	7.027	7.027	7.027	7.027	7.027	7.027	6.709	6.709	6.709	6.709	6.709	
MC	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.311	0.311	0.311	0.311	0.311	
TAXI	0.732	0.732	0.732	0.732	0.732	0.732	0.732	0.732	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.732	0.732	0.732	0.732	0.732	
PV4	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.632	0.632	0.632	0.632	0.632	0.632	0.632	0.632	0.632	0.632	0.632	0.612	0.612	0.612	0.612	0.612	
PV5	1.147	1.147	1.147	1.147	1.147	1.147	1.147	1.147	1.188	1.188	1.188	1.188	1.188	1.188	1.188	1.188	1.188	1.188	1.188	1.147	1.147	1.147	1.147	1.147	
NFB6	2.372	2.372	2.372	2.372	2.372	2.372	2.372	2.372	2.462	2.462	2.462	2.462	2.462	2.462	2.462	2.462	2.462	2.462	2.462	2.372	2.372	2.372	2.372	2.372	
NFB7	4.344	4.344	4.344	4.344	4.344	4.344	4.344	4.344	4.488	4.488	4.488	4.488	4.488	4.488	4.488	4.488	4.488	4.488	4.488	4.344	4.344	4.344	4.344	4.344	
NFB8	8.339	8.339	8.339	8.339	8.339	8.339	8.339	8.339	8.697	8.697	8.697	8.697	8.697	8.697	8.697	8.697	8.697	8.697	8.697	8.339	8.339	8.339	8.339	8.339	
FBSD	6.060	6.060	6.060	6.060	6.060	6.060	6.060	6.060	6.299	6.299	6.299	6.299	6.299	6.299	6.299	6.299	6.299	6.299	6.299	6.060	6.060	6.060	6.060	6.060	
<b>Total composite emission factor (g/Veh/km)</b>		1.0614	0.8726	1.0082	0.8304	0.8304	0.8304	2.8351	3.1897	4.8385	4.8207	4.6648	4.7212	4.7531	4.6272	4.6392	4.7198	4.7174	4.6392	4.6260	1.1480	1.3187	1.2943	0.9848	1.0096
<b>Total composite emission factor (g/Veh/mile)</b>		1.71	1.41	1.63	1.34	1.34	1.34	4.57	5.14	7.80	7.78	7.52	7.61	7.67	7.46	7.48	7.61	7.61	7.48	7.46	1.85	2.13	2.09	1.59	1.63

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM3\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	12	8	6	4	5	11	29	108	155	168	230	227	196	187	213	210	207	203	219	196	150	44	25	14
2	LGV3	4	4	4	2	2	7	16	26	50	54	71	66	62	59	67	66	65	67	70	62	62	22	10	5
3	LGV4	2	1	1	3	2	7	10	15	33	35	58	55	51	49	56	55	56	56	51	51	14	8	4	4
4	PLB	5	3	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6	6
5	LGV6	2	1	1	3	2	7	10	15	33	35	53	50	47	45	51	50	50	51	51	47	48	17	7	4
6	HGV7	0	0	0	0	0	0	2	18	222	295	217	202	193	169	198	208	209	188	149	15	11	3	0	0
7	HGV8	0	0	0	0	0	0	4	32	270	425	312	284	288	259	318	310	304	274	165	37	26	9	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	5	6	6	6	6	6	6	5	4	4	4	4
10	TAXI	7	4	5	3	4	6	14	62	84	91	95	100	89	84	94	94	93	94	97	89	75	33	14	4
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	5	5	4	4	4	3	2	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	5	5	4	4	4	3	2	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
<b>Total Flow (veh)</b>		<b>48</b>	<b>26</b>	<b>24</b>	<b>21</b>	<b>21</b>	<b>44</b>	<b>98</b>	<b>299</b>	<b>884</b>	<b>1144</b>	<b>1136</b>	<b>1079</b>	<b>1012</b>	<b>934</b>	<b>1093</b>	<b>1088</b>	<b>1076</b>	<b>1029</b>	<b>907</b>	<b>583</b>	<b>494</b>	<b>207</b>	<b>124</b>	<b>85</b>

**NO emission factor (g/Veh.km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.037	0.036	0.036	0.036	0.036	0.036	0.037	0.042	0.043	0.043	0.043	0.039	0.039	0.039	0.040	0.040	0.044	0.046	0.046	0.040	0.039	0.037	0.037	0.037	0.037
LGV3	1.014	1.007	1.007	1.007	1.007	1.007	1.022	1.189	1.221	1.221	1.221	1.094	1.094	1.106	1.132	1.132	1.239	1.343	1.296	1.132	1.094	1.031	1.022	1.014	1.014
LGV4	0.879	0.871	0.871	0.871	0.871	0.871	0.887	1.051	1.083	1.083	1.083	0.958	0.958	0.970	0.995	0.995	1.101	1.209	1.157	0.995	0.958	0.895	0.887	0.879	0.879
PLB	0.853	0.847	0.847	0.847	0.847	0.847	0.860	1.013	1.044	1.044	1.044	0.923	0.923	0.934	0.958	0.958	1.060	1.154	1.114	0.958	0.923	0.868	0.860	0.853	0.853
LGV6	1.165	1.154	1.154	1.154	1.154	1.154	1.176	1.371	1.408	1.408	1.408	1.262	1.262	1.276	1.305	1.305	1.428	1.545	1.493	1.305	1.262	1.187	1.176	1.165	1.165
HGV7	1.484	1.469	1.469	1.469	1.469	1.469	1.500	1.790	1.846	1.846	1.846	1.627	1.627	1.648	1.691	1.691	1.876	2.052	1.974	1.691	1.627	1.516	1.500	1.484	1.484
HGV8	2.493	2.463	2.463	2.463	2.463	2.463	2.524	3.115	3.235	3.235	3.235	2.775	2.775	2.817	2.908	2.908	3.300	3.686	3.518	2.908	2.775	2.555	2.524	2.493	2.493
FBDD	2.995	2.986	2.986	2.986	2.986	2.986	3.005	3.800	3.967	3.967	3.967	3.325	3.325	3.384	3.510	3.510	4.057	4.593	4.360	3.510	3.325	3.015	3.005	2.995	2.995
MC	0.256	0.255	0.255	0.255	0.255	0.255	0.256	0.270	0.273	0.273	0.273	0.262	0.262	0.263	0.265	0.265	0.275	0.284	0.280	0.265	0.262	0.257	0.256	0.256	0.256
TAXI	0.472	0.469	0.469	0.469	0.469	0.469	0.476	0.542	0.555	0.555	0.555	0.505	0.505	0.509	0.519	0.519	0.562	0.598	0.584	0.519	0.505	0.479	0.476	0.472	0.472
PV4	0.312	0.309	0.309	0.309	0.309	0.309	0.316	0.385	0.399	0.399	0.399	0.345	0.345	0.350	0.361	0.361	0.406	0.460	0.431	0.361	0.345	0.319	0.316	0.312	0.312
PV5	0.590	0.584	0.584	0.584	0.584	0.584	0.598	0.730	0.757	0.757	0.757	0.655	0.655	0.664	0.685	0.685	0.771	0.852	0.817	0.685	0.655	0.605	0.598	0.590	0.590
NFB6	1.189	1.175	1.175	1.175	1.175	1.175	1.204	1.484	1.539	1.539	1.539	1.326	1.326	1.346	1.388	1.388	1.568	1.739	1.665	1.388	1.326	1.220	1.204	1.189	1.189
NFB7	2.374	2.348	2.348	2.348	2.348	2.348	2.400	2.879	2.972	2.972	2.972	2.609	2.609	2.644	2.716	2.716	3.021	3.309	3.184	2.716	2.609	2.427	2.400	2.374	2.374
NFB8	3.947	3.899	3.899	3.899	3.899	3.899	3.997	4.960	5.156	5.156	5.156	4.406	4.406	4.475	4.622	4.622	5.262	5.892	5.618	4.622	4.406	4.049	3.997	3.947	3.947
FBSD	3.043	3.009	3.009	3.009	3.009	3.009	3.079	3.760	3.896	3.896	3.896	3.370	3.370	3.419	3.523	3.523	3.970	4.405	4.216	3.523	3.370	3.116	3.079	3.043	3.043
<b>Total composite emission factor (g/Veh/km)</b>		<b>1.1398</b>	<b>0.9299</b>	<b>0.9885</b>	<b>1.0365</b>	<b>0.9641</b>	<b>0.8310</b>	<b>0.8954</b>	<b>0.9753</b>	<b>1.7822</b>	<b>1.9577</b>	<b>1.7304</b>	<b>1.4671</b>	<b>1.5221</b>	<b>1.5218</b>	<b>1.5989</b>	<b>1.5940</b>	<b>1.7910</b>	<b>1.9346</b>	<b>1.6146</b>	<b>0.9900</b>	<b>0.9563</b>	<b>1.1354</b>	<b>1.2825</b>	<b>1.5349</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>1.84</b>	<b>1.50</b>	<b>1.59</b>	<b>1.67</b>	<b>1.56</b>	<b>1.34</b>	<b>1.44</b>	<b>1.57</b>	<b>2.87</b>	<b>3.16</b>	<b>2.79</b>	<b>2.37</b>	<b>2.46</b>	<b>2.45</b>	<b>2.58</b>	<b>2.57</b>	<b>2.89</b>	<b>3.12</b>	<b>2.60</b>	<b>1.60</b>	<b>1.54</b>	<b>1.83</b>	<b>2.07</b>	<b>2.48</b>



### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM5\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	10	7	5	4	5	11	28	106	152	165	219	217	187	179	203	200	197	193	209	187	142	38	19	9
2	LGV3	2	4	4	2	2	7	16	24	48	52	65	62	58	55	63	62	61	63	64	58	58	18	6	3
3	LGV4	1	1	1	3	2	7	10	14	32	34	54	52	48	46	53	52	52	53	52	48	48	11	5	2
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	1	1	1	3	2	7	10	14	32	34	49	47	44	42	48	47	47	48	47	44	45	14	4	2
6	HGV7	0	0	0	0	0	0	2	17	202	251	177	164	157	137	158	170	167	150	137	14	11	3	0	0
7	HGV8	0	0	0	0	0	0	4	28	156	179	80	70	80	73	94	90	64	64	99	31	23	8	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	6	6	6	6	6	6	6	5	4	4	4	4
10	TAXI	5	4	5	3	4	6	14	60	82	89	88	94	84	79	88	88	87	88	90	84	70	29	10	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	5	5	4	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
<b>Total Flow (veh)</b>		<b>40</b>	<b>25</b>	<b>23</b>	<b>21</b>	<b>21</b>	<b>44</b>	<b>97</b>	<b>286</b>	<b>741</b>	<b>845</b>	<b>832</b>	<b>801</b>	<b>744</b>	<b>693</b>	<b>803</b>	<b>804</b>	<b>768</b>	<b>755</b>	<b>798</b>	<b>552</b>	<b>468</b>	<b>186</b>	<b>104</b>	<b>71</b>

**NO emission factor (g/Veh.km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.037	0.036	0.036	0.036	0.036	0.036	0.037	0.043	0.044	0.044	0.044	0.040	0.040	0.040	0.040	0.039	0.044	0.044	0.044	0.044	0.044	0.044	0.037	0.037	0.037
LGV3	1.014	1.007	1.007	1.007	1.007	1.007	1.022	1.221	1.239	1.239	1.257	1.119	1.119	1.119	1.132	1.094	1.257	1.257	1.257	1.239	1.239	1.031	1.022	1.014	
LGV4	0.879	0.871	0.871	0.871	0.871	0.871	0.887	1.083	1.101	1.101	1.119	0.982	0.982	0.982	0.995	0.958	1.119	1.119	1.119	1.101	1.101	0.895	0.887	0.879	
PLB	0.853	0.847	0.847	0.847	0.847	0.847	0.860	1.044	1.060	1.060	1.078	0.946	0.946	0.946	0.958	0.923	1.078	1.078	1.078	1.060	1.060	0.868	0.860	0.853	
LGV6	1.165	1.154	1.154	1.154	1.154	1.154	1.176	1.408	1.428	1.428	1.448	1.290	1.290	1.290	1.305	1.262	1.448	1.448	1.448	1.428	1.428	1.187	1.176	1.165	
HGV7	1.484	1.469	1.469	1.469	1.469	1.469	1.500	1.846	1.876	1.876	1.907	1.669	1.669	1.669	1.691	1.627	1.907	1.907	1.907	1.876	1.876	1.516	1.500	1.484	
HGV8	2.493	2.463	2.463	2.463	2.463	2.463	2.524	3.235	3.300	3.300	3.369	2.861	2.861	2.861	2.908	2.775	3.369	3.369	3.369	3.300	3.300	2.555	2.524	2.493	
FBDD	2.995	2.986	2.986	2.986	2.986	2.986	3.005	3.967	4.057	4.057	4.153	3.446	3.446	3.446	3.510	3.325	4.153	4.153	4.153	4.057	4.057	3.015	3.005	2.995	
MC	0.256	0.255	0.255	0.255	0.255	0.255	0.256	0.273	0.275	0.275	0.277	0.264	0.264	0.264	0.265	0.262	0.277	0.277	0.277	0.275	0.275	0.257	0.256	0.256	
TAXI	0.472	0.469	0.469	0.469	0.469	0.469	0.476	0.555	0.562	0.562	0.569	0.514	0.514	0.514	0.519	0.505	0.569	0.569	0.569	0.569	0.562	0.562	0.479	0.476	0.472
PV4	0.312	0.309	0.309	0.309	0.309	0.309	0.316	0.399	0.406	0.406	0.414	0.355	0.355	0.355	0.361	0.345	0.414	0.414	0.414	0.406	0.406	0.319	0.316	0.312	
PV5	0.590	0.584	0.584	0.584	0.584	0.584	0.598	0.757	0.771	0.771	0.785	0.674	0.674	0.674	0.685	0.655	0.785	0.785	0.785	0.785	0.771	0.771	0.605	0.598	0.590
NFB6	1.189	1.175	1.175	1.175	1.175	1.175	1.204	1.539	1.568	1.568	1.599	1.367	1.367	1.367	1.388	1.326	1.599	1.599	1.599	1.568	1.568	1.220	1.204	1.189	
NFB7	2.374	2.348	2.348	2.348	2.348	2.348	2.400	2.972	3.021	3.021	3.073	2.679	2.679	2.679	2.716	2.609	3.073	3.073	3.073	3.021	3.021	2.427	2.400	2.374	
NFB8	3.947	3.899	3.899	3.899	3.899	3.899	3.997	5.156	5.262	5.262	5.374	4.546	4.546	4.546	4.622	4.406	5.374	5.374	5.374	5.262	5.262	4.049	3.997	3.947	
FBSD	3.043	3.009	3.009	3.009	3.009	3.009	3.079	3.896	3.970	3.970	4.048	3.470	3.470	3.470	3.523	3.370	4.048	4.048	4.048	3.970	3.970	3.116	3.079	3.043	
<b>Total composite emission factor (g/Veh/km)</b>		<b>1.2405</b>	<b>0.9656</b>	<b>1.0299</b>	<b>1.0365</b>	<b>0.9641</b>	<b>0.8310</b>	<b>0.9043</b>	<b>0.9802</b>	<b>1.5981</b>	<b>1.6336</b>	<b>1.3936</b>	<b>1.1706</b>	<b>1.2299</b>	<b>1.2150</b>	<b>1.2625</b>	<b>1.2119</b>	<b>1.3782</b>	<b>1.3732</b>	<b>1.4305</b>	<b>1.0987</b>	<b>1.1156</b>	<b>1.1827</b>	<b>1.4099</b>	<b>1.7288</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>2.00</b>	<b>1.56</b>	<b>1.66</b>	<b>1.67</b>	<b>1.56</b>	<b>1.34</b>	<b>1.46</b>	<b>1.58</b>	<b>2.58</b>	<b>2.63</b>	<b>2.25</b>	<b>1.89</b>	<b>1.98</b>	<b>1.96</b>	<b>2.04</b>	<b>1.95</b>	<b>2.22</b>	<b>2.21</b>	<b>2.31</b>	<b>1.77</b>	<b>1.80</b>	<b>1.91</b>	<b>2.27</b>	<b>2.79</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM7, Siu Lang Shui Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	0	0	0	0	0	0	1	4	8	10	11	5	5	7	5	5	7	7	5	1	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3	LGV4	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	8	15	18	11	9	9	9	11	9	9	11	11	2	0	0	0	
7	HGV8	0	0	0	0	0	0	6	13	14	8	7	7	7	8	7	7	8	8	4	2	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	1	3	6	8	4	2	2	2	4	2	2	4	4	2	0	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		0	0	0	0	0	2	21	47	55	31	24	24	24	31	24	24	31	31	14	3	0	0	0	

**NO emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	
LGV3	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	
LGV4	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	
PLB	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	
LGV6	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	
HGV7	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	
HGV8	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	
FBDD	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	
MC	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	
TAXI	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	
PV4	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	
PV5	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	
NFB6	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	
NFB7	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	
NFB8	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	
FBSD	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2858	1.6050	1.5779	1.5187	1.5080	1.6300	1.6300	1.6300	1.5080	1.6300	1.6300	1.5080	1.5080	1.2806	2.0180	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.46	2.59	2.55	2.45	2.43	2.63	2.63	2.63	2.43	2.63	2.63	2.43	2.43	2.07	3.25	0.00	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM8\_Unnamed Road to Cemetery  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	0	0	0	0	0	0	0	2	3	2	1	1	1	2	0	1	2	1	2	1	0	1	0	0
2	LGV3	0	0	0	0	0	0	0	1	0	1	0	1	1	1	0	1	1	1	1	1	1	0	0	
3	LGV4	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	1	3	3	2	2	2	2	2	2	2	2	2	2	2	0	0	0	
7	HGV8	0	0	0	0	0	0	1	2	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	0	1	0	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		0	0	0	0	0	0	2	11	12	5	5	4	5	5	4	5	4	5	4	5	3	0	0	

**NO emission factor (g/Veh.km, EMFAC Veh categories)**

Description	Hour																							
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
PC	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039
LGV3	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106
LGV4	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970
PLB	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934
LGV6	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276
HGV7	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648
HGV8	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817
FBDD	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384
MC	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263
TAXI	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509
PV4	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350
PV5	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664
NFB6	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346
NFB7	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644
NFB8	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475
FBSD	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.2325	1.3273	1.2341	0.8961	1.3323	1.1103	0.9901	0.8961	1.6555	0.9901	1.1103	0.8961	0.5517	0.0000	0.0395	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	3.60	2.14	1.99	1.45	2.15	1.79	1.60	1.45	2.67	1.60	1.79	1.45	0.89	0.00	0.06	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM9, Siu Lang Shui Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	0	0	0	0	0	0	1	4	10	13	9	6	6	6	9	5	6	8	9	6	1	1	0	0
2	LGV3	0	0	0	0	0	0	0	0	2	1	2	1	2	2	2	1	2	2	2	2	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	9	18	21	13	11	11	11	13	11	11	13	13	2	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	7	15	16	8	8	7	7	8	8	5	8	8	4	2	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	1	3	6	8	4	3	2	3	4	3	3	4	4	3	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		0	0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	0	0

**NO emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	
LGV3	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	
LGV4	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	
PLB	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	
LGV6	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	
HGV7	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	
HGV8	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	
FBDD	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	
MC	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	
TAXI	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	
PV4	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	
PV5	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	
NFB6	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	
NFB7	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	
NFB8	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	
FBSD	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2889	1.6985	1.5697	1.5040	1.4520	1.6176	1.5889	1.5526	1.4520	1.6739	1.4410	1.4923	1.4520	1.1748	2.0535	0.0416	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.47	2.74	2.53	2.43	2.34	2.61	2.56	2.50	2.34	2.70	2.32	2.41	2.34	1.89	3.31	0.07	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM10\_Lung Fat Street  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	0	0	0	0	0	0	1	4	10	13	9	6	6	9	5	6	8	9	6	1	1	0	0	
2	LGV3	0	0	0	0	0	0	0	0	2	1	2	1	2	2	1	2	2	2	2	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	9	18	21	13	11	11	11	13	11	13	13	2	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	7	15	16	8	8	7	7	8	5	8	8	4	2	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	1	3	6	8	4	3	2	3	4	3	3	4	4	3	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		0	0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	0	0

**NO emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	
LGV3	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	
LGV4	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	
PLB	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	
LGV6	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	
HGV7	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	
HGV8	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	
FBDD	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	
MC	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	
TAXI	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	
PV4	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	
PV5	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	
NFB6	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	
NFB7	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	
NFB8	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	
FBSD	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2889	1.6985	1.5697	1.5040	1.4520	1.6176	1.5889	1.5526	1.4520	1.6739	1.4410	1.4923	1.4520	1.1748	2.0535	0.0416	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.47	2.74	2.53	2.43	2.34	2.61	2.56	2.50	2.34	2.70	2.32	2.41	2.34	1.89	3.31	0.07	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM11\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	6	4	3	1	2	8	23	93	128	137	193	196	166	159	178	180	176	169	184	166	129	27	11	7
2	LGV3	2	4	4	2	2	6	13	19	38	43	56	54	50	47	54	54	52	54	55	50	53	18	6	3
3	LGV4	1	1	1	3	2	6	9	10	24	26	48	46	43	41	47	46	47	47	46	43	43	11	5	2
4	PLB	5	3	2	2	2	2	3	6	6	6	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	1	1	1	3	2	6	9	10	25	26	43	41	39	37	42	41	42	42	41	39	40	14	4	2
6	HGV7	0	0	0	0	0	0	2	6	177	222	159	149	142	122	140	155	152	132	119	10	10	3	0	0
7	HGV8	0	0	0	0	0	0	4	15	103	121	47	38	50	45	62	58	40	32	67	12	11	7	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	6	6	6	6	6	6	6	5	4	4	4	4
10	TAXI	4	3	3	2	3	5	12	52	67	72	74	81	73	67	74	75	74	74	76	72	63	23	5	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
<b>Total Flow (veh)</b>		<b>35</b>	<b>21</b>	<b>19</b>	<b>17</b>	<b>17</b>	<b>37</b>	<b>85</b>	<b>228</b>	<b>595</b>	<b>684</b>	<b>720</b>	<b>700</b>	<b>649</b>	<b>600</b>	<b>693</b>	<b>704</b>	<b>676</b>	<b>646</b>	<b>688</b>	<b>478</b>	<b>420</b>	<b>168</b>	<b>91</b>	<b>69</b>

**NO emission factor (g/Veh.km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.037	0.036	0.036	0.036	0.036	0.036	0.037	0.043	0.044	0.044	0.044	0.040	0.040	0.040	0.040	0.039	0.044	0.044	0.044	0.044	0.044	0.044	0.037	0.037	0.037
LGV3	1.014	1.007	1.007	1.007	1.007	1.007	1.022	1.221	1.239	1.239	1.257	1.119	1.119	1.119	1.132	1.094	1.257	1.257	1.257	1.239	1.239	1.031	1.022	1.014	
LGV4	0.879	0.871	0.871	0.871	0.871	0.871	0.887	1.083	1.101	1.101	1.119	0.982	0.982	0.982	0.995	0.958	1.119	1.119	1.119	1.101	1.101	0.895	0.887	0.879	
PLB	0.853	0.847	0.847	0.847	0.847	0.847	0.860	1.044	1.060	1.060	1.078	0.946	0.946	0.946	0.958	0.923	1.078	1.078	1.078	1.060	1.060	0.868	0.860	0.853	
LGV6	1.165	1.154	1.154	1.154	1.154	1.154	1.176	1.408	1.428	1.428	1.448	1.290	1.290	1.290	1.305	1.262	1.448	1.448	1.448	1.428	1.428	1.187	1.176	1.165	
HGV7	1.484	1.469	1.469	1.469	1.469	1.469	1.500	1.846	1.876	1.876	1.907	1.669	1.669	1.669	1.691	1.627	1.907	1.907	1.907	1.876	1.876	1.516	1.500	1.484	
HGV8	2.493	2.463	2.463	2.463	2.463	2.463	2.524	3.235	3.300	3.300	3.369	2.861	2.861	2.861	2.908	2.775	3.369	3.369	3.369	3.300	3.300	2.555	2.524	2.493	
FBDD	2.995	2.986	2.986	2.986	2.986	2.986	3.005	3.967	4.057	4.057	4.153	3.446	3.446	3.446	3.510	3.325	4.153	4.153	4.153	4.057	4.057	3.015	3.005	2.995	
MC	0.256	0.255	0.255	0.255	0.255	0.255	0.256	0.273	0.275	0.275	0.277	0.264	0.264	0.264	0.265	0.262	0.277	0.277	0.277	0.275	0.275	0.257	0.256	0.256	
TAXI	0.472	0.469	0.469	0.469	0.469	0.469	0.476	0.555	0.562	0.562	0.569	0.514	0.514	0.514	0.519	0.505	0.569	0.569	0.569	0.569	0.562	0.562	0.479	0.476	0.472
PV4	0.312	0.309	0.309	0.309	0.309	0.309	0.316	0.399	0.406	0.406	0.414	0.355	0.355	0.355	0.361	0.345	0.414	0.414	0.414	0.406	0.406	0.319	0.316	0.312	
PV5	0.590	0.584	0.584	0.584	0.584	0.584	0.598	0.757	0.771	0.771	0.785	0.674	0.674	0.674	0.685	0.655	0.785	0.785	0.785	0.785	0.771	0.771	0.605	0.598	0.590
NFB6	1.189	1.175	1.175	1.175	1.175	1.175	1.204	1.539	1.568	1.568	1.599	1.367	1.367	1.367	1.388	1.326	1.599	1.599	1.599	1.568	1.568	1.220	1.204	1.189	
NFB7	2.374	2.348	2.348	2.348	2.348	2.348	2.400	2.972	3.021	3.021	3.073	2.679	2.679	2.679	2.716	2.609	3.073	3.073	3.073	3.021	3.021	2.427	2.400	2.374	
NFB8	3.947	3.899	3.899	3.899	3.899	3.899	3.997	5.156	5.262	5.262	5.374	4.546	4.546	4.546	4.622	4.406	5.374	5.374	5.374	5.262	5.262	4.049	3.997	3.947	
FBSD	3.043	3.009	3.009	3.009	3.009	3.009	3.079	3.896	3.970	3.970	4.048	3.470	3.470	3.470	3.523	3.370	4.048	4.048	4.048	3.970	3.970	3.116	3.079	3.043	
<b>Total composite emission factor (g/Veh/km)</b>		<b>1.4000</b>	<b>1.1220</b>	<b>1.1936</b>	<b>1.2464</b>	<b>1.1570</b>	<b>0.8907</b>	<b>0.9583</b>	<b>0.8636</b>	<b>1.5420</b>	<b>1.5909</b>	<b>1.3586</b>	<b>1.1299</b>	<b>1.1978</b>	<b>1.1826</b>	<b>1.2381</b>	<b>1.1815</b>	<b>1.3558</b>	<b>1.3296</b>	<b>1.4006</b>	<b>1.0587</b>	<b>1.0888</b>	<b>1.2746</b>	<b>1.5820</b>	<b>1.7779</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>2.26</b>	<b>1.81</b>	<b>1.93</b>	<b>2.01</b>	<b>1.87</b>	<b>1.44</b>	<b>1.55</b>	<b>1.39</b>	<b>2.49</b>	<b>2.57</b>	<b>2.19</b>	<b>1.82</b>	<b>1.93</b>	<b>1.91</b>	<b>2.00</b>	<b>1.91</b>	<b>2.19</b>	<b>2.14</b>	<b>2.26</b>	<b>1.71</b>	<b>1.76</b>	<b>2.06</b>	<b>2.55</b>	<b>2.87</b>

## Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

**District:** Tuen Mun Fill Bank  
**Road Section:** TM12\_Unnamed Road to EcoPark  
**Year:** 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	4	3	2	3	3	3	4	9	14	15	17	15	15	14	16	15	15	16	16	15	12	10	8	2
2	LGV3	0	0	0	0	0	1	3	5	8	8	7	7	6	6	7	7	7	7	7	6	5	0	0	0
3	LGV4	0	0	0	0	0	1	1	4	6	6	6	6	5	6	6	5	6	6	6	5	5	0	0	0
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	1	1	4	6	6	6	5	5	6	6	5	6	6	6	5	5	0	0	0
6	HGV7	0	0	0	0	0	0	0	2	7	8	5	4	4	5	4	4	5	5	5	2	1	0	0	0
7	HGV8	0	0	0	0	0	0	0	6	38	42	25	24	23	21	24	24	19	24	24	15	10	1	0	0
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	1	1	2	1	1	1	1	5	9	9	10	10	9	9	10	10	10	10	10	9	7	6	5	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		<b>5</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>7</b>	<b>10</b>	<b>35</b>	<b>88</b>	<b>94</b>	<b>76</b>	<b>72</b>	<b>67</b>	<b>64</b>	<b>74</b>	<b>72</b>	<b>65</b>	<b>74</b>	<b>74</b>	<b>57</b>	<b>45</b>	<b>17</b>	<b>13</b>	<b>2</b>

**NO emission factor (g/Veh.km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
LGV3	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296
LGV4	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157
PLB	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114
LGV6	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493
HGV7	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974
HGV8	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518
FBDD	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360
MC	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280
TAXI	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584
PV4	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431
PV5	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817
NFB6	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665
NFB7	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184
NFB8	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618
FBSD	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.1532</b>	<b>0.1801</b>	<b>0.3146</b>	<b>0.1801</b>	<b>0.1801</b>	<b>0.6667</b>	<b>0.7305</b>	<b>1.2991</b>	<b>2.0417</b>	<b>2.0826</b>	<b>1.7028</b>	<b>1.7198</b>	<b>1.7280</b>	<b>1.6984</b>	<b>1.7006</b>	<b>1.7198</b>	<b>1.5936</b>	<b>1.7006</b>	<b>1.7006</b>	<b>1.4682</b>	<b>1.3671</b>	<b>0.4398</b>	<b>0.2526</b>	<b>0.0456</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.25</b>	<b>0.29</b>	<b>0.51</b>	<b>0.29</b>	<b>0.29</b>	<b>1.08</b>	<b>1.18</b>	<b>2.10</b>	<b>3.29</b>	<b>3.36</b>	<b>2.75</b>	<b>2.77</b>	<b>2.79</b>	<b>2.74</b>	<b>2.74</b>	<b>2.77</b>	<b>2.57</b>	<b>2.74</b>	<b>2.74</b>	<b>2.37</b>	<b>2.21</b>	<b>0.71</b>	<b>0.41</b>	<b>0.07</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM13 Lung Yiu Street  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	4	2	1	1	0	3	10	20	32	34	26	23	22	22	24	23	23	24	24	22	13	4	6	1
2	LGV3	1	1	0	1	0	1	5	12	18	19	12	11	10	9	11	11	11	11	12	10	3	3	2	0
3	LGV4	0	0	0	0	0	0	4	6	14	15	10	9	8	7	9	9	10	8	5	2	1	2	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	4	6	14	15	9	8	7	6	8	8	8	9	7	3	2	1	1	
6	HGV7	0	0	0	0	0	0	1	4	28	32	21	17	19	18	21	20	20	19	3	3	1	0	0	
7	HGV8	0	0	0	0	0	0	2	4	38	42	21	17	19	18	21	20	20	19	3	3	1	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0
10	TAXI	2	1	1	0	0	0	5	12	19	21	12	11	10	10	11	11	11	12	10	4	3	2	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		<b>7</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>4</b>	<b>31</b>	<b>70</b>	<b>169</b>	<b>184</b>	<b>118</b>	<b>103</b>	<b>102</b>	<b>97</b>	<b>112</b>	<b>109</b>	<b>109</b>	<b>110</b>	<b>112</b>	<b>64</b>	<b>35</b>	<b>16</b>	<b>13</b>	<b>4</b>

**NO emission factor (g/Veh/km, EMFAC Veh categories)**

Description	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	0:00
PC	0.043	0.043	0.043	0.043	0.043	0.043	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.045	0.045	0.045	0.044	0.044	0.044	0.044	0.044	0.043
LGV3	1.205	1.205	1.205	1.205	1.205	1.205	1.239	1.257	1.257	1.257	1.257	1.257	1.257	1.257	1.257	1.257	1.276	1.276	1.276	1.257	1.257	1.257	1.257	1.257	1.205
LGV4	1.067	1.067	1.067	1.067	1.067	1.067	1.101	1.119	1.119	1.119	1.119	1.119	1.119	1.119	1.119	1.119	1.138	1.138	1.138	1.119	1.119	1.119	1.119	1.119	1.067
PLB	1.028	1.028	1.028	1.028	1.028	1.028	1.060	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.096	1.096	1.096	1.078	1.078	1.078	1.078	1.078	1.028
LGV6	1.389	1.389	1.389	1.389	1.389	1.389	1.428	1.448	1.448	1.448	1.448	1.448	1.448	1.448	1.448	1.448	1.470	1.470	1.470	1.448	1.448	1.448	1.448	1.448	1.389
HGV7	1.817	1.817	1.817	1.817	1.817	1.817	1.876	1.907	1.907	1.907	1.907	1.907	1.907	1.907	1.907	1.907	1.940	1.940	1.940	1.907	1.907	1.907	1.907	1.907	1.817
HGV8	3.174	3.174	3.174	3.174	3.174	3.174	3.300	3.369	3.369	3.369	3.369	3.369	3.369	3.369	3.369	3.369	3.441	3.441	3.441	3.369	3.369	3.369	3.369	3.369	3.174
FBDD	3.881	3.881	3.881	3.881	3.881	3.881	4.057	4.153	4.153	4.153	4.153	4.153	4.153	4.153	4.153	4.153	4.253	4.253	4.253	4.153	4.153	4.153	4.153	4.153	3.881
MC	0.272	0.272	0.272	0.272	0.272	0.272	0.275	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.278	0.278	0.278	0.277	0.277	0.277	0.277	0.277	0.272
TAXI	0.548	0.548	0.548	0.548	0.548	0.548	0.562	0.569	0.569	0.569	0.569	0.569	0.569	0.569	0.569	0.569	0.576	0.576	0.576	0.569	0.569	0.569	0.569	0.569	0.548
PV4	0.391	0.391	0.391	0.391	0.391	0.391	0.406	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.422	0.422	0.422	0.414	0.414	0.414	0.414	0.414	0.391
PV5	0.743	0.743	0.743	0.743	0.743	0.743	0.771	0.785	0.785	0.785	0.785	0.785	0.785	0.785	0.785	0.785	0.801	0.801	0.801	0.785	0.785	0.785	0.785	0.785	0.743
NFB6	1.511	1.511	1.511	1.511	1.511	1.511	1.568	1.599	1.599	1.599	1.599	1.599	1.599	1.599	1.599	1.599	1.631	1.631	1.631	1.599	1.599	1.599	1.599	1.599	1.511
NFB7	2.924	2.924	2.924	2.924	2.924	2.924	3.021	3.073	3.073	3.073	3.073	3.073	3.073	3.073	3.073	3.073	3.127	3.127	3.127	3.073	3.073	3.073	3.073	3.073	2.924
NFB8	5.055	5.055	5.055	5.055	5.055	5.055	5.262	5.374	5.374	5.374	5.374	5.374	5.374	5.374	5.374	5.374	5.492	5.492	5.492	5.374	5.374	5.374	5.374	5.374	5.055
FBSD	3.826	3.826	3.826	3.826	3.826	3.826	3.970	4.048	4.048	4.048	4.048	4.048	4.048	4.048	4.048	4.048	4.129	4.129	4.129	4.048	4.048	4.048	4.048	4.048	3.826
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.3531</b>	<b>0.4596</b>	<b>0.2955</b>	<b>0.6237</b>	<b>0.0000</b>	<b>0.3331</b>	<b>0.9042</b>	<b>1.1342</b>	<b>1.6112</b>	<b>1.6220</b>	<b>1.5123</b>	<b>1.4837</b>	<b>1.5582</b>	<b>1.5447</b>	<b>1.5533</b>	<b>1.5472</b>	<b>1.5762</b>	<b>1.5623</b>	<b>1.5262</b>	<b>0.8504</b>	<b>0.9333</b>	<b>1.0040</b>	<b>0.5201</b>	<b>0.8914</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.57</b>	<b>0.74</b>	<b>0.48</b>	<b>1.01</b>	<b>0.00</b>	<b>0.54</b>	<b>1.46</b>	<b>1.83</b>	<b>2.60</b>	<b>2.62</b>	<b>2.44</b>	<b>2.39</b>	<b>2.51</b>	<b>2.49</b>	<b>2.51</b>	<b>2.50</b>	<b>2.54</b>	<b>2.52</b>	<b>2.46</b>	<b>1.37</b>	<b>1.51</b>	<b>1.62</b>	<b>0.84</b>	<b>1.44</b>



### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM14\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	2	2	2	0	2	5	13	73	96	103	167	173	144	137	154	157	145	160	144	116	23	5	6	
2	LGV3	1	3	4	1	2	5	8	7	20	24	44	43	40	38	43	43	41	43	40	50	15	4	3	
3	LGV4	1	1	1	3	2	6	5	4	10	11	38	37	35	34	38	37	38	38	36	35	38	9	4	0
4	PLB	5	3	2	2	2	2	3	6	6	6	12	11	10	10	11	11	11	12	10	8	8	7	6	
5	LGV6	1	1	1	3	2	6	5	4	11	11	34	33	32	31	34	33	34	34	32	32	37	12	3	1
6	HGV7	0	0	0	0	0	0	1	2	149	190	138	132	123	104	119	135	132	112	100	7	7	2	0	0
7	HGV8	0	0	0	0	0	0	2	11	65	79	26	21	31	27	41	38	20	12	48	9	8	6	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	5	5	4	5	5	5	5	5	5	4	4	3	4	4
10	TAXI	2	2	2	2	3	5	7	40	48	51	62	70	63	57	63	64	63	64	62	59	20	3	1	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	4	4	4	3	2	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	4	5	4	4	4	4	3	2	2
13	NFB6	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
<b>Total Flow (veh)</b>		<b>28</b>	<b>17</b>	<b>17</b>	<b>15</b>	<b>17</b>	<b>33</b>	<b>54</b>	<b>158</b>	<b>426</b>	<b>500</b>	<b>602</b>	<b>597</b>	<b>547</b>	<b>503</b>	<b>581</b>	<b>595</b>	<b>567</b>	<b>536</b>	<b>576</b>	<b>414</b>	<b>385</b>	<b>152</b>	<b>78</b>	<b>65</b>

**NO emission factor (g/Veh.km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.037	0.036	0.036	0.036	0.036	0.036	0.037	0.043	0.044	0.044	0.044	0.040	0.040	0.040	0.040	0.039	0.044	0.044	0.044	0.044	0.044	0.037	0.037	0.037	0.037
LGV3	1.014	1.007	1.007	1.007	1.007	1.007	1.022	1.221	1.239	1.239	1.257	1.119	1.119	1.119	1.132	1.094	1.257	1.257	1.257	1.239	1.031	1.022	1.014	1.014	
LGV4	0.879	0.871	0.871	0.871	0.871	0.871	0.887	1.083	1.101	1.101	1.119	0.982	0.982	0.982	0.995	0.958	1.119	1.119	1.119	1.101	0.895	0.887	0.879	0.879	
PLB	0.853	0.847	0.847	0.847	0.847	0.847	0.860	1.044	1.060	1.060	1.078	0.946	0.946	0.946	0.958	0.923	1.078	1.078	1.078	1.060	1.060	0.868	0.860	0.853	
LGV6	1.165	1.154	1.154	1.154	1.154	1.154	1.176	1.408	1.428	1.428	1.448	1.290	1.290	1.290	1.305	1.262	1.448	1.448	1.448	1.428	1.187	1.176	1.165	1.165	
HGV7	1.484	1.469	1.469	1.469	1.469	1.469	1.500	1.846	1.876	1.876	1.907	1.669	1.669	1.669	1.691	1.627	1.907	1.907	1.907	1.876	1.876	1.516	1.500	1.484	
HGV8	2.493	2.463	2.463	2.463	2.463	2.463	2.524	3.235	3.300	3.300	3.369	2.861	2.861	2.861	2.908	2.775	3.369	3.369	3.369	3.300	3.300	2.555	2.524	2.493	
FBDD	2.995	2.986	2.986	2.986	2.986	2.986	3.005	3.967	4.057	4.057	4.153	3.446	3.446	3.446	3.510	3.325	4.153	4.153	4.153	4.057	4.057	3.015	3.005	2.995	
MC	0.256	0.255	0.255	0.255	0.255	0.255	0.256	0.273	0.275	0.275	0.277	0.264	0.264	0.264	0.265	0.262	0.277	0.277	0.277	0.275	0.257	0.256	0.256	0.256	
TAXI	0.472	0.469	0.469	0.469	0.469	0.469	0.476	0.555	0.562	0.562	0.569	0.514	0.514	0.514	0.519	0.505	0.569	0.569	0.569	0.562	0.562	0.479	0.476	0.472	
PV4	0.312	0.309	0.309	0.309	0.309	0.309	0.316	0.399	0.406	0.406	0.414	0.355	0.355	0.355	0.361	0.345	0.414	0.414	0.414	0.406	0.406	0.319	0.316	0.312	
PV5	0.590	0.584	0.584	0.584	0.584	0.584	0.598	0.757	0.771	0.771	0.785	0.674	0.674	0.674	0.685	0.655	0.785	0.785	0.785	0.785	0.771	0.771	0.605	0.598	0.590
NFB6	1.189	1.175	1.175	1.175	1.175	1.175	1.204	1.539	1.568	1.568	1.599	1.367	1.367	1.367	1.388	1.326	1.599	1.599	1.599	1.568	1.568	1.220	1.204	1.189	
NFB7	2.374	2.348	2.348	2.348	2.348	2.348	2.400	2.972	3.021	3.021	3.073	2.679	2.679	2.679	2.716	2.609	3.073	3.073	3.073	3.021	3.021	2.427	2.400	2.374	
NFB8	3.947	3.899	3.899	3.899	3.899	3.899	3.997	5.156	5.262	5.262	5.374	4.546	4.546	4.546	4.622	4.406	5.374	5.374	5.374	5.262	5.262	4.049	3.997	3.947	
FBSD	3.043	3.009	3.009	3.009	3.009	3.009	3.079	3.896	3.970	3.970	4.048	3.470	3.470	3.470	3.523	3.370	4.048	4.048	4.048	3.970	3.970	3.116	3.079	3.043	
<b>Total composite emission factor (g/Veh/km)</b>		<b>1.6749</b>	<b>1.2949</b>	<b>1.3043</b>	<b>1.3431</b>	<b>1.1570</b>	<b>0.9648</b>	<b>1.0888</b>	<b>0.7602</b>	<b>1.5261</b>	<b>1.5902</b>	<b>1.3285</b>	<b>1.1029</b>	<b>1.1695</b>	<b>1.1528</b>	<b>1.2137</b>	<b>1.1590</b>	<b>1.3190</b>	<b>1.2877</b>	<b>1.3816</b>	<b>1.0930</b>	<b>1.1043</b>	<b>1.3238</b>	<b>1.7747</b>	<b>1.8418</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>2.70</b>	<b>2.09</b>	<b>2.10</b>	<b>2.17</b>	<b>1.87</b>	<b>1.56</b>	<b>1.76</b>	<b>1.23</b>	<b>2.46</b>	<b>2.56</b>	<b>2.14</b>	<b>1.78</b>	<b>1.89</b>	<b>1.86</b>	<b>1.96</b>	<b>1.87</b>	<b>2.13</b>	<b>2.08</b>	<b>2.23</b>	<b>1.76</b>	<b>1.78</b>	<b>2.14</b>	<b>2.86</b>	<b>2.97</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM15\_Lung Yiu Street  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	3	1	1	1	0	2	7	14	22	23	11	9	9	9	9	9	9	9	9	5	1	4	1	
2	LGV3	1	1	0	1	0	1	3	9	13	13	4	4	3	3	4	4	3	4	4	0	1	2	0	
3	LGV4	0	0	0	0	0	0	2	2	9	10	3	4	3	2	3	4	4	3	4	3	1	1	2	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	2	9	10	2	3	2	1	2	3	3	2	3	2	0	1	1	1	
6	HGV7	0	0	0	0	0	0	1	2	18	21	16	12	15	14	17	15	15	16	14	1	2	0	0	
7	HGV8	0	0	0	0	0	0	1	2	24	27	16	12	15	14	17	15	15	16	14	1	2	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	
10	TAXI	1	0	1	0	0	0	3	9	13	15	2	2	1	2	1	2	2	1	2	1	1	1	1	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	
14	NFB7	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	
15	NFB8	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		<b>5</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>19</b>	<b>46</b>	<b>114</b>	<b>125</b>	<b>58</b>	<b>50</b>	<b>53</b>	<b>49</b>	<b>56</b>	<b>56</b>	<b>56</b>	<b>54</b>	<b>54</b>	<b>22</b>	<b>12</b>	<b>5</b>	<b>10</b>	<b>4</b>

**NO emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	
LGV3	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	
LGV4	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	
PLB	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	
LGV6	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	
HGV7	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	
HGV8	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	
FBDD	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	
MC	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	
TAXI	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	
PV4	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	
PV5	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	
NFB6	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	
NFB7	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	
NFB8	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	
FBSD	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.3398</b>	<b>0.5607</b>	<b>0.2694</b>	<b>0.5607</b>	<b>0.0000</b>	<b>0.3867</b>	<b>0.7237</b>	<b>0.9632</b>	<b>1.3349</b>	<b>1.3475</b>	<b>1.5352</b>	<b>1.4759</b>	<b>1.5872</b>	<b>1.5715</b>	<b>1.6379</b>	<b>1.5503</b>	<b>1.5503</b>	<b>1.6182</b>	<b>1.5273</b>	<b>0.6872</b>	<b>0.8820</b>	<b>0.7633</b>	<b>0.5276</b>	<b>0.7950</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.55</b>	<b>0.90</b>	<b>0.43</b>	<b>0.90</b>	<b>0.00</b>	<b>0.62</b>	<b>1.17</b>	<b>1.55</b>	<b>2.15</b>	<b>2.17</b>	<b>2.48</b>	<b>2.38</b>	<b>2.56</b>	<b>2.53</b>	<b>2.64</b>	<b>2.50</b>	<b>2.50</b>	<b>2.61</b>	<b>2.46</b>	<b>1.11</b>	<b>1.42</b>	<b>1.23</b>	<b>0.85</b>	<b>1.28</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM16\_Lung Hong Street  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	1	1	0	0	0	1	3	6	10	11	15	14	13	13	15	14	15	15	13	8	3	2	0	
2	LGV3	0	0	0	0	0	0	2	3	5	6	8	7	6	6	8	7	7	8	6	3	2	0	0	
3	LGV4	0	0	0	0	0	0	2	4	5	5	7	5	5	5	6	5	6	6	5	4	1	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	2	4	5	5	7	5	5	5	6	5	5	6	5	3	1	0	0	
6	HGV7	0	0	0	0	0	0	0	2	10	11	5	5	4	4	4	5	5	4	5	2	1	1	0	
7	HGV8	0	0	0	0	0	0	1	2	14	15	5	5	4	4	4	5	5	4	5	2	1	1	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	1	1	0	0	0	0	2	3	6	6	10	9	9	8	10	9	9	10	10	9	3	2	1	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>12</b>	<b>24</b>	<b>55</b>	<b>59</b>	<b>60</b>	<b>53</b>	<b>49</b>	<b>48</b>	<b>56</b>	<b>53</b>	<b>53</b>	<b>56</b>	<b>42</b>	<b>23</b>	<b>11</b>	<b>3</b>	<b>0</b>	

**NO emission factor (g/Veh.km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	
LGV3	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	
LGV4	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	
PLB	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	
LGV6	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	
HGV7	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	
HGV8	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	
FBDD	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	
MC	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	
TAXI	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	
PV4	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	
PV5	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	
NFB6	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	
NFB7	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	
NFB8	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	
FBSD	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.2718</b>	<b>0.2718</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0391</b>	<b>0.8775</b>	<b>0.9464</b>	<b>1.3656</b>	<b>1.3669</b>	<b>1.0046</b>	<b>1.0226</b>	<b>0.9931</b>	<b>1.0033</b>	<b>0.9581</b>	<b>1.0226</b>	<b>1.0226</b>	<b>0.9581</b>	<b>1.0010</b>	<b>0.7504</b>	<b>0.7447</b>	<b>0.9033</b>	<b>0.1943</b>	<b>0.0000</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.44</b>	<b>0.44</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.06</b>	<b>1.42</b>	<b>1.53</b>	<b>2.20</b>	<b>2.20</b>	<b>1.62</b>	<b>1.65</b>	<b>1.60</b>	<b>1.62</b>	<b>1.55</b>	<b>1.65</b>	<b>1.65</b>	<b>1.55</b>	<b>1.61</b>	<b>1.21</b>	<b>1.20</b>	<b>1.46</b>	<b>0.31</b>	<b>0.00</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: R1\_Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0	0	0

**NO emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
PC	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	
LGV3	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	
LGV4	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	
PLB	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	
LGV6	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	
HGV7	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	
HGV8	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	
FBDD	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	
MC	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	
TAXI	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	
PV4	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	
PV5	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	
NFB6	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	
NFB7	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	
NFB8	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	
FBSD	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.2734	7.2707	7.2904	7.2746	7.2883	7.2915	7.2715	7.2894	7.2824	7.2643	7.2945	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.73	11.73	11.76	11.73	11.76	11.76	11.73	11.76	11.75	11.72	11.77	0.00	0.00	0.00	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section R2\_ Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0		
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0	0	

#### NO emission factor (g/Veh/km, EMFAC Veh categories)

Description	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
PC	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081
LGV3	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273
LGV4	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097
PLB	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833
LGV6	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559
HGV7	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690
HGV8	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911
FBDD	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922
MC	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340
TAXI	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964
PV4	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826
PV5	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645
NFB6	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477
NFB7	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077
NFB8	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845
FBSD	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.2734	7.2707	7.2904	7.2746	7.2883	7.2915	7.2715	7.2894	7.2824	7.2643	7.2945	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.73	11.73	11.76	11.73	11.76	11.76	11.73	11.76	11.75	11.72	11.77	0.00	0.00	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section R3\_ Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0		
8	FBDD	0	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0	0	

**NO emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																							
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
PC	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081
LGV3	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273
LGV4	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097
PLB	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833
LGV6	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559
HGV7	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690
HGV8	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911
FBDD	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922
MC	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340
TAXI	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964
PV4	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826
PV5	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645
NFB6	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477
NFB7	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077
NFB8	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845
FBSD	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.2734	7.2707	7.2904	7.2746	7.2883	7.2915	7.2715	7.2894	7.2824	7.2643	7.2945	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.73	11.73	11.76	11.73	11.76	11.76	11.73	11.76	11.75	11.72	11.77	0.00	0.00	0.00	0.00

## Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section R4 Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0	0	0

**NO emission factor (g/Veh.km, EMFAC Veh categories)**

Description	Hour																							
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
PC	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081
LGV3	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273
LGV4	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097
PLB	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833
LGV6	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559
HGV7	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690
HGV8	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911
FBDD	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922
MC	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340
TAXI	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964
PV4	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826
PV5	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645
NFB6	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477
NFB7	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077
NFB8	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845
FBSD	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036

<b>Total composite emission factor (g/Veh/km)</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.2734	7.2707	7.2904	7.2746	7.2883	7.2915	7.2715	7.2894	7.2824	7.2643	7.2945	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.73	11.73	11.76	11.73	11.76	11.76	11.73	11.76	11.75	11.72	11.77	0.00	0.00	0.00	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section R5\_ Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0		
8	FBDD	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0	0	

**NO emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																							
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
PC	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	
LGV3	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	
LGV4	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	
PLB	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	
LGV6	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	
HGV7	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	
HGV8	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	
FBDD	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	
MC	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	
TAXI	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	
PV4	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	
PV5	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	
NFB6	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	
NFB7	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	
NFB8	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	
FBSD	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.2734	7.2707	7.2904	7.2746	7.2883	7.2915	7.2715	7.2894	7.2824	7.2643	7.2945	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.73	11.73	11.76	11.73	11.76	11.76	11.73	11.76	11.75	11.72	11.77	0.00	0.00	0.00	0.00



### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: R6\_ Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0		
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0	0	

#### NO emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																							
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
PC	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	
LGV3	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	
LGV4	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	
PLB	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	
LGV6	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	
HGV7	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	
HGV8	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	
FBDD	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	
MC	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	
TAXI	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	
PV4	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	
PV5	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	
NFB6	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	
NFB7	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	
NFB8	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	
FBSD	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.2734	7.2707	7.2904	7.2746	7.2883	7.2915	7.2715	7.2894	7.2824	7.2643	7.2945	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.73	11.73	11.76	11.73	11.76	11.76	11.73	11.76	11.75	11.72	11.77	0.00	0.00	0.00	0.00

## Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: R7\_Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	0	116	244	230	212	206	184	222	218	238	208	74	0	0	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	137	288	270	250	242	216	262	256	280	246	87	0	0	0	0	0

### NO emission factor (g/Veh.km, EMFAC Veh categories)

Description	Hour																							
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
PC	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081
LGV3	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273
LGV4	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097
PLB	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833
LGV6	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559
HGV7	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690
HGV8	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911
FBDD	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922
MC	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340
TAXI	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964
PV4	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826
PV5	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645
NFB6	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477
NFB7	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077
NFB8	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845
FBSD	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036
<b>Total composite emission factor (g/Veh/km)</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.2641	7.2662	7.2858	7.2695	7.2832	7.2858	7.2667	7.2845	7.2779	7.2591	7.2804	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.72	11.72	11.75	11.72	11.75	11.75	11.72	11.75	11.74	11.71	11.74	0.00	0.00	0.00	0.00	0.00



















### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: R27\_Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17

**NO emission factor (g/Veh/km, EMFAC Veh categories)**

Description	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
	PC	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081
LGV3	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	
LGV4	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	
PLB	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	
LGV6	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	
HGV7	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	
HGV8	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	
FBDD	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	
MC	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	
TAXI	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	
PV4	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	
PV5	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	
NFB6	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	
NFB7	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	
NFB8	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	
FBSD	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.9111	7.9111	7.9111	7.9111	7.9111	7.9111	7.9111	7.9111	7.9111	7.9111	7.9111	0.0000	0.0000	0.0000	0.0000	
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	0.00	0.00	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: R28\_Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	

**NO emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																							
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
PC	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081
LGV3	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273	2.273
LGV4	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097	2.097
PLB	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833	1.833
LGV6	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559
HGV7	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690	3.690
HGV8	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911	7.911
FBDD	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922	10.922
MC	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340
TAXI	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964
PV4	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826	0.826
PV5	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645	1.645
NFB6	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477	3.477
NFB7	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077	6.077
NFB8	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845	12.845
FBSD	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036	9.036
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.9111	7.9111	7.9111	7.9111	7.9111	7.9111	7.9111	7.9111	7.9111	7.9111	7.9111	7.9111	7.9111	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	0.00	0.00	0.00

# Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

0499746 TMFB

Pollutant Name: PM10

Speed km/hr	PC ALL	LGV3 ALL	LGV4 ALL	PLB ALL	LGV6 ALL	HGV7 ALL	HGV8 ALL	HGV8b ALL	FBDD ALL	MC ALL	TAXI ALL	PV4 ALL	PV5 ALL	NFB6 ALL	NFB7 ALL	NFB8 ALL	FBSD ALL
10	0.011	0.045	0.050	0.068	0.096	0.161	0.329	0.128	0.328	0.024	0.000	0.054	0.094	0.164	0.153	0.521	0.320
17	0.008	0.037	0.041	0.049	0.075	0.097	0.225	0.092	0.249	0.018	0.000	0.043	0.071	0.123	0.103	0.371	0.247
18	0.008	0.036	0.039	0.047	0.073	0.092	0.216	0.088	0.241	0.017	0.000	0.041	0.069	0.118	0.099	0.358	0.240
27	0.005	0.028	0.031	0.035	0.060	0.065	0.163	0.068	0.189	0.012	0.000	0.031	0.049	0.085	0.075	0.277	0.192
28	0.005	0.027	0.030	0.034	0.059	0.063	0.159	0.067	0.184	0.012	0.000	0.030	0.047	0.082	0.073	0.270	0.188
29	0.005	0.026	0.029	0.033	0.058	0.062	0.155	0.065	0.180	0.011	0.000	0.029	0.046	0.079	0.071	0.264	0.185
30	0.005	0.026	0.029	0.032	0.058	0.060	0.152	0.064	0.176	0.011	0.000	0.029	0.044	0.077	0.070	0.259	0.181
31	0.004	0.025	0.028	0.032	0.057	0.059	0.148	0.063	0.173	0.010	0.000	0.028	0.043	0.075	0.068	0.254	0.178
32	0.004	0.025	0.027	0.031	0.056	0.057	0.145	0.062	0.169	0.010	0.000	0.027	0.042	0.073	0.067	0.248	0.175
33	0.004	0.024	0.027	0.030	0.055	0.056	0.142	0.060	0.166	0.010	0.000	0.026	0.040	0.070	0.066	0.244	0.172
34	0.004	0.023	0.026	0.030	0.055	0.055	0.139	0.059	0.163	0.010	0.000	0.026	0.039	0.069	0.065	0.239	0.169
35	0.004	0.023	0.026	0.029	0.054	0.054	0.137	0.058	0.160	0.009	0.000	0.025	0.038	0.067	0.063	0.235	0.166
36	0.004	0.022	0.025	0.028	0.053	0.053	0.134	0.057	0.157	0.009	0.000	0.024	0.037	0.065	0.062	0.231	0.164
37	0.004	0.022	0.025	0.028	0.053	0.052	0.132	0.056	0.154	0.009	0.000	0.024	0.036	0.064	0.061	0.227	0.161
38	0.003	0.021	0.024	0.027	0.052	0.051	0.129	0.055	0.152	0.009	0.000	0.023	0.035	0.062	0.060	0.223	0.159
39	0.003	0.021	0.023	0.027	0.052	0.050	0.127	0.054	0.149	0.008	0.000	0.023	0.035	0.061	0.059	0.219	0.157
40	0.003	0.021	0.023	0.027	0.051	0.049	0.125	0.053	0.147	0.008	0.000	0.022	0.034	0.060	0.058	0.216	0.154
41	0.003	0.020	0.023	0.026	0.051	0.048	0.123	0.053	0.145	0.008	0.000	0.022	0.033	0.059	0.058	0.212	0.152
42	0.003	0.020	0.022	0.026	0.050	0.047	0.121	0.052	0.143	0.008	0.000	0.021	0.033	0.058	0.057	0.209	0.150
43	0.003	0.019	0.022	0.026	0.050	0.047	0.119	0.051	0.141	0.008	0.000	0.021	0.032	0.057	0.056	0.206	0.149
44	0.003	0.019	0.021	0.025	0.050	0.046	0.118	0.050	0.139	0.007	0.000	0.020	0.032	0.056	0.055	0.203	0.147
45	0.003	0.019	0.021	0.025	0.049	0.045	0.116	0.050	0.137	0.007	0.000	0.020	0.031	0.055	0.054	0.200	0.145
50	0.002	0.017	0.019	0.024	0.048	0.042	0.108	0.046	0.130	0.007	0.000	0.018	0.030	0.053	0.051	0.187	0.138
51	0.002	0.017	0.019	0.024	0.048	0.042	0.108	0.046	0.130	0.006	0.000	0.018	0.030	0.053	0.051	0.187	0.138
52	0.002	0.016	0.018	0.024	0.048	0.042	0.108	0.046	0.130	0.006	0.000	0.017	0.030	0.052	0.050	0.187	0.138
53	0.002	0.016	0.018	0.024	0.048	0.041	0.107	0.046	0.129	0.006	0.000	0.017	0.029	0.052	0.050	0.187	0.138
54	0.002	0.016	0.018	0.024	0.047	0.041	0.107	0.046	0.129	0.006	0.000	0.017	0.029	0.052	0.049	0.187	0.138

EMFAC-HK Model (v 4.1) Key Assumptions:

Mode: EMFAC

Calendar Year 2019

Temperature and relative humidity 24 degree C, 77% (2018 average at Tuen Mun Weather Station)

Vehicle Population (external traffic) Default (i.e. HGV8 emission factors for Roads R1 to R7, R9, R25 to R28)

Vehicle Population (internal traffic) All HGV8 (year 2019) are of Euro V standard (i.e. HGV8b emission factors for Roads R8, R11, R14, R15 and R17)

Vehicle Accrual Default

Trips: Default (not used. No starting emissions as parking restrictions apply for all identified major roads within the Study Area)

VKT: Default (not used in EMFAC mode)



### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM1\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	16	11	8	5	6	12	32	113	163	176	247	240	209	200	228	223	220	218	236	209	160	51	32	19
2	LGV3	7	5	5	3	3	8	17	29	55	59	76	71	66	63	72	71	70	72	75	66	66	25	13	8
3	LGV4	4	2	2	3	2	7	11	17	36	38	62	58	54	52	59	58	59	60	54	54	17	11	6	
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	4	2	2	3	2	7	11	17	36	38	57	53	50	48	54	53	54	55	50	51	20	10	6	
6	HGV7	0	0	0	0	0	0	4	20	286	364	274	254	231	225	261	262	268	251	214	16	12	4	0	0
7	HGV8	0	0	0	0	0	0	10	48	666	831	645	590	565	524	632	621	628	588	496	39	28	10	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	5	6	6	6	6	6	6	5	4	4	4	4
10	TAXI	9	5	6	4	5	7	15	64	88	96	100	103	92	87	99	97	96	99	102	92	76	34	15	5
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	4	4	4	3	2	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
<b>Total Flow (veh)</b>		<b>61</b>	<b>33</b>	<b>30</b>	<b>24</b>	<b>24</b>	<b>47</b>	<b>113</b>	<b>331</b>	<b>1367</b>	<b>1643</b>	<b>1561</b>	<b>1464</b>	<b>1353</b>	<b>1281</b>	<b>1501</b>	<b>1480</b>	<b>1486</b>	<b>1437</b>	<b>1338</b>	<b>612</b>	<b>518</b>	<b>226</b>	<b>141</b>	<b>98</b>

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.005	0.005	0.004	0.003	0.003	0.003	0.003	0.004	0.005	0.004	0.005	0.004	0.003	0.003	0.002	0.002	0.002
LGV3	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.023	0.027	0.028	0.023	0.020	0.020	0.019	0.020	0.020	0.023	0.026	0.025	0.021	0.021	0.017	0.017	0.016	0.016
LGV4	0.018	0.018	0.018	0.018	0.018	0.018	0.019	0.026	0.030	0.031	0.026	0.023	0.022	0.021	0.023	0.023	0.026	0.029	0.028	0.023	0.023	0.019	0.019	0.018	0.018
PLB	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.029	0.034	0.035	0.029	0.026	0.026	0.025	0.026	0.026	0.030	0.033	0.032	0.027	0.027	0.024	0.024	0.024	0.024
LGV6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.054	0.059	0.060	0.054	0.051	0.050	0.050	0.051	0.051	0.055	0.058	0.057	0.051	0.051	0.048	0.048	0.048	0.048
HGV7	0.042	0.041	0.041	0.041	0.041	0.041	0.042	0.054	0.063	0.065	0.054	0.048	0.047	0.046	0.048	0.048	0.055	0.062	0.059	0.049	0.049	0.042	0.042	0.042	0.042
HGV8	0.108	0.107	0.107	0.107	0.107	0.107	0.108	0.137	0.159	0.163	0.137	0.123	0.121	0.118	0.123	0.123	0.139	0.155	0.148	0.125	0.125	0.108	0.108	0.108	0.108
FBDD	0.130	0.129	0.129	0.129	0.129	0.129	0.130	0.160	0.184	0.189	0.160	0.145	0.143	0.139	0.145	0.145	0.163	0.180	0.173	0.147	0.147	0.130	0.130	0.130	0.130
MC	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.009	0.012	0.012	0.009	0.008	0.008	0.007	0.008	0.008	0.010	0.011	0.010	0.008	0.008	0.007	0.006	0.006	0.006
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.025	0.030	0.031	0.025	0.022	0.021	0.020	0.022	0.022	0.026	0.029	0.028	0.022	0.022	0.018	0.018	0.018	0.017
PV5	0.030	0.029	0.029	0.029	0.029	0.029	0.030	0.038	0.047	0.049	0.038	0.033	0.033	0.032	0.033	0.033	0.039	0.046	0.043	0.034	0.034	0.030	0.030	0.030	0.030
NFB6	0.052	0.052	0.052	0.052	0.052	0.052	0.053	0.067	0.082	0.085	0.067	0.059	0.058	0.056	0.059	0.059	0.069	0.079	0.075	0.060	0.060	0.053	0.053	0.052	0.052
NFB7	0.050	0.050	0.050	0.050	0.050	0.050	0.051	0.063	0.073	0.075	0.063	0.058	0.057	0.055	0.058	0.058	0.065	0.071	0.068	0.058	0.058	0.051	0.051	0.050	0.050
NFB8	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.235	0.270	0.277	0.235	0.212	0.209	0.203	0.212	0.212	0.239	0.264	0.254	0.216	0.216	0.187	0.187	0.187	0.187
FBSD	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.166	0.188	0.192	0.166	0.152	0.150	0.147	0.152	0.152	0.169	0.185	0.178	0.154	0.154	0.138	0.138	0.138	0.138
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.0348</b>	<b>0.0262</b>	<b>0.0278</b>	<b>0.0304</b>	<b>0.0278</b>	<b>0.0232</b>	<b>0.0312</b>	<b>0.0369</b>	<b>0.0979</b>	<b>0.1036</b>	<b>0.0773</b>	<b>0.0683</b>	<b>0.0688</b>	<b>0.0660</b>	<b>0.0704</b>	<b>0.0704</b>	<b>0.0802</b>	<b>0.0877</b>	<b>0.0786</b>	<b>0.0322</b>	<b>0.0319</b>	<b>0.0372</b>	<b>0.0427</b>	<b>0.0528</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.06</b>	<b>0.04</b>	<b>0.04</b>	<b>0.05</b>	<b>0.04</b>	<b>0.04</b>	<b>0.05</b>	<b>0.06</b>	<b>0.16</b>	<b>0.17</b>	<b>0.12</b>	<b>0.11</b>	<b>0.11</b>	<b>0.11</b>	<b>0.11</b>	<b>0.13</b>	<b>0.14</b>	<b>0.13</b>	<b>0.05</b>	<b>0.05</b>	<b>0.06</b>	<b>0.07</b>	<b>0.09</b>	<b>0.09</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM2\_Unnamed Road to River Trade Terminal  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	4	3	2	1	1	1	3	5	8	17	13	13	13	15	13	13	15	17	13	10	7	7	5	
2	LGV3	3	1	1	1	1	1	3	5	5	5	5	4	5	5	5	5	5	5	4	4	3	3	3	
3	LGV4	2	1	1	0	0	0	1	2	3	3	4	3	3	3	3	3	3	3	4	3	3	3	2	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	2	1	1	0	0	0	1	2	3	3	4	3	3	3	3	3	3	4	3	3	3	3	2	
6	HGV7	0	0	0	0	0	0	2	2	64	69	57	52	38	56	63	54	59	63	65	1	1	1	0	0
7	HGV8	0	0	0	0	0	0	6	16	396	406	333	306	277	265	314	311	324	314	331	2	2	1	0	0
8	FBDD	0	0	0	0	0	0	0	0	396	406	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	2	1	1	1	1	1	1	2	4	5	5	3	3	5	3	3	5	5	3	1	1	1	1	1
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		13	7	6	3	3	3	15	32	483	499	425	385	341	347	408	392	410	408	431	29	24	19	17	13

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
	PC	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
LGV3	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.036	0.036	0.036	0.036	0.036	
LGV4	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.039	0.039	0.039	0.039	0.039	
PLB	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.047	0.047	0.047	0.047	0.047	
LGV6	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.073	0.073	0.073	0.073	0.073	
HGV7	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.092	0.092	0.092	0.092	0.092	
HGV8	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.225	0.225	0.225	0.225	0.225	0.225	0.225	0.225	0.225	0.225	0.225	0.216	0.216	0.216	0.216	0.216	
FBDD	0.241	0.241	0.241	0.241	0.241	0.241	0.241	0.241	0.249	0.249	0.249	0.249	0.249	0.249	0.249	0.249	0.249	0.249	0.249	0.241	0.241	0.241	0.241	0.241	
MC	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.017	0.017	0.017	0.017	0.017	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.041	0.041	0.041	0.041	0.041	
PV5	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.069	0.069	0.069	0.069	0.069	
NFB6	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.118	0.118	0.118	0.118	0.118	
NFB7	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.099	0.099	0.099	0.099	0.099	
NFB8	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.358	0.358	0.358	0.358	0.358	
FBSD	0.240	0.240	0.240	0.240	0.240	0.240	0.240	0.240	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.240	0.240	0.240	0.240	0.240	
<b>Total composite emission factor (g/Veh/km)</b>		0.0278	0.0243	0.0271	0.0144	0.0144	0.0144	0.1100	0.1253	0.1985	0.1976	0.1910	0.1935	0.1952	0.1891	0.1896	0.1934	0.1932	0.1896	0.1891	0.0379	0.0449	0.0423	0.0292	0.0283
<b>Total composite emission factor (g/Veh/mile)</b>		0.04	0.04	0.04	0.02	0.02	0.02	0.18	0.20	0.32	0.32	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.06	0.07	0.07	0.05	0.05



### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM3\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	12	8	6	4	5	11	29	108	155	168	230	227	196	187	213	210	207	203	219	196	150	44	25	14
2	LGV3	4	4	4	2	2	7	16	26	50	54	71	66	62	59	67	66	65	67	70	62	62	22	10	5
3	LGV4	2	1	1	3	2	7	10	15	33	35	58	55	51	49	56	55	56	56	51	51	14	8	4	4
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	2	1	1	3	2	7	10	15	33	35	53	50	47	45	51	50	50	51	51	47	48	17	7	4
6	HGV7	0	0	0	0	0	0	2	18	222	295	217	202	193	169	198	208	209	188	149	15	11	3	0	0
7	HGV8	0	0	0	0	0	0	4	32	270	425	312	284	288	259	318	310	304	274	165	37	26	9	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	5	6	6	6	6	6	6	5	4	4	4	4
10	TAXI	7	4	5	3	4	6	14	62	84	91	95	100	89	84	94	94	93	94	97	89	75	33	14	4
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	5	5	4	4	4	3	2	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
<b>Total Flow (veh)</b>		48	26	24	21	21	44	98	299	884	1144	1136	1079	1012	934	1093	1088	1076	1029	907	583	494	207	124	85

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.005	0.004	0.003	0.003	0.002	0.002	0.002	
LGV3	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.022	0.023	0.023	0.023	0.019	0.019	0.019	0.020	0.020	0.023	0.026	0.025	0.020	0.019	0.017	0.017	0.016	
LGV4	0.018	0.018	0.018	0.018	0.018	0.018	0.019	0.025	0.026	0.026	0.026	0.021	0.021	0.022	0.023	0.023	0.026	0.029	0.028	0.023	0.021	0.019	0.019	0.018	
PLB	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.028	0.029	0.029	0.029	0.025	0.025	0.026	0.026	0.026	0.030	0.033	0.032	0.026	0.025	0.024	0.024	0.024	
LGV6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.053	0.054	0.054	0.054	0.050	0.050	0.050	0.051	0.051	0.055	0.058	0.057	0.051	0.050	0.048	0.048	0.048	
HGV7	0.042	0.041	0.041	0.041	0.041	0.041	0.042	0.052	0.054	0.054	0.054	0.046	0.046	0.047	0.048	0.048	0.055	0.062	0.059	0.048	0.046	0.042	0.042	0.042	
HGV8	0.108	0.107	0.107	0.107	0.107	0.107	0.108	0.132	0.137	0.137	0.137	0.118	0.118	0.119	0.123	0.123	0.139	0.155	0.148	0.123	0.118	0.108	0.108	0.108	
FBDD	0.130	0.129	0.129	0.129	0.129	0.129	0.130	0.154	0.160	0.160	0.160	0.139	0.139	0.141	0.145	0.145	0.163	0.180	0.173	0.145	0.139	0.130	0.130	0.130	
MC	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.009	0.009	0.009	0.009	0.007	0.007	0.008	0.008	0.008	0.010	0.011	0.010	0.008	0.007	0.007	0.006	0.006	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.024	0.025	0.025	0.025	0.020	0.020	0.021	0.022	0.022	0.026	0.029	0.028	0.022	0.020	0.018	0.018	0.017	
PV5	0.030	0.029	0.029	0.029	0.029	0.029	0.030	0.036	0.038	0.038	0.038	0.032	0.032	0.032	0.033	0.033	0.039	0.046	0.043	0.033	0.032	0.030	0.030	0.030	
NFB6	0.052	0.052	0.052	0.052	0.052	0.052	0.053	0.064	0.067	0.067	0.067	0.056	0.056	0.057	0.059	0.059	0.069	0.079	0.075	0.059	0.056	0.053	0.053	0.052	
NFB7	0.050	0.050	0.050	0.050	0.050	0.050	0.051	0.061	0.063	0.063	0.063	0.055	0.055	0.056	0.058	0.058	0.065	0.071	0.068	0.058	0.055	0.051	0.051	0.050	
NFB8	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.227	0.235	0.235	0.235	0.203	0.203	0.206	0.212	0.212	0.239	0.264	0.254	0.212	0.203	0.187	0.187	0.187	
FBSD	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.161	0.166	0.166	0.166	0.147	0.147	0.149	0.152	0.152	0.169	0.185	0.178	0.152	0.147	0.138	0.138	0.138	
<b>Total composite emission factor (g/Veh/km)</b>		0.0403	0.0298	0.0311	0.0339	0.0309	0.0243	0.0276	0.0312	0.0643	0.0723	0.0630	0.0526	0.0549	0.0549	0.0582	0.0578	0.0654	0.0708	0.0570	0.0322	0.0303	0.0386	0.0464	0.0587
<b>Total composite emission factor (g/Veh/mile)</b>		0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.05	0.10	0.12	0.10	0.08	0.09	0.09	0.09	0.09	0.11	0.11	0.09	0.05	0.05	0.06	0.07	0.09

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM5\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	10	7	5	4	5	11	28	106	152	165	219	217	187	179	203	200	197	193	209	187	142	38	19	9
2	LGV3	2	4	4	2	2	7	16	24	48	52	65	62	58	55	63	62	61	63	64	58	58	18	6	3
3	LGV4	1	1	1	3	2	7	10	14	32	34	54	52	48	46	53	52	52	53	52	48	48	11	5	2
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	1	1	1	3	2	7	10	14	32	34	49	47	44	42	48	47	47	48	47	44	45	14	4	2
6	HGV7	0	0	0	0	0	0	2	17	202	251	177	164	157	137	158	170	167	150	137	14	11	3	0	0
7	HGV8	0	0	0	0	0	0	4	28	156	179	80	70	80	73	94	90	64	64	99	31	23	8	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	6	6	6	6	6	6	6	5	4	4	4	4
10	TAXI	5	4	5	3	4	6	14	60	82	89	88	94	84	79	88	88	87	88	90	84	70	29	10	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
<b>Total Flow (veh)</b>		<b>40</b>	<b>25</b>	<b>23</b>	<b>21</b>	<b>21</b>	<b>44</b>	<b>97</b>	<b>286</b>	<b>741</b>	<b>845</b>	<b>832</b>	<b>801</b>	<b>744</b>	<b>693</b>	<b>803</b>	<b>804</b>	<b>768</b>	<b>755</b>	<b>798</b>	<b>552</b>	<b>468</b>	<b>186</b>	<b>104</b>	<b>71</b>

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.002	0.002	0.002	0.002
LGV3	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.023	0.023	0.023	0.024	0.020	0.020	0.020	0.020	0.019	0.024	0.024	0.024	0.023	0.023	0.017	0.017	0.016	0.016
LGV4	0.018	0.018	0.018	0.018	0.018	0.018	0.019	0.026	0.026	0.026	0.027	0.022	0.022	0.022	0.023	0.021	0.027	0.027	0.027	0.026	0.026	0.019	0.019	0.018	0.018
PLB	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.029	0.030	0.030	0.030	0.026	0.026	0.026	0.026	0.025	0.030	0.030	0.030	0.030	0.030	0.024	0.024	0.024	0.024
LGV6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.054	0.055	0.055	0.055	0.050	0.050	0.050	0.051	0.050	0.055	0.055	0.055	0.055	0.055	0.048	0.048	0.048	0.048
HGV7	0.042	0.041	0.041	0.041	0.041	0.041	0.042	0.054	0.055	0.055	0.056	0.047	0.047	0.047	0.048	0.046	0.056	0.056	0.056	0.056	0.055	0.055	0.042	0.042	0.042
HGV8	0.108	0.107	0.107	0.107	0.107	0.107	0.108	0.137	0.139	0.139	0.142	0.121	0.121	0.121	0.123	0.118	0.142	0.142	0.142	0.139	0.139	0.108	0.108	0.108	0.108
FBDD	0.130	0.129	0.129	0.129	0.129	0.129	0.130	0.160	0.163	0.163	0.166	0.143	0.143	0.143	0.145	0.139	0.166	0.166	0.166	0.163	0.163	0.130	0.130	0.130	0.130
MC	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.009	0.010	0.010	0.010	0.008	0.008	0.008	0.008	0.007	0.010	0.010	0.010	0.010	0.010	0.007	0.006	0.006	0.006
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.025	0.026	0.026	0.026	0.021	0.021	0.021	0.022	0.020	0.026	0.026	0.026	0.026	0.026	0.018	0.018	0.018	0.017
PV5	0.030	0.029	0.029	0.029	0.029	0.029	0.030	0.038	0.039	0.039	0.040	0.033	0.033	0.033	0.033	0.032	0.040	0.040	0.040	0.040	0.039	0.039	0.030	0.030	0.030
NFB6	0.052	0.052	0.052	0.052	0.052	0.052	0.053	0.067	0.069	0.069	0.070	0.058	0.058	0.058	0.059	0.056	0.070	0.070	0.070	0.069	0.069	0.053	0.053	0.052	0.052
NFB7	0.050	0.050	0.050	0.050	0.050	0.050	0.051	0.063	0.065	0.065	0.066	0.057	0.057	0.057	0.058	0.055	0.066	0.066	0.066	0.065	0.065	0.051	0.051	0.050	0.050
NFB8	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.235	0.239	0.239	0.244	0.209	0.209	0.209	0.212	0.203	0.244	0.244	0.244	0.239	0.239	0.187	0.187	0.187	0.187
FBSD	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.166	0.169	0.169	0.172	0.150	0.150	0.150	0.152	0.147	0.172	0.172	0.172	0.169	0.169	0.138	0.138	0.138	0.138
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.0457</b>	<b>0.0309</b>	<b>0.0324</b>	<b>0.0339</b>	<b>0.0309</b>	<b>0.0243</b>	<b>0.0279</b>	<b>0.0313</b>	<b>0.0551</b>	<b>0.0563</b>	<b>0.0466</b>	<b>0.0380</b>	<b>0.0404</b>	<b>0.0400</b>	<b>0.0421</b>	<b>0.0400</b>	<b>0.0455</b>	<b>0.0455</b>	<b>0.0489</b>	<b>0.0362</b>	<b>0.0361</b>	<b>0.0409</b>	<b>0.0526</b>	<b>0.0678</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.07</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.04</b>	<b>0.04</b>	<b>0.05</b>	<b>0.09</b>	<b>0.09</b>	<b>0.08</b>	<b>0.06</b>	<b>0.07</b>	<b>0.06</b>	<b>0.07</b>	<b>0.06</b>	<b>0.07</b>	<b>0.07</b>	<b>0.08</b>	<b>0.06</b>	<b>0.06</b>	<b>0.07</b>	<b>0.08</b>	<b>0.11</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM7, Siu Lang Shui Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	0	0	0	0	0	0	1	4	8	10	7	5	5	5	7	5	7	7	5	1	0	0		
2	LGV3	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0		
3	LGV4	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
4	PLB	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
5	LGV6	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
6	HGV7	0	0	0	0	0	0	0	8	15	18	11	9	9	9	11	9	9	11	11	2	0	0		
7	HGV8	0	0	0	0	0	0	6	13	14	8	7	7	7	8	7	8	8	8	4	2	0	0		
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	0	0	0	0	0	1	3	6	8	4	2	2	2	4	2	2	4	4	2	0	0	0		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Total Flow (veh)</b>		0	0	0	0	0	2	21	47	55	31	24	24	24	31	24	24	31	31	14	3	0	0		

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
	PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
LGV3	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	
LGV4	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	
PLB	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	
LGV6	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	
HGV7	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	
HGV8	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	
FBDD	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	
MC	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	
PV5	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	
NFB6	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	
NFB7	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	
NFB8	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	
FBSD	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0017	0.0559	0.0548	0.0520	0.0519	0.0573	0.0573	0.0573	0.0519	0.0573	0.0573	0.0519	0.0519	0.0461	0.0859	0.0000	0.0000	
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.08	0.08	0.09	0.09	0.09	0.08	0.09	0.09	0.08	0.08	0.07	0.14	0.00	0.00	

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM8\_Unnamed Road to Cemetery  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	0	0	0	0	0	0	0	2	3	2	1	1	1	2	0	1	1	2	1	0	1	0	0	
2	LGV3	0	0	0	0	0	0	0	1	0	1	0	1	1	0	1	1	1	1	1	1	1	0	0	
3	LGV4	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	1	3	3	2	2	2	2	2	2	2	2	2	2	2	0	0	0	
7	HGV8	0	0	0	0	0	0	1	2	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	0	1	0	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		0	0	0	0	0	0	2	11	12	5	5	4	5	5	4	5	4	5	4	5	3	0	0	

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																							
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
LGV3	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
LGV4	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
PLB	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
LGV6	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
HGV7	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047
HGV8	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119
FBDD	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141
MC	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
PV5	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032
NFB6	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057
NFB7	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056
NFB8	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206
FBSD	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0830	0.0433	0.0425	0.0237	0.0431	0.0289	0.0231	0.0237	0.0531	0.0231	0.0289	0.0237	0.0074	0.0000	0.0029	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.07	0.07	0.04	0.07	0.05	0.04	0.04	0.09	0.04	0.05	0.04	0.01	0.00	0.00	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM9, Siu Lang Shui Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	0	0	0	0	0	0	1	4	10	13	9	6	6	6	9	5	6	8	9	6	1	1	0	0
2	LGV3	0	0	0	0	0	0	0	0	2	1	2	1	2	2	1	2	2	2	2	2	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	9	18	21	13	11	11	11	13	11	11	13	13	2	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	7	15	16	8	8	7	7	8	8	5	8	8	4	2	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	1	3	6	8	4	3	2	3	4	3	3	4	4	3	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		0	0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	0	0

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
	PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
LGV3	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	
LGV4	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	
PLB	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	
LGV6	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	
HGV7	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	
HGV8	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	
FBDD	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	
MC	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	
PV5	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	
NFB6	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	
NFB7	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	
NFB8	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	
FBSD	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0017	0.0598	0.0541	0.0516	0.0491	0.0563	0.0545	0.0526	0.0491	0.0582	0.0469	0.0504	0.0491	0.0401	0.0874	0.0034	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09	0.08	0.08	0.09	0.09	0.08	0.08	0.09	0.08	0.08	0.08	0.06	0.14	0.01	0.00	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM10\_Lung Fat Street  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	0	0	0	0	0	1	4	10	13	9	6	6	6	9	5	6	8	9	6	1	1	0	0	
2	LGV3	0	0	0	0	0	0	0	2	1	2	1	2	2	1	2	2	2	2	2	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	9	18	21	13	11	11	11	13	11	11	13	13	2	0	0	0	0	
7	HGV8	0	0	0	0	0	0	7	15	16	8	8	7	7	8	8	5	8	8	4	2	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	1	3	6	8	4	3	2	3	4	3	3	4	4	3	0	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	0	0	

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
	PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
LGV3	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
LGV4	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
PLB	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027
LGV6	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052
HGV7	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051
HGV8	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129
FBDD	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152
MC	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
PV5	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
NFB6	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062
NFB7	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060
NFB8	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223
FBSD	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0017	0.0598	0.0541	0.0516	0.0491	0.0563	0.0545	0.0526	0.0491	0.0582	0.0469	0.0504	0.0491	0.0401	0.0874	0.0034	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09	0.08	0.08	0.09	0.09	0.08	0.08	0.09	0.08	0.08	0.08	0.06	0.14	0.01	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM11\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	6	4	3	1	2	8	23	93	128	137	193	196	166	159	178	180	176	169	184	166	129	27	11	7
2	LGV3	2	4	4	2	2	6	13	19	38	43	56	54	50	47	54	54	52	54	55	50	53	18	6	3
3	LGV4	1	1	1	3	2	6	9	10	24	26	48	46	43	41	47	46	47	46	43	43	11	5	2	
4	PLB	5	3	2	2	2	2	3	6	6	6	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	1	1	1	3	2	6	9	10	25	26	43	41	39	37	42	41	42	41	39	40	14	4	2	
6	HGV7	0	0	0	0	0	0	2	6	177	222	159	149	142	122	140	155	152	132	119	10	10	3	0	0
7	HGV8	0	0	0	0	0	0	4	15	103	121	47	38	50	45	62	58	40	32	67	12	11	7	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	6	6	6	6	6	6	6	5	4	4	4	4
10	TAXI	4	3	3	2	3	5	12	52	67	72	74	81	73	67	74	75	74	74	76	72	63	23	5	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
<b>Total Flow (veh)</b>		<b>35</b>	<b>21</b>	<b>19</b>	<b>17</b>	<b>17</b>	<b>37</b>	<b>85</b>	<b>228</b>	<b>595</b>	<b>684</b>	<b>720</b>	<b>700</b>	<b>649</b>	<b>600</b>	<b>693</b>	<b>704</b>	<b>676</b>	<b>646</b>	<b>688</b>	<b>478</b>	<b>420</b>	<b>168</b>	<b>91</b>	<b>69</b>

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.002	0.002	0.002
LGV3	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.023	0.023	0.023	0.024	0.020	0.020	0.020	0.020	0.019	0.024	0.024	0.024	0.023	0.023	0.017	0.017	0.016	0.016
LGV4	0.018	0.018	0.018	0.018	0.018	0.018	0.019	0.026	0.026	0.026	0.027	0.022	0.022	0.022	0.023	0.021	0.027	0.027	0.027	0.026	0.026	0.019	0.019	0.018	0.018
PLB	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.029	0.030	0.030	0.030	0.026	0.026	0.026	0.026	0.025	0.030	0.030	0.030	0.030	0.030	0.024	0.024	0.024	0.024
LGV6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.054	0.055	0.055	0.055	0.050	0.050	0.050	0.051	0.050	0.055	0.055	0.055	0.055	0.055	0.048	0.048	0.048	0.048
HGV7	0.042	0.041	0.041	0.041	0.041	0.041	0.042	0.054	0.055	0.055	0.056	0.047	0.047	0.047	0.048	0.046	0.056	0.056	0.056	0.055	0.055	0.042	0.042	0.042	0.042
HGV8	0.108	0.107	0.107	0.107	0.107	0.107	0.108	0.137	0.139	0.139	0.142	0.121	0.121	0.121	0.123	0.118	0.142	0.142	0.142	0.139	0.139	0.108	0.108	0.108	0.108
FBDD	0.130	0.129	0.129	0.129	0.129	0.129	0.130	0.160	0.163	0.163	0.166	0.143	0.143	0.143	0.145	0.139	0.166	0.166	0.166	0.163	0.163	0.130	0.130	0.130	0.130
MC	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.009	0.010	0.010	0.010	0.008	0.008	0.008	0.008	0.007	0.010	0.010	0.010	0.010	0.010	0.007	0.006	0.006	0.006
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.025	0.026	0.026	0.026	0.021	0.021	0.021	0.022	0.020	0.026	0.026	0.026	0.026	0.026	0.018	0.018	0.018	0.017
PV5	0.030	0.029	0.029	0.029	0.029	0.029	0.030	0.038	0.039	0.039	0.040	0.033	0.033	0.033	0.033	0.032	0.040	0.040	0.040	0.039	0.039	0.030	0.030	0.030	0.030
NFB6	0.052	0.052	0.052	0.052	0.052	0.052	0.053	0.067	0.069	0.069	0.070	0.058	0.058	0.058	0.059	0.056	0.070	0.070	0.070	0.069	0.069	0.053	0.053	0.052	0.052
NFB7	0.050	0.050	0.050	0.050	0.050	0.050	0.051	0.063	0.065	0.065	0.066	0.057	0.057	0.057	0.058	0.055	0.066	0.066	0.066	0.065	0.065	0.051	0.051	0.050	0.050
NFB8	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.235	0.239	0.239	0.244	0.209	0.209	0.209	0.212	0.203	0.244	0.244	0.244	0.239	0.239	0.187	0.187	0.187	0.187
FBSD	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.166	0.169	0.169	0.172	0.150	0.150	0.150	0.152	0.147	0.172	0.172	0.172	0.169	0.169	0.138	0.138	0.138	0.138
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.0520</b>	<b>0.0365</b>	<b>0.0390</b>	<b>0.0415</b>	<b>0.0378</b>	<b>0.0266</b>	<b>0.0303</b>	<b>0.0268</b>	<b>0.0522</b>	<b>0.0538</b>	<b>0.0448</b>	<b>0.0360</b>	<b>0.0388</b>	<b>0.0384</b>	<b>0.0409</b>	<b>0.0384</b>	<b>0.0443</b>	<b>0.0433</b>	<b>0.0474</b>	<b>0.0344</b>	<b>0.0347</b>	<b>0.0445</b>	<b>0.0600</b>	<b>0.0697</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.08</b>	<b>0.06</b>	<b>0.06</b>	<b>0.07</b>	<b>0.06</b>	<b>0.04</b>	<b>0.05</b>	<b>0.04</b>	<b>0.08</b>	<b>0.09</b>	<b>0.07</b>	<b>0.06</b>	<b>0.06</b>	<b>0.06</b>	<b>0.07</b>	<b>0.06</b>	<b>0.07</b>	<b>0.07</b>	<b>0.08</b>	<b>0.06</b>	<b>0.06</b>	<b>0.07</b>	<b>0.10</b>	<b>0.11</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM12\_Unnamed Road to EcoPark  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	4	3	2	3	3	3	4	9	14	15	17	15	14	16	15	15	16	16	15	12	10	8	2	
2	LGV3	0	0	0	0	0	1	3	5	8	8	7	6	6	7	7	7	7	7	6	5	0	0		
3	LGV4	0	0	0	0	0	1	1	4	6	6	6	5	6	6	6	5	6	6	5	5	0	0		
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5	LGV6	0	0	0	0	0	1	1	4	6	6	6	5	6	6	6	5	6	6	5	5	0	0		
6	HGV7	0	0	0	0	0	0	0	2	7	8	5	4	4	5	4	4	5	5	2	1	0	0		
7	HGV8	0	0	0	0	0	0	0	6	38	42	25	24	23	21	24	24	19	24	24	15	10	0		
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	1	1	2	1	1	1	1	5	9	9	10	10	9	9	10	10	10	10	9	7	6	5		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Total Flow (veh)</b>		<b>5</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>7</b>	<b>10</b>	<b>35</b>	<b>88</b>	<b>94</b>	<b>76</b>	<b>72</b>	<b>67</b>	<b>64</b>	<b>74</b>	<b>72</b>	<b>65</b>	<b>74</b>	<b>74</b>	<b>57</b>	<b>45</b>	<b>17</b>	<b>13</b>	<b>2</b>

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	
LGV3	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	
LGV4	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	
PLB	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	
LGV6	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	
HGV7	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	
HGV8	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	
FBDD	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	
MC	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	
PV5	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	
NFB6	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	
NFB7	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	
NFB8	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	
FBSD	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.0034</b>	<b>0.0032</b>	<b>0.0022</b>	<b>0.0032</b>	<b>0.0032</b>	<b>0.0175</b>	<b>0.0177</b>	<b>0.0431</b>	<b>0.0774</b>	<b>0.0795</b>	<b>0.0626</b>	<b>0.0631</b>	<b>0.0639</b>	<b>0.0622</b>	<b>0.0622</b>	<b>0.0631</b>	<b>0.0572</b>	<b>0.0622</b>	<b>0.0622</b>	<b>0.0523</b>	<b>0.0476</b>	<b>0.0113</b>	<b>0.0026</b>	<b>0.0043</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.01</b>	<b>0.01</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>0.03</b>	<b>0.03</b>	<b>0.07</b>	<b>0.12</b>	<b>0.13</b>	<b>0.10</b>	<b>0.10</b>	<b>0.10</b>	<b>0.10</b>	<b>0.10</b>	<b>0.10</b>	<b>0.09</b>	<b>0.10</b>	<b>0.10</b>	<b>0.08</b>	<b>0.08</b>	<b>0.02</b>	<b>0.00</b>	<b>0.01</b>



### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM13 Lung Yiu Street  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	4	2	1	1	0	3	10	20	32	34	26	23	22	22	24	23	23	24	24	22	13	4	6	1
2	LGV3	1	1	0	1	0	1	5	12	18	19	12	11	10	9	11	11	11	12	10	3	3	2	0	
3	LGV4	0	0	0	0	0	0	4	6	14	15	10	9	8	7	9	9	10	8	5	2	1	2	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	4	6	14	15	9	8	7	6	8	8	8	9	7	3	2	1	1	
6	HGV7	0	0	0	0	0	0	1	4	28	32	21	17	19	18	21	20	20	19	3	3	1	0	0	
7	HGV8	0	0	0	0	0	0	2	4	38	42	21	17	19	18	21	20	20	19	3	3	1	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	
10	TAXI	2	1	1	0	0	0	5	12	19	21	12	11	10	10	11	11	11	12	10	4	3	2	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		7	4	2	2	0	4	31	70	169	184	118	103	102	97	112	109	109	110	112	64	35	16	13	4

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
	PC	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
LGV3	0.022	0.022	0.022	0.022	0.022	0.022	0.023	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.025	0.025	0.025	0.024	0.024	0.024	0.024	0.022	
LGV4	0.025	0.025	0.025	0.025	0.025	0.025	0.026	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.025	
PLB	0.028	0.028	0.028	0.028	0.028	0.028	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.031	0.031	0.031	0.030	0.030	0.030	0.030	0.028	
LGV6	0.053	0.053	0.053	0.053	0.053	0.053	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.056	0.056	0.056	0.055	0.055	0.055	0.055	0.053	
HGV7	0.053	0.053	0.053	0.053	0.053	0.053	0.055	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.057	0.057	0.057	0.056	0.056	0.056	0.056	0.053	
HGV8	0.134	0.134	0.134	0.134	0.134	0.134	0.139	0.142	0.142	0.142	0.142	0.142	0.142	0.142	0.142	0.142	0.145	0.145	0.145	0.142	0.142	0.142	0.142	0.134	
FBDD	0.157	0.157	0.157	0.157	0.157	0.157	0.163	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.169	0.169	0.169	0.166	0.166	0.166	0.166	0.157	
MC	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.009	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.024	0.024	0.024	0.024	0.024	0.024	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.027	0.027	0.027	0.026	0.026	0.026	0.026	0.024	
PV5	0.037	0.037	0.037	0.037	0.037	0.037	0.039	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.042	0.042	0.042	0.040	0.040	0.040	0.040	0.037	
NFB6	0.065	0.065	0.065	0.065	0.065	0.065	0.069	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.073	0.073	0.073	0.070	0.070	0.070	0.070	0.065	
NFB7	0.062	0.062	0.062	0.062	0.062	0.062	0.065	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.067	0.067	0.067	0.066	0.066	0.066	0.066	0.062	
NFB8	0.231	0.231	0.231	0.231	0.231	0.231	0.239	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.248	0.248	0.248	0.244	0.244	0.244	0.244	0.231	
FBSD	0.164	0.164	0.164	0.164	0.164	0.164	0.169	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.175	0.175	0.175	0.172	0.172	0.172	0.172	0.164	
<b>Total composite emission factor (g/Veh/km)</b>		0.0053	0.0074	0.0018	0.0130	0.0000	0.0083	0.0262	0.0345	0.0559	0.0562	0.0516	0.0503	0.0536	0.0532	0.0533	0.0530	0.0541	0.0536	0.0518	0.0240	0.0294	0.0281	0.0126	0.0267
<b>Total composite emission factor (g/Veh/mile)</b>		0.01	0.01	0.00	0.02	0.00	0.01	0.04	0.06	0.09	0.09	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.04	0.05	0.05	0.02	0.04

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM14\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	2	2	2	0	2	5	13	73	96	103	167	173	144	137	154	157	153	145	160	144	116	23	5	6
2	LGV3	1	3	4	1	2	5	8	7	20	24	44	43	40	38	43	41	43	43	40	50	15	4	3	
3	LGV4	1	1	1	3	2	6	5	4	10	11	38	37	35	34	38	37	38	38	36	35	38	9	4	0
4	PLB	5	3	2	2	2	2	3	6	6	6	12	11	10	10	11	11	11	12	10	8	8	7	6	
5	LGV6	1	1	1	3	2	6	5	4	11	11	34	33	32	31	34	33	34	34	32	32	37	12	3	1
6	HGV7	0	0	0	0	0	0	1	2	149	190	138	132	123	104	119	135	132	112	100	7	7	2	0	0
7	HGV8	0	0	0	0	0	0	2	11	65	79	26	21	31	27	41	38	20	12	48	9	8	6	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	
9	MC	0	0	0	0	0	0	0	1	1	1	5	5	4	5	5	5	5	5	4	4	4	3	4	4
10	TAXI	2	2	2	2	3	5	7	40	48	51	62	70	63	57	63	64	63	64	62	59	20	3	1	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	4	4	4	3	2	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	4	4	4	3	2	2
13	NFB6	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	14	14	11	10	9	9	9
14	NFB7	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	14	14	11	10	9	9	9
15	NFB8	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	14	14	11	10	9	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	13	13	11	9	8	8	7	7
<b>Total Flow (veh)</b>		<b>28</b>	<b>17</b>	<b>17</b>	<b>15</b>	<b>17</b>	<b>33</b>	<b>54</b>	<b>158</b>	<b>426</b>	<b>500</b>	<b>602</b>	<b>597</b>	<b>547</b>	<b>503</b>	<b>581</b>	<b>595</b>	<b>567</b>	<b>536</b>	<b>576</b>	<b>414</b>	<b>385</b>	<b>152</b>	<b>78</b>	<b>65</b>

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.002	0.002	0.002	0.002
LGV3	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.023	0.023	0.023	0.024	0.020	0.020	0.020	0.020	0.019	0.024	0.024	0.024	0.023	0.023	0.017	0.017	0.016	0.016
LGV4	0.018	0.018	0.018	0.018	0.018	0.018	0.019	0.026	0.026	0.026	0.027	0.022	0.022	0.022	0.023	0.021	0.027	0.027	0.027	0.026	0.026	0.019	0.019	0.018	0.018
PLB	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.029	0.030	0.030	0.030	0.026	0.026	0.026	0.025	0.030	0.030	0.030	0.030	0.030	0.030	0.024	0.024	0.024	0.024
LGV6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.054	0.055	0.055	0.055	0.050	0.050	0.050	0.051	0.050	0.055	0.055	0.055	0.055	0.055	0.048	0.048	0.048	0.048
HGV7	0.042	0.041	0.041	0.041	0.041	0.041	0.042	0.054	0.055	0.055	0.056	0.047	0.047	0.047	0.048	0.046	0.056	0.056	0.056	0.055	0.055	0.042	0.042	0.042	0.042
HGV8	0.108	0.107	0.107	0.107	0.107	0.107	0.108	0.137	0.139	0.139	0.142	0.121	0.121	0.121	0.123	0.118	0.142	0.142	0.142	0.139	0.139	0.108	0.108	0.108	0.108
FBDD	0.130	0.129	0.129	0.129	0.129	0.129	0.130	0.160	0.163	0.163	0.166	0.143	0.143	0.143	0.145	0.139	0.166	0.166	0.166	0.163	0.163	0.130	0.130	0.130	0.130
MC	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.009	0.010	0.010	0.010	0.008	0.008	0.008	0.008	0.007	0.010	0.010	0.010	0.010	0.010	0.007	0.006	0.006	0.006
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.025	0.026	0.026	0.026	0.021	0.021	0.021	0.022	0.020	0.026	0.026	0.026	0.026	0.026	0.018	0.018	0.018	0.017
PV5	0.030	0.029	0.029	0.029	0.029	0.029	0.030	0.038	0.039	0.039	0.040	0.033	0.033	0.033	0.033	0.032	0.040	0.040	0.040	0.039	0.039	0.030	0.030	0.030	0.030
NFB6	0.052	0.052	0.052	0.052	0.052	0.052	0.053	0.067	0.069	0.069	0.070	0.058	0.058	0.058	0.059	0.056	0.070	0.070	0.070	0.069	0.069	0.053	0.053	0.052	0.052
NFB7	0.050	0.050	0.050	0.050	0.050	0.050	0.051	0.063	0.065	0.065	0.066	0.057	0.057	0.057	0.058	0.055	0.066	0.066	0.066	0.065	0.065	0.051	0.051	0.050	0.050
NFB8	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.235	0.239	0.239	0.244	0.209	0.209	0.209	0.212	0.203	0.244	0.244	0.244	0.239	0.239	0.187	0.187	0.187	0.187
FBSD	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.166	0.169	0.169	0.172	0.150	0.150	0.150	0.152	0.147	0.172	0.172	0.172	0.169	0.169	0.138	0.138	0.138	0.138
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.0641</b>	<b>0.0439</b>	<b>0.0434</b>	<b>0.0458</b>	<b>0.0378</b>	<b>0.0291</b>	<b>0.0360</b>	<b>0.0240</b>	<b>0.0512</b>	<b>0.0534</b>	<b>0.0435</b>	<b>0.0349</b>	<b>0.0375</b>	<b>0.0371</b>	<b>0.0398</b>	<b>0.0375</b>	<b>0.0427</b>	<b>0.0414</b>	<b>0.0468</b>	<b>0.0361</b>	<b>0.0353</b>	<b>0.0469</b>	<b>0.0684</b>	<b>0.0726</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.10</b>	<b>0.07</b>	<b>0.07</b>	<b>0.07</b>	<b>0.06</b>	<b>0.05</b>	<b>0.06</b>	<b>0.04</b>	<b>0.08</b>	<b>0.09</b>	<b>0.07</b>	<b>0.06</b>	<b>0.06</b>	<b>0.06</b>	<b>0.06</b>	<b>0.07</b>	<b>0.07</b>	<b>0.08</b>	<b>0.06</b>	<b>0.06</b>	<b>0.08</b>	<b>0.11</b>	<b>0.12</b>	<b>0.12</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM15\_Lung Yiu Street  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	3	1	1	1	0	2	7	14	22	23	11	9	9	9	9	9	9	9	9	5	1	4	1	
2	LGV3	1	1	0	1	0	1	3	9	13	13	4	4	3	3	4	4	3	4	4	0	1	2	0	
3	LGV4	0	0	0	0	0	0	2	2	9	10	3	4	3	2	3	4	4	3	4	3	1	1	2	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	2	2	9	10	2	3	2	1	2	3	3	2	3	2	0	1	1	
6	HGV7	0	0	0	0	0	0	1	2	18	21	16	12	15	14	17	15	15	16	14	1	2	0	0	
7	HGV8	0	0	0	0	0	0	1	2	24	27	16	12	15	14	17	15	15	16	14	1	2	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	
10	TAXI	1	0	1	0	0	0	3	9	13	15	2	2	1	2	1	2	2	1	2	1	1	1	1	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	
14	NFB7	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	
15	NFB8	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		<b>5</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>19</b>	<b>46</b>	<b>114</b>	<b>125</b>	<b>58</b>	<b>53</b>	<b>49</b>	<b>56</b>	<b>56</b>	<b>56</b>	<b>54</b>	<b>54</b>	<b>22</b>	<b>12</b>	<b>5</b>	<b>10</b>	<b>4</b>	

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
	PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
LGV3	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	
LGV4	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	
PLB	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	
LGV6	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	
HGV7	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	
HGV8	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	
FBDD	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	
MC	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	
PV5	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	
NFB6	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	
NFB7	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	
NFB8	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	
FBSD	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.0054</b>	<b>0.0107</b>	<b>0.0014</b>	<b>0.0107</b>	<b>0.0000</b>	<b>0.0081</b>	<b>0.0198</b>	<b>0.0280</b>	<b>0.0452</b>	<b>0.0456</b>	<b>0.0545</b>	<b>0.0516</b>	<b>0.0565</b>	<b>0.0560</b>	<b>0.0589</b>	<b>0.0547</b>	<b>0.0547</b>	<b>0.0581</b>	<b>0.0537</b>	<b>0.0195</b>	<b>0.0303</b>	<b>0.0183</b>	<b>0.0126</b>	<b>0.0235</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.01</b>	<b>0.02</b>	<b>0.00</b>	<b>0.02</b>	<b>0.00</b>	<b>0.01</b>	<b>0.03</b>	<b>0.05</b>	<b>0.07</b>	<b>0.07</b>	<b>0.09</b>	<b>0.08</b>	<b>0.09</b>	<b>0.09</b>	<b>0.09</b>	<b>0.09</b>	<b>0.09</b>	<b>0.09</b>	<b>0.09</b>	<b>0.03</b>	<b>0.05</b>	<b>0.03</b>	<b>0.02</b>	<b>0.04</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM16\_Lung Hong Street  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	1	1	0	0	1	3	6	10	11	15	14	13	13	15	14	15	15	13	8	3	2	0		
2	LGV3	0	0	0	0	0	2	3	5	6	8	7	6	8	7	7	8	8	6	3	2	0	0		
3	LGV4	0	0	0	0	0	2	4	5	5	7	5	5	6	5	5	6	6	5	4	1	0	0		
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5	LGV6	0	0	0	0	0	2	4	5	5	7	5	5	6	5	5	6	6	5	3	1	0	0		
6	HGV7	0	0	0	0	0	0	2	10	11	5	5	4	4	4	5	5	4	5	2	1	1	0		
7	HGV8	0	0	0	0	0	1	2	14	15	5	5	4	4	4	5	5	4	5	2	1	1	0		
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	1	1	0	0	0	2	3	6	6	10	9	9	8	10	9	9	10	10	9	3	2	1		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Total Flow (veh)</b>		<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>12</b>	<b>24</b>	<b>55</b>	<b>59</b>	<b>60</b>	<b>53</b>	<b>49</b>	<b>48</b>	<b>56</b>	<b>53</b>	<b>53</b>	<b>56</b>	<b>58</b>	<b>42</b>	<b>23</b>	<b>11</b>	<b>3</b>	<b>0</b>	

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
	PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
LGV3	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	
LGV4	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	
PLB	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	
LGV6	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	
HGV7	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	
HGV8	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	
FBDD	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	
MC	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	
PV5	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	
NFB6	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	
NFB7	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	
NFB8	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	
FBSD	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.0014</b>	<b>0.0014</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0028</b>	<b>0.0255</b>	<b>0.0285</b>	<b>0.0469</b>	<b>0.0469</b>	<b>0.0303</b>	<b>0.0313</b>	<b>0.0300</b>	<b>0.0307</b>	<b>0.0283</b>	<b>0.0313</b>	<b>0.0313</b>	<b>0.0283</b>	<b>0.0302</b>	<b>0.0198</b>	<b>0.0207</b>	<b>0.0255</b>	<b>0.0019</b>	<b>0.0000</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.04</b>	<b>0.05</b>	<b>0.08</b>	<b>0.08</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.03</b>	<b>0.03</b>	<b>0.04</b>	<b>0.00</b>	<b>0.00</b>	

# Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: R1\_Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	89	0	0	0	0	0	0

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
PC	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	
LGV3	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	
LGV4	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	
PLB	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	
LGV6	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	
HGV7	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	
HGV8	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	
FBDD	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	
MC	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	
PV5	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	
NFB6	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	
NFB7	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	
NFB8	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	
FBSD	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3034	0.3033	0.3041	0.3035	0.3040	0.3042	0.3034	0.3041	0.3038	0.3031	0.3043	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.00	0.00	0.00	0.00	0.00

## Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: R2\_Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0		
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	89	0	0	0	0		

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
	PC	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
LGV3	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
LGV4	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
PLB	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
LGV6	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096
HGV7	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161
HGV8	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329
FBDD	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328
MC	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054
PV5	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
NFB6	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
NFB7	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153
NFB8	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521
FBSD	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3034	0.3033	0.3041	0.3035	0.3040	0.3042	0.3034	0.3041	0.3038	0.3031	0.3043	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.00	0.00	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section R3\_Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0		
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	89	0	0	0	0		

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
	PC	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
LGV3	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
LGV4	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
PLB	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
LGV6	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096
HGV7	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161
HGV8	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329
FBDD	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328
MC	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054
PV5	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
NFB6	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
NFB7	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153
NFB8	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521
FBSD	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3034	0.3033	0.3041	0.3035	0.3040	0.3042	0.3034	0.3041	0.3038	0.3031	0.3043	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.00	0.00	0.00	0.00

## Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: R4 Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0	0	0

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
	PC	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
LGV3	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	
LGV4	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	
PLB	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	
LGV6	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	
HGV7	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	
HGV8	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	
FBDD	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	
MC	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	
PV5	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	
NFB6	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	
NFB7	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	
NFB8	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	
FBSD	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3034	0.3033	0.3041	0.3035	0.3040	0.3042	0.3034	0.3041	0.3038	0.3031	0.3043	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.00	0.00	0.00	0.00	0.00



### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: R5\_Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>139</b>	<b>290</b>	<b>272</b>	<b>252</b>	<b>244</b>	<b>218</b>	<b>264</b>	<b>258</b>	<b>282</b>	<b>89</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
PC	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	
LGV3	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	
LGV4	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	
PLB	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	
LGV6	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	
HGV7	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	
HGV8	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	
FBDD	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	
MC	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	
PV5	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	
NFB6	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	
NFB7	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	
NFB8	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	
FBSD	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.3034</b>	<b>0.3033</b>	<b>0.3041</b>	<b>0.3035</b>	<b>0.3040</b>	<b>0.3042</b>	<b>0.3034</b>	<b>0.3041</b>	<b>0.3038</b>	<b>0.3031</b>	<b>0.3043</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.49</b>	<b>0.49</b>	<b>0.49</b>	<b>0.49</b>	<b>0.49</b>	<b>0.49</b>	<b>0.49</b>	<b>0.49</b>	<b>0.49</b>	<b>0.49</b>	<b>0.49</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: R6\_ Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	89	0	0	0	0	0	0

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																								
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
PC	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	
LGV3	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	
LGV4	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	
PLB	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	
LGV6	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	
HGV7	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	
HGV8	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	
FBDD	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	
MC	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	
PV5	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	
NFB6	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	
NFB7	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	
NFB8	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	
FBSD	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3034	0.3033	0.3041	0.3035	0.3040	0.3042	0.3034	0.3041	0.3038	0.3031	0.3043	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.00	0.00	0.00	0.00	0.00

## Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

**District:** Tuen Mun Fill Bank  
**Road Section:** R7\_Internal Road  
**Year:** 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	0	116	244	230	212	206	184	222	218	238	208	74	0	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	116	244	230	212	206	184	222	218	238	208	74	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	137	288	270	250	242	216	262	256	280	246	87	0	0	0	0	

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
	PC	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
LGV3	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
LGV4	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
PLB	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
LGV6	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096
HGV7	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161
HGV8	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329
FBDD	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328
MC	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054
PV5	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
NFB6	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
NFB7	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153
NFB8	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521
FBSD	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3031	0.3031	0.3039	0.3033	0.3038	0.3039	0.3032	0.3039	0.3036	0.3029	0.3037	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.00	0.00	0.00	0.00



### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: R9 Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	Hour																							
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
PC	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
LGV3	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
LGV4	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
PLB	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
LGV6	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096
HGV7	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161
HGV8	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329
FBDD	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328
MC	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054
PV5	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
NFB6	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
NFB7	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153
NFB8	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521
FBSD	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.00	0.00	0.00	0.00	0.00











### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: R25\_ Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
	PC	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
LGV3	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
LGV4	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
PLB	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
LGV6	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096
HGV7	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161
HGV8	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329
FBDD	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328
MC	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054
PV5	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
NFB6	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
NFB7	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153
NFB8	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521
FBSD	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.00	0.00	0.00	0.00



### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: R27\_Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
	PC	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
LGV3	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
LGV4	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
PLB	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
LGV6	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096
HGV7	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161
HGV8	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329
FBDD	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328
MC	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054
PV5	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
NFB6	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
NFB7	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153
NFB8	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521
FBSD	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.00	0.00	0.00	0.00

# Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: R28\_Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17

**PM10 emission factor (g/Veh/km, EMFAC Veh categories)**

Description	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
	PC	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
LGV3	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
LGV4	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
PLB	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
LGV6	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096
HGV7	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161
HGV8	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329
FBDD	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328
MC	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054
PV5	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
NFB6	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
NFB7	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153
NFB8	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521
FBSD	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320

<b>Total composite emission factor (g/Veh/km)</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.3288	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.00	0.00	0.00	0.00

# Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

0499746 TMFB

Pollutant Name: PM2.5

Speed km/hr	PC ALL	LGV3 ALL	LGV4 ALL	PLB ALL	LGV6 ALL	HGV7 ALL	HGV8 ALL	HGV8b ALL	FBDD ALL	MC ALL	TAXI ALL	PV4 ALL	PV5 ALL	NFB6 ALL	NFB7 ALL	NFB8 ALL	FBSD ALL
10	0.010	0.042	0.046	0.062	0.088	0.148	0.303	0.118	0.302	0.019	0.000	0.050	0.087	0.151	0.141	0.479	0.295
17	0.007	0.034	0.037	0.045	0.069	0.089	0.207	0.084	0.229	0.014	0.000	0.039	0.066	0.113	0.095	0.342	0.227
18	0.007	0.033	0.036	0.043	0.067	0.085	0.199	0.081	0.222	0.014	0.000	0.038	0.063	0.109	0.091	0.329	0.221
27	0.005	0.025	0.029	0.032	0.055	0.060	0.150	0.063	0.173	0.010	0.000	0.029	0.045	0.078	0.069	0.255	0.177
28	0.005	0.025	0.028	0.031	0.055	0.058	0.146	0.062	0.169	0.009	0.000	0.028	0.044	0.076	0.067	0.249	0.173
29	0.004	0.024	0.027	0.030	0.054	0.057	0.143	0.060	0.166	0.009	0.000	0.027	0.042	0.073	0.066	0.243	0.170
30	0.004	0.024	0.026	0.030	0.053	0.055	0.140	0.059	0.162	0.009	0.000	0.026	0.041	0.071	0.064	0.238	0.167
31	0.004	0.023	0.026	0.029	0.052	0.054	0.137	0.058	0.159	0.008	0.000	0.026	0.039	0.069	0.063	0.233	0.164
32	0.004	0.023	0.025	0.028	0.052	0.053	0.134	0.057	0.156	0.008	0.000	0.025	0.038	0.067	0.062	0.229	0.161
33	0.004	0.022	0.025	0.028	0.051	0.052	0.131	0.056	0.153	0.008	0.000	0.024	0.037	0.065	0.061	0.224	0.158
34	0.004	0.021	0.024	0.027	0.050	0.050	0.128	0.054	0.150	0.008	0.000	0.024	0.036	0.063	0.059	0.220	0.155
35	0.004	0.021	0.024	0.027	0.050	0.049	0.126	0.054	0.147	0.007	0.000	0.023	0.035	0.061	0.058	0.216	0.153
36	0.003	0.021	0.023	0.026	0.049	0.048	0.123	0.053	0.144	0.007	0.000	0.022	0.034	0.060	0.057	0.212	0.151
37	0.003	0.020	0.023	0.026	0.049	0.047	0.121	0.052	0.142	0.007	0.000	0.022	0.033	0.059	0.056	0.209	0.148
38	0.003	0.020	0.022	0.025	0.048	0.047	0.119	0.051	0.140	0.007	0.000	0.021	0.033	0.057	0.055	0.205	0.146
39	0.003	0.019	0.022	0.025	0.048	0.046	0.117	0.050	0.137	0.007	0.000	0.021	0.032	0.056	0.055	0.202	0.144
40	0.003	0.019	0.021	0.025	0.047	0.045	0.115	0.049	0.135	0.007	0.000	0.020	0.031	0.055	0.054	0.198	0.142
41	0.003	0.018	0.021	0.024	0.047	0.044	0.113	0.048	0.133	0.006	0.000	0.020	0.031	0.054	0.053	0.195	0.140
42	0.003	0.018	0.020	0.024	0.046	0.044	0.112	0.048	0.132	0.006	0.000	0.020	0.030	0.053	0.052	0.192	0.138
43	0.003	0.018	0.020	0.024	0.046	0.043	0.110	0.047	0.130	0.006	0.000	0.019	0.030	0.052	0.051	0.190	0.137
44	0.003	0.017	0.020	0.023	0.046	0.042	0.108	0.046	0.128	0.006	0.000	0.019	0.029	0.052	0.051	0.187	0.135
45	0.003	0.017	0.019	0.023	0.045	0.042	0.107	0.046	0.126	0.006	0.000	0.018	0.029	0.051	0.050	0.184	0.134
50	0.002	0.016	0.018	0.022	0.044	0.039	0.100	0.043	0.120	0.005	0.000	0.017	0.028	0.049	0.047	0.172	0.127
51	0.002	0.015	0.017	0.022	0.044	0.039	0.099	0.043	0.119	0.005	0.000	0.016	0.027	0.048	0.047	0.172	0.127
52	0.002	0.015	0.017	0.022	0.044	0.038	0.099	0.043	0.119	0.005	0.000	0.016	0.027	0.048	0.046	0.172	0.127
53	0.002	0.015	0.017	0.022	0.044	0.038	0.099	0.043	0.119	0.005	0.000	0.016	0.027	0.048	0.046	0.172	0.127
54	0.002	0.015	0.016	0.022	0.044	0.037	0.098	0.043	0.119	0.005	0.000	0.016	0.027	0.048	0.045	0.172	0.127

EMFAC-HK Model (v 4.1) Key Assumptions:

Mode: EMFAC

Calendar Year 2019

Temperature and relative humidity 24 degree C, 77% (2018 average at Tuen Mun Weather Station)

Vehicle Population (external traffic) Default (i.e. HGV8 emission factors for Roads R1 to R7, R9, R25 to R28)

Vehicle Population (internal traffic) All HGV8 (year 2019) are of Euro V standard (i.e. HGV8b emission factors for Roads R8, R11, R14, R15 and R17)

Vehicle Accrual Default

Trips: Default (not used. No starting emissions as parking restrictions apply for all identified major roads within the Study Area)

VKT: Default (not used in EMFAC mode)



### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM1\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	16	11	8	5	6	12	32	113	163	176	247	240	209	200	228	223	220	218	236	209	160	51	32	19
2	LGV3	7	5	5	3	3	8	17	29	55	59	76	71	66	63	72	71	70	72	75	66	66	25	13	8
3	LGV4	4	2	2	3	2	7	11	17	36	38	62	58	54	52	59	58	59	60	54	54	17	11	6	6
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	4	2	2	3	2	7	11	17	36	38	57	53	50	48	54	53	54	55	50	51	20	10	6	6
6	HGV7	0	0	0	0	0	0	4	20	286	364	274	254	231	225	261	262	268	251	214	16	12	4	0	0
7	HGV8	0	0	0	0	0	0	10	48	666	831	645	590	565	524	632	621	628	588	496	39	28	10	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	5	6	6	6	6	6	6	5	4	4	4	4
10	TAXI	9	5	6	4	5	7	15	64	88	96	100	103	92	87	99	97	96	99	102	92	76	34	15	5
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
<b>Total Flow (veh)</b>		<b>61</b>	<b>33</b>	<b>30</b>	<b>24</b>	<b>24</b>	<b>47</b>	<b>113</b>	<b>331</b>	<b>1367</b>	<b>1643</b>	<b>1561</b>	<b>1464</b>	<b>1353</b>	<b>1281</b>	<b>1501</b>	<b>1480</b>	<b>1486</b>	<b>1437</b>	<b>1338</b>	<b>612</b>	<b>518</b>	<b>226</b>	<b>141</b>	<b>98</b>

**PM2.5 emission factor (g/Veh/km, EMEFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.005	0.005	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003	0.003	0.002	0.002	0.002	
LGV3	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.021	0.025	0.025	0.021	0.018	0.018	0.017	0.018	0.018	0.021	0.024	0.023	0.019	0.019	0.016	0.015	0.015	
LGV4	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.024	0.028	0.029	0.024	0.021	0.020	0.020	0.021	0.021	0.024	0.027	0.026	0.021	0.021	0.018	0.017	0.017	
PLB	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.027	0.031	0.032	0.027	0.024	0.024	0.023	0.024	0.024	0.027	0.030	0.029	0.025	0.025	0.022	0.022	0.022	
LGV6	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.050	0.055	0.055	0.050	0.047	0.046	0.046	0.047	0.047	0.050	0.054	0.052	0.047	0.047	0.044	0.044	0.044	
HGV7	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.049	0.058	0.060	0.049	0.044	0.044	0.042	0.044	0.044	0.050	0.057	0.054	0.045	0.045	0.039	0.039	0.038	
HGV8	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.126	0.146	0.150	0.126	0.113	0.112	0.108	0.113	0.113	0.128	0.143	0.137	0.115	0.115	0.100	0.099	0.099	
FBDD	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.147	0.169	0.173	0.147	0.133	0.132	0.128	0.133	0.133	0.150	0.166	0.159	0.135	0.135	0.120	0.119	0.119	
MC	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.007	0.009	0.010	0.007	0.006	0.006	0.006	0.006	0.006	0.008	0.008	0.009	0.008	0.007	0.007	0.005	0.005	0.005
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.023	0.028	0.029	0.023	0.020	0.020	0.019	0.020	0.020	0.024	0.027	0.026	0.020	0.020	0.017	0.016	0.016	0.016
PV5	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.035	0.044	0.045	0.035	0.031	0.030	0.029	0.031	0.031	0.036	0.042	0.039	0.031	0.031	0.028	0.027	0.027	
NFB6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.061	0.076	0.078	0.061	0.054	0.053	0.052	0.054	0.054	0.063	0.073	0.069	0.055	0.055	0.049	0.048	0.048	
NFB7	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.058	0.067	0.069	0.058	0.053	0.052	0.051	0.053	0.053	0.059	0.066	0.063	0.054	0.054	0.047	0.047	0.046	
NFB8	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.216	0.249	0.255	0.216	0.195	0.192	0.187	0.195	0.195	0.220	0.243	0.233	0.198	0.198	0.172	0.172	0.172	
FBSD	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.153	0.173	0.177	0.153	0.140	0.138	0.135	0.140	0.140	0.155	0.170	0.164	0.142	0.142	0.127	0.127	0.127	
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.0320</b>	<b>0.0241</b>	<b>0.0255</b>	<b>0.0280</b>	<b>0.0256</b>	<b>0.0213</b>	<b>0.0287</b>	<b>0.0340</b>	<b>0.0900</b>	<b>0.0953</b>	<b>0.0711</b>	<b>0.0628</b>	<b>0.0633</b>	<b>0.0607</b>	<b>0.0648</b>	<b>0.0647</b>	<b>0.0738</b>	<b>0.0807</b>	<b>0.0723</b>	<b>0.0297</b>	<b>0.0294</b>	<b>0.0343</b>	<b>0.0393</b>	<b>0.0486</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.05</b>	<b>0.04</b>	<b>0.04</b>	<b>0.05</b>	<b>0.04</b>	<b>0.03</b>	<b>0.05</b>	<b>0.05</b>	<b>0.15</b>	<b>0.15</b>	<b>0.11</b>	<b>0.10</b>	<b>0.10</b>	<b>0.10</b>	<b>0.10</b>	<b>0.10</b>	<b>0.12</b>	<b>0.13</b>	<b>0.12</b>	<b>0.05</b>	<b>0.05</b>	<b>0.06</b>	<b>0.06</b>	<b>0.08</b>



### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM2\_Unnamed Road to River Trade Terminal  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	4	3	2	1	1	1	3	5	8	8	17	13	13	15	13	13	15	17	13	10	7	7	5	
2	LGV3	3	1	1	1	1	1	1	3	5	5	5	4	4	5	5	5	5	5	4	4	3	3		
3	LGV4	2	1	1	0	0	0	1	2	3	3	4	3	3	3	3	3	3	3	4	3	3	3		
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5	LGV6	2	1	1	0	0	0	1	2	3	3	4	3	3	3	3	3	4	3	3	3	3	2		
6	HGV7	0	0	0	0	0	0	2	2	64	69	57	52	38	56	63	54	59	63	65	1	1	0		
7	HGV8	0	0	0	0	0	0	6	16	396	406	333	306	277	265	314	311	324	314	331	2	2	1		
8	FBDD	0	0	0	0	0	0	0	0	396	406	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	2	1	1	1	1	1	1	2	4	5	5	3	3	5	3	3	5	5	3	1	1	1		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Total Flow (veh)</b>		13	7	6	3	3	3	15	32	483	499	425	385	341	347	408	392	410	408	431	29	24	19	17	

**PM2.5 emission factor (g/Veh/km, EMEAC Veh categories)**

Description	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
	PC	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
LGV3	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.033	0.033	0.033	0.033	
LGV4	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.036	0.036	0.036	0.036	
PLB	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.043	0.043	0.043	0.043	
LGV6	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.067	0.067	0.067	0.067	
HGV7	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.085	0.085	0.085	0.085	
HGV8	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.199	0.199	0.199	0.199	
FBDD	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.222	0.222	0.222	0.222	
MC	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.038	0.038	0.038	0.038	
PV5	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.063	0.063	0.063	0.063	
NFB6	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.109	0.109	0.109	0.109	
NFB7	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.091	0.091	0.091	0.091	
NFB8	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.329	0.329	0.329	0.329	
FBSD	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.221	0.221	0.221	0.221	
<b>Total composite emission factor (g/Veh/km)</b>		0.0255	0.0224	0.0249	0.0132	0.0132	0.0132	0.0102	0.1152	0.1826	0.1817	0.1757	0.1780	0.1796	0.1740	0.1744	0.1779	0.1777	0.1744	0.1740	0.0349	0.0413	0.0389	0.0268
<b>Total composite emission factor (g/Veh/mile)</b>		0.04	0.04	0.04	0.02	0.02	0.02	0.16	0.19	0.29	0.29	0.28	0.29	0.29	0.28	0.28	0.29	0.29	0.28	0.28	0.06	0.07	0.06	0.04

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM3\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	12	8	6	4	5	11	29	108	155	168	230	227	196	187	213	210	207	203	219	196	150	44	25	14
2	LGV3	4	4	4	2	2	7	16	26	50	54	71	66	62	59	67	66	65	67	70	62	62	22	10	5
3	LGV4	2	1	1	3	2	7	10	15	33	35	58	55	51	49	56	55	55	56	56	51	51	14	8	4
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	2	1	1	3	2	7	10	15	33	35	53	50	47	45	51	50	50	51	51	47	48	17	7	4
6	HGV7	0	0	0	0	0	0	2	18	222	295	217	202	193	169	198	208	209	188	149	15	11	3	0	0
7	HGV8	0	0	0	0	0	0	4	32	270	425	312	284	288	259	318	310	304	274	165	37	26	9	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	5	6	6	6	6	6	6	5	4	4	4	4
10	TAXI	7	4	5	3	4	6	14	62	84	91	95	100	89	84	94	94	93	94	97	89	75	33	14	4
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
<b>Total Flow (veh)</b>		<b>48</b>	<b>26</b>	<b>24</b>	<b>21</b>	<b>21</b>	<b>44</b>	<b>98</b>	<b>299</b>	<b>884</b>	<b>1144</b>	<b>1136</b>	<b>1079</b>	<b>1012</b>	<b>934</b>	<b>1093</b>	<b>1088</b>	<b>1076</b>	<b>1029</b>	<b>907</b>	<b>583</b>	<b>494</b>	<b>207</b>	<b>124</b>	<b>85</b>

**PM2.5 emission factor (g/Veh/km, EMEFAC Veh categories)**

Description	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
	PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.003	0.003	0.002	0.002	0.002
LGV3	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.020	0.021	0.021	0.021	0.017	0.017	0.018	0.018	0.018	0.021	0.024	0.023	0.018	0.017	0.016	0.015	0.015	
LGV4	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.023	0.024	0.024	0.024	0.020	0.020	0.020	0.021	0.021	0.024	0.027	0.026	0.021	0.020	0.018	0.017	0.017	
PLB	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.026	0.027	0.027	0.027	0.023	0.023	0.024	0.024	0.024	0.027	0.030	0.029	0.024	0.023	0.022	0.022	0.022	
LGV6	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.049	0.050	0.050	0.050	0.046	0.046	0.046	0.047	0.047	0.050	0.054	0.052	0.047	0.046	0.044	0.044	0.044	
HGV7	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.047	0.049	0.049	0.049	0.042	0.042	0.043	0.044	0.044	0.050	0.057	0.054	0.044	0.042	0.039	0.039	0.038	
HGV8	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.121	0.126	0.126	0.126	0.108	0.108	0.110	0.113	0.113	0.128	0.143	0.137	0.113	0.108	0.100	0.099	0.099	
FBDD	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.142	0.147	0.147	0.147	0.128	0.128	0.130	0.133	0.133	0.150	0.166	0.159	0.133	0.128	0.120	0.119	0.119	
MC	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.008	0.009	0.008	0.006	0.006	0.005	0.005	0.005	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.022	0.023	0.023	0.023	0.019	0.019	0.019	0.020	0.020	0.024	0.027	0.026	0.020	0.019	0.017	0.016	0.016	
PV5	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.033	0.035	0.035	0.035	0.029	0.029	0.030	0.031	0.031	0.036	0.042	0.039	0.031	0.029	0.028	0.027	0.027	
NFB6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.059	0.061	0.061	0.061	0.052	0.052	0.052	0.054	0.054	0.063	0.073	0.069	0.054	0.052	0.049	0.048	0.048	
NFB7	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.056	0.058	0.058	0.058	0.051	0.051	0.051	0.053	0.053	0.059	0.066	0.063	0.053	0.051	0.047	0.047	0.046	
NFB8	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.209	0.216	0.216	0.216	0.187	0.187	0.190	0.195	0.195	0.220	0.243	0.233	0.195	0.187	0.172	0.172	0.172	
FBSD	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.148	0.153	0.153	0.153	0.135	0.135	0.137	0.140	0.140	0.155	0.170	0.164	0.140	0.135	0.127	0.127	0.127	
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.0370</b>	<b>0.0274</b>	<b>0.0286</b>	<b>0.0312</b>	<b>0.0284</b>	<b>0.0224</b>	<b>0.0254</b>	<b>0.0287</b>	<b>0.0591</b>	<b>0.0666</b>	<b>0.0580</b>	<b>0.0484</b>	<b>0.0505</b>	<b>0.0506</b>	<b>0.0536</b>	<b>0.0532</b>	<b>0.0601</b>	<b>0.0652</b>	<b>0.0525</b>	<b>0.0296</b>	<b>0.0278</b>	<b>0.0355</b>	<b>0.0427</b>	<b>0.0539</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.06</b>	<b>0.04</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.04</b>	<b>0.04</b>	<b>0.05</b>	<b>0.10</b>	<b>0.11</b>	<b>0.09</b>	<b>0.08</b>	<b>0.08</b>	<b>0.08</b>	<b>0.09</b>	<b>0.09</b>	<b>0.10</b>	<b>0.11</b>	<b>0.08</b>	<b>0.05</b>	<b>0.04</b>	<b>0.06</b>	<b>0.07</b>	<b>0.09</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM5\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	10	7	5	4	5	11	28	106	152	165	219	217	187	179	203	200	197	193	209	187	142	38	19	9
2	LGV3	2	4	4	2	2	7	16	24	48	52	65	62	58	55	63	62	61	63	64	58	58	18	6	3
3	LGV4	1	1	1	3	2	7	10	14	32	34	54	52	48	46	53	52	52	53	52	48	48	11	5	2
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	1	1	1	3	2	7	10	14	32	34	49	47	44	42	48	47	47	48	47	44	45	14	4	2
6	HGV7	0	0	0	0	0	0	2	17	202	251	177	164	157	137	158	170	167	150	137	14	11	3	0	0
7	HGV8	0	0	0	0	0	0	4	28	156	179	80	70	80	73	94	90	64	64	99	31	23	8	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	6	6	6	6	6	6	6	6	5	4	4	4
10	TAXI	5	4	5	3	4	6	14	60	82	89	88	94	84	79	88	88	87	88	90	84	70	29	10	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	13	11	9	8	7
<b>Total Flow (veh)</b>		40	25	23	21	21	44	97	286	741	845	832	801	744	693	803	804	768	755	798	552	468	186	104	71

**PM2.5 emission factor (g/Veh/km, EMEFAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.002	0.002	0.002
LGV3	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.021	0.021	0.021	0.022	0.018	0.018	0.018	0.018	0.017	0.022	0.022	0.022	0.021	0.021	0.016	0.015	0.015	
LGV4	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.024	0.024	0.024	0.025	0.020	0.020	0.020	0.021	0.020	0.025	0.025	0.025	0.024	0.024	0.018	0.017	0.017	
PLB	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.027	0.027	0.027	0.028	0.024	0.024	0.024	0.024	0.023	0.028	0.028	0.028	0.027	0.027	0.022	0.022	0.022	
LGV6	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.050	0.050	0.050	0.051	0.046	0.046	0.046	0.047	0.046	0.051	0.051	0.051	0.050	0.050	0.044	0.044	0.044	
HGV7	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.049	0.050	0.050	0.052	0.044	0.044	0.044	0.044	0.042	0.052	0.052	0.052	0.050	0.050	0.039	0.039	0.038	
HGV8	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.126	0.128	0.128	0.131	0.112	0.112	0.112	0.113	0.108	0.131	0.131	0.131	0.128	0.128	0.100	0.099	0.099	
FBDD	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.147	0.150	0.150	0.153	0.132	0.132	0.132	0.133	0.128	0.153	0.153	0.153	0.150	0.150	0.120	0.119	0.119	
MC	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.007	0.008	0.008	0.008	0.006	0.006	0.006	0.006	0.006	0.008	0.008	0.008	0.008	0.008	0.005	0.005	0.005	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.023	0.024	0.024	0.024	0.020	0.020	0.020	0.020	0.019	0.024	0.024	0.024	0.024	0.024	0.017	0.016	0.016	
PV5	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.035	0.036	0.036	0.037	0.030	0.030	0.030	0.031	0.029	0.037	0.037	0.037	0.036	0.036	0.028	0.027	0.027	
NFB6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.061	0.063	0.063	0.065	0.053	0.053	0.053	0.054	0.052	0.065	0.065	0.065	0.063	0.063	0.049	0.048	0.048	
NFB7	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.058	0.059	0.059	0.061	0.052	0.052	0.052	0.053	0.051	0.061	0.061	0.061	0.059	0.059	0.047	0.047	0.046	
NFB8	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.216	0.220	0.220	0.224	0.192	0.192	0.192	0.195	0.187	0.224	0.224	0.224	0.220	0.220	0.172	0.172	0.172	
FBSD	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.153	0.155	0.155	0.158	0.138	0.138	0.138	0.140	0.135	0.158	0.158	0.158	0.155	0.155	0.127	0.127	0.127	
<b>Total composite emission factor (g/Veh/km)</b>		0.0421	0.0284	0.0298	0.0312	0.0284	0.0224	0.0256	0.0288	0.0507	0.0518	0.0428	0.0350	0.0372	0.0368	0.0387	0.0368	0.0418	0.0418	0.0449	0.0333	0.0332	0.0376	0.0484	0.0623
<b>Total composite emission factor (g/Veh/mile)</b>		0.07	0.05	0.05	0.05	0.05	0.04	0.04	0.05	0.08	0.08	0.07	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.05	0.05	0.06	0.08	0.10

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM7, Siu Lang Shui Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	1	4	8	10	7	5	5	7	5	5	7	7	5	1	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	8	15	18	11	9	9	9	11	9	9	11	11	2	0	0	0	
7	HGV8	0	0	0	0	0	0	0	6	13	14	8	7	7	8	7	8	8	8	4	2	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	1	3	6	8	4	2	2	2	4	2	2	4	4	2	0	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		0	0	0	0	0	2	21	47	55	31	24	24	24	31	24	24	31	31	14	3	0	0	0	

**PM2.5 emission factor (g/Veh/km, EMEAC Veh categories)**

Description	Hour																							
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
LGV3	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
LGV4	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
PLB	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
LGV6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048
HGV7	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
HGV8	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117
FBDD	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137
MC	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
PV5	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032
NFB6	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056
NFB7	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055
NFB8	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202
FBSD	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0015	0.0514	0.0504	0.0478	0.0477	0.0527	0.0527	0.0527	0.0477	0.0527	0.0527	0.0477	0.0477	0.0424	0.0790	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.13	0.00	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM8\_Unnamed Road to Cemetery  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	0	0	0	0	0	0	0	2	3	2	1	1	1	2	0	1	2	1	2	1	0	1	0	0
2	LGV3	0	0	0	0	0	0	0	1	0	1	0	1	1	0	1	1	1	1	1	1	1	0	0	
3	LGV4	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	1	3	3	2	2	2	2	2	2	2	2	2	2	2	0	0	0	
7	HGV8	0	0	0	0	0	0	1	2	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	0	1	0	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		0	0	0	0	0	0	2	11	12	5	5	4	5	5	4	5	4	5	4	5	3	0	1	0

**PM2.5 emission factor (g/Veh/km, EMEAC Veh categories)**

Description	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
	PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
LGV3	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
LGV4	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
PLB	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
LGV6	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
HGV7	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
HGV8	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110
FBDD	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130
MC	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
PV5	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
NFB6	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052
NFB7	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051
NFB8	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190
FBSD	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0764	0.0398	0.0391	0.0218	0.0397	0.0266	0.0212	0.0218	0.0489	0.0212	0.0266	0.0218	0.0068	0.0000	0.0027	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.06	0.06	0.04	0.06	0.04	0.03	0.04	0.08	0.03	0.04	0.04	0.01	0.00	0.00	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM9, Siu Lang Shui Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	0	0	0	0	0	1	4	10	13	9	6	6	6	9	5	6	8	9	6	1	1	0	0	
2	LGV3	0	0	0	0	0	0	0	2	1	2	1	2	2	1	2	2	2	2	2	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	9	18	21	13	11	11	11	13	11	11	13	13	2	0	0	0	0	
7	HGV8	0	0	0	0	0	0	7	15	16	8	8	7	7	8	8	5	8	8	4	2	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	1	3	6	8	4	3	2	3	4	3	3	4	4	3	0	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	0	0	

**PM2.5 emission factor (g/Veh/km, EMEAC Veh categories)**

Description	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
	PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
LGV3	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
LGV4	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
PLB	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
LGV6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048
HGV7	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047
HGV8	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119
FBDD	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140
MC	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
PV5	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033
NFB6	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057
NFB7	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055
NFB8	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205
FBSD	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0016	0.0550	0.0498	0.0475	0.0452	0.0518	0.0501	0.0484	0.0452	0.0536	0.0432	0.0464	0.0452	0.0369	0.0804	0.0031	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.08	0.08	0.07	0.08	0.08	0.08	0.07	0.09	0.07	0.07	0.07	0.06	0.13	0.01	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM10\_Lung Fat Street  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	0	0	0	0	0	1	4	10	13	9	6	6	6	9	5	6	8	9	6	1	1	0	0	
2	LGV3	0	0	0	0	0	0	0	2	1	2	1	2	2	1	2	2	2	2	2	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
4	PLB	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0		
5	LGV6	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
6	HGV7	0	0	0	0	0	0	9	18	21	13	11	11	11	13	11	11	13	13	2	0	0	0		
7	HGV8	0	0	0	0	0	0	7	15	16	8	8	7	7	8	8	5	8	8	4	2	0	0		
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	0	0	0	0	0	1	3	6	8	4	3	2	3	4	3	3	4	4	3	0	0	0		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Total Flow (veh)</b>		0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	0	0	

**PM2.5 emission factor (g/Veh/km, EMEAC Veh categories)**

Description	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
	PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
LGV3	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
LGV4	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
PLB	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
LGV6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048
HGV7	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047
HGV8	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119
FBDD	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140
MC	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
PV5	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033
NFB6	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057
NFB7	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055
NFB8	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205
FBSD	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0016	0.0550	0.0498	0.0475	0.0452	0.0518	0.0501	0.0484	0.0452	0.0536	0.0432	0.0464	0.0452	0.0369	0.0804	0.0031	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.08	0.08	0.07	0.08	0.08	0.08	0.07	0.09	0.07	0.07	0.07	0.06	0.13	0.01	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM11\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	6	4	3	1	2	8	23	93	128	137	193	196	166	159	178	180	176	169	184	166	129	27	11	7
2	LGV3	2	4	4	2	2	6	13	19	38	43	56	54	50	47	54	54	52	54	55	50	53	18	6	3
3	LGV4	1	1	1	3	2	6	9	10	24	26	48	46	43	41	47	46	47	46	43	43	11	5	2	
4	PLB	5	3	2	2	2	2	3	6	6	6	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	1	1	1	3	2	6	9	10	25	26	43	41	39	37	42	41	42	41	39	40	14	4	2	
6	HGV7	0	0	0	0	0	0	2	6	177	222	159	149	142	122	140	155	152	132	119	10	10	3	0	0
7	HGV8	0	0	0	0	0	0	4	15	103	121	47	38	50	45	62	58	40	32	67	12	11	7	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	5	6	6	6	6	6	6	5	4	4	4	4
10	TAXI	4	3	3	2	3	5	12	52	67	72	74	81	73	67	74	75	74	74	76	72	63	23	5	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
<b>Total Flow (veh)</b>		<b>35</b>	<b>21</b>	<b>19</b>	<b>17</b>	<b>17</b>	<b>37</b>	<b>85</b>	<b>228</b>	<b>595</b>	<b>684</b>	<b>720</b>	<b>700</b>	<b>649</b>	<b>600</b>	<b>693</b>	<b>704</b>	<b>676</b>	<b>646</b>	<b>688</b>	<b>478</b>	<b>420</b>	<b>168</b>	<b>91</b>	<b>69</b>

**PM2.5 emission factor (g/Veh/km, EMEFAC Veh categories)**

Description	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
	PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.002	0.002
LGV3	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.021	0.021	0.021	0.022	0.018	0.018	0.018	0.018	0.017	0.022	0.022	0.022	0.021	0.021	0.016	0.015	0.015	
LGV4	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.024	0.024	0.024	0.025	0.020	0.020	0.020	0.021	0.020	0.025	0.025	0.025	0.024	0.024	0.018	0.017	0.017	
PLB	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.027	0.027	0.027	0.028	0.024	0.024	0.024	0.024	0.023	0.028	0.028	0.028	0.027	0.027	0.022	0.022	0.022	
LGV6	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.050	0.050	0.050	0.051	0.046	0.046	0.046	0.047	0.046	0.051	0.051	0.051	0.050	0.050	0.044	0.044	0.044	
HGV7	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.049	0.050	0.050	0.052	0.044	0.044	0.044	0.044	0.042	0.052	0.052	0.052	0.050	0.050	0.039	0.039	0.038	
HGV8	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.126	0.128	0.128	0.131	0.112	0.112	0.112	0.113	0.108	0.131	0.131	0.131	0.128	0.128	0.100	0.099	0.099	
FBDD	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.147	0.150	0.150	0.153	0.132	0.132	0.132	0.133	0.128	0.153	0.153	0.153	0.150	0.150	0.120	0.119	0.119	
MC	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.007	0.008	0.008	0.008	0.006	0.006	0.006	0.006	0.006	0.008	0.008	0.008	0.008	0.008	0.005	0.005	0.005	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.023	0.024	0.024	0.024	0.020	0.020	0.020	0.020	0.019	0.024	0.024	0.024	0.024	0.024	0.017	0.016	0.016	
PV5	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.035	0.036	0.036	0.037	0.030	0.030	0.030	0.031	0.029	0.037	0.037	0.037	0.036	0.036	0.028	0.027	0.027	
NFB6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.061	0.063	0.063	0.065	0.053	0.053	0.053	0.054	0.052	0.065	0.065	0.065	0.063	0.063	0.049	0.048	0.048	
NFB7	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.058	0.059	0.059	0.061	0.052	0.052	0.052	0.053	0.051	0.061	0.061	0.061	0.059	0.059	0.047	0.047	0.046	
NFB8	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.216	0.220	0.220	0.224	0.192	0.192	0.192	0.195	0.187	0.224	0.224	0.224	0.220	0.220	0.172	0.172	0.172	
FBSD	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.153	0.155	0.155	0.158	0.138	0.138	0.138	0.140	0.135	0.158	0.158	0.158	0.155	0.155	0.127	0.127	0.127	
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.0478</b>	<b>0.0335</b>	<b>0.0358</b>	<b>0.0381</b>	<b>0.0347</b>	<b>0.0244</b>	<b>0.0278</b>	<b>0.0247</b>	<b>0.0480</b>	<b>0.0495</b>	<b>0.0412</b>	<b>0.0331</b>	<b>0.0357</b>	<b>0.0353</b>	<b>0.0376</b>	<b>0.0353</b>	<b>0.0408</b>	<b>0.0398</b>	<b>0.0436</b>	<b>0.0316</b>	<b>0.0319</b>	<b>0.0409</b>	<b>0.0551</b>	<b>0.0640</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.08</b>	<b>0.05</b>	<b>0.06</b>	<b>0.06</b>	<b>0.06</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.08</b>	<b>0.08</b>	<b>0.07</b>	<b>0.05</b>	<b>0.06</b>	<b>0.06</b>	<b>0.06</b>	<b>0.06</b>	<b>0.07</b>	<b>0.06</b>	<b>0.07</b>	<b>0.05</b>	<b>0.05</b>	<b>0.07</b>	<b>0.09</b>	<b>0.10</b>



### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM12\_Unnamed Road to EcoPark  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	4	3	2	3	3	3	4	9	14	15	17	15	14	16	15	15	16	16	15	12	10	8	2	
2	LGV3	0	0	0	0	0	1	3	5	8	8	7	6	6	7	7	7	7	6	5	0	0	0		
3	LGV4	0	0	0	0	0	1	1	4	6	6	6	5	6	6	6	6	6	5	5	0	0	0		
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5	LGV6	0	0	0	0	0	1	1	4	6	6	6	5	6	6	6	5	6	5	5	0	0	0		
6	HGV7	0	0	0	0	0	0	0	2	7	8	5	4	4	5	4	4	5	5	2	1	0	0		
7	HGV8	0	0	0	0	0	0	0	6	38	42	25	24	23	21	24	19	24	24	15	10	1	0		
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	1	1	2	1	1	1	1	5	9	9	10	10	9	9	10	10	10	10	9	7	6	5		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Total Flow (veh)</b>		<b>5</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>7</b>	<b>10</b>	<b>35</b>	<b>88</b>	<b>94</b>	<b>76</b>	<b>72</b>	<b>67</b>	<b>64</b>	<b>74</b>	<b>72</b>	<b>65</b>	<b>74</b>	<b>74</b>	<b>57</b>	<b>45</b>	<b>17</b>	<b>13</b>	<b>2</b>

**PM2.5 emission factor (g/Veh/km, EMEAC Veh categories)**

Description	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
	PC	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
LGV3	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	
LGV4	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	
PLB	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	
LGV6	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	
HGV7	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	
HGV8	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	
FBDD	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	
MC	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	
PV5	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	
NFB6	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	
NFB7	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	
NFB8	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	
FBSD	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.0032</b>	<b>0.0030</b>	<b>0.0020</b>	<b>0.0030</b>	<b>0.0030</b>	<b>0.0161</b>	<b>0.0163</b>	<b>0.0397</b>	<b>0.0713</b>	<b>0.0732</b>	<b>0.0576</b>	<b>0.0581</b>	<b>0.0589</b>	<b>0.0573</b>	<b>0.0573</b>	<b>0.0581</b>	<b>0.0526</b>	<b>0.0573</b>	<b>0.0573</b>	<b>0.0481</b>	<b>0.0438</b>	<b>0.0104</b>	<b>0.0025</b>	<b>0.0040</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.03</b>	<b>0.03</b>	<b>0.06</b>	<b>0.11</b>	<b>0.12</b>	<b>0.09</b>	<b>0.09</b>	<b>0.09</b>	<b>0.09</b>	<b>0.09</b>	<b>0.08</b>	<b>0.09</b>	<b>0.09</b>	<b>0.08</b>	<b>0.07</b>	<b>0.02</b>	<b>0.00</b>	<b>0.01</b>	

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM13\_Lung Yiu Street  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	4	2	1	1	0	3	10	20	32	34	26	23	22	22	24	23	23	24	24	22	13	4	6	1
2	LGV3	1	1	0	1	0	1	5	12	18	19	12	11	10	9	11	11	11	11	12	10	3	3	2	
3	LGV4	0	0	0	0	0	0	4	6	14	15	10	9	8	7	9	9	9	10	8	5	2	1	2	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	4	6	14	15	9	8	7	6	8	8	8	9	7	3	2	1	1	
6	HGV7	0	0	0	0	0	0	1	4	28	32	21	17	19	18	21	20	20	20	19	3	3	1	0	
7	HGV8	0	0	0	0	0	0	2	4	38	42	21	17	19	18	21	20	20	20	19	3	3	1	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	
10	TAXI	2	1	1	0	0	0	5	12	19	21	12	11	10	10	11	11	11	12	10	4	3	2	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	
14	NFB7	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	
15	NFB8	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		7	4	2	2	0	4	31	70	169	184	118	103	102	97	112	109	109	110	112	64	35	16	13	

**PM2.5 emission factor (g/Veh/km, EMEAC Veh categories)**

Description	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
PC	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003
LGV3	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.023	0.023	0.023	0.022	0.022	0.022	0.022	0.021
LGV4	0.023	0.023	0.023	0.023	0.023	0.023	0.024	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.023
PLB	0.026	0.026	0.026	0.026	0.026	0.026	0.027	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.026
LGV6	0.049	0.049	0.049	0.049	0.049	0.049	0.050	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.052	0.052	0.052	0.051	0.051	0.051	0.051	0.049
HGV7	0.048	0.048	0.048	0.048	0.048	0.048	0.050	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.053	0.053	0.053	0.052	0.052	0.052	0.052	0.048
HGV8	0.123	0.123	0.123	0.123	0.123	0.123	0.128	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.134	0.134	0.134	0.131	0.131	0.131	0.131	0.123
FBDD	0.144	0.144	0.144	0.144	0.144	0.144	0.150	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.156	0.156	0.156	0.153	0.153	0.153	0.153	0.144
MC	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.007
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.022	0.022	0.022	0.022	0.022	0.022	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.025	0.025	0.025	0.024	0.024	0.024	0.022
PV5	0.034	0.034	0.034	0.034	0.034	0.034	0.036	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.038	0.038	0.038	0.037	0.037	0.037	0.037	0.034
NFB6	0.060	0.060	0.060	0.060	0.060	0.060	0.063	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.067	0.067	0.067	0.065	0.065	0.065	0.065	0.060
NFB7	0.057	0.057	0.057	0.057	0.057	0.057	0.059	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.062	0.062	0.062	0.061	0.061	0.061	0.061	0.057
NFB8	0.212	0.212	0.212	0.212	0.212	0.212	0.220	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.229	0.229	0.229	0.224	0.224	0.224	0.224	0.212
FBSD	0.151	0.151	0.151	0.151	0.151	0.151	0.155	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.161	0.161	0.161	0.158	0.158	0.158	0.158	0.151
<b>Total composite emission factor (g/Veh/km)</b>		0.0049	0.0068	0.0017	0.0120	0.0000	0.0077	0.0241	0.0317	0.0514	0.0517	0.0474	0.0462	0.0492	0.0489	0.0490	0.0487	0.0498	0.0493	0.0477	0.0220	0.0270	0.0259	0.0115
<b>Total composite emission factor (g/Veh/mile)</b>		0.01	0.01	0.00	0.02	0.00	0.01	0.04	0.05	0.08	0.08	0.08	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.04	0.04	0.04	0.02

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM14\_Lung Mun Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	2	2	2	0	2	5	13	73	96	103	167	173	144	137	154	157	153	145	160	144	116	23	5	6
2	LGV3	1	3	4	1	2	5	8	7	20	24	44	43	40	38	43	43	41	43	43	40	50	15	4	3
3	LGV4	1	1	1	3	2	6	5	4	10	11	38	37	35	34	38	37	38	38	36	35	38	9	4	0
4	PLB	5	3	2	2	2	2	3	6	6	6	12	11	10	10	11	11	11	12	10	8	8	7	6	
5	LGV6	1	1	1	3	2	6	5	4	11	11	34	33	32	31	34	33	34	34	32	32	37	12	3	1
6	HGV7	0	0	0	0	0	0	1	2	149	190	138	132	123	104	119	135	132	112	100	7	7	2	0	0
7	HGV8	0	0	0	0	0	0	2	11	65	79	26	21	31	27	41	38	20	12	48	9	8	6	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	
9	MC	0	0	0	0	0	0	0	1	1	1	5	5	4	5	5	5	5	5	5	4	4	4	3	4
10	TAXI	2	2	2	2	3	5	7	40	48	51	62	70	63	57	63	64	63	64	62	59	20	3	1	
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	14	14	11	10	9	9	
14	NFB7	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	14	14	11	10	9	9	
15	NFB8	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	14	14	11	10	9	9	
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	13	12	12	13	13	11	9	8	8	7	
<b>Total Flow (veh)</b>		28	17	17	15	17	33	54	158	426	500	602	597	547	503	581	595	567	536	576	414	385	152	78	65

**PM2.5 emission factor (g/Veh/km, EMEAC Veh categories)**

Description	Hour																								
	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.002	0.002	
LGV3	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.021	0.021	0.021	0.022	0.018	0.018	0.018	0.018	0.017	0.022	0.022	0.022	0.021	0.021	0.016	0.015	0.015	
LGV4	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.024	0.024	0.024	0.025	0.020	0.020	0.020	0.021	0.020	0.025	0.025	0.025	0.024	0.024	0.018	0.017	0.017	
PLB	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.027	0.027	0.027	0.028	0.024	0.024	0.024	0.024	0.023	0.028	0.028	0.028	0.027	0.027	0.022	0.022	0.022	
LGV6	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.050	0.050	0.050	0.051	0.046	0.046	0.046	0.047	0.046	0.051	0.051	0.051	0.050	0.050	0.044	0.044	0.044	
HGV7	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.049	0.050	0.050	0.052	0.044	0.044	0.044	0.044	0.042	0.052	0.052	0.052	0.050	0.050	0.039	0.039	0.038	
HGV8	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.126	0.128	0.128	0.131	0.112	0.112	0.112	0.113	0.108	0.131	0.131	0.131	0.128	0.128	0.100	0.099	0.099	
FBDD	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.147	0.150	0.150	0.153	0.132	0.132	0.132	0.133	0.128	0.153	0.153	0.153	0.150	0.150	0.120	0.119	0.119	
MC	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.007	0.008	0.008	0.008	0.006	0.006	0.006	0.006	0.006	0.008	0.008	0.008	0.008	0.008	0.005	0.005	0.005	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.023	0.024	0.024	0.024	0.020	0.020	0.020	0.020	0.019	0.024	0.024	0.024	0.024	0.024	0.017	0.016	0.016	
PV5	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.035	0.036	0.036	0.037	0.030	0.030	0.030	0.031	0.029	0.037	0.037	0.037	0.036	0.036	0.028	0.027	0.027	
NFB6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.061	0.063	0.063	0.065	0.053	0.053	0.053	0.054	0.052	0.065	0.065	0.065	0.063	0.063	0.049	0.048	0.048	
NFB7	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.058	0.059	0.059	0.061	0.052	0.052	0.052	0.053	0.051	0.061	0.061	0.061	0.059	0.059	0.047	0.047	0.046	
NFB8	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.216	0.220	0.220	0.224	0.192	0.192	0.192	0.195	0.187	0.224	0.224	0.224	0.220	0.220	0.172	0.172	0.172	
FBSD	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.153	0.155	0.155	0.158	0.138	0.138	0.138	0.140	0.135	0.158	0.158	0.158	0.155	0.155	0.127	0.127	0.127	
<b>Total composite emission factor (g/Veh/km)</b>		0.0589	0.0403	0.0399	0.0421	0.0347	0.0267	0.0331	0.0221	0.0470	0.0491	0.0400	0.0321	0.0345	0.0341	0.0366	0.0345	0.0392	0.0381	0.0430	0.0332	0.0324	0.0431	0.0629	0.0668
<b>Total composite emission factor (g/Veh/mile)</b>		0.10	0.07	0.06	0.07	0.06	0.04	0.05	0.04	0.08	0.08	0.06	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.05	0.05	0.07	0.10	0.11

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM15\_Lung Yiu Street  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	3	1	1	1	0	2	7	14	22	23	11	9	9	9	9	9	9	9	9	5	1	4	1	
2	LGV3	1	1	0	1	0	1	3	9	13	13	4	4	4	3	3	4	4	3	4	0	1	2	0	
3	LGV4	0	0	0	0	0	0	2	2	9	10	3	4	3	2	3	4	4	3	4	3	1	1	2	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	2	2	9	10	2	3	2	1	2	3	3	2	3	2	0	1	1	
6	HGV7	0	0	0	0	0	0	1	2	18	21	16	12	15	14	17	15	15	16	14	1	2	0	0	
7	HGV8	0	0	0	0	0	0	1	2	24	27	16	12	15	14	17	15	15	16	14	1	2	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	
10	TAXI	1	0	1	0	0	0	3	9	13	15	2	2	1	2	1	2	2	1	2	1	1	1	1	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	
14	NFB7	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	
15	NFB8	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		<b>5</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>19</b>	<b>46</b>	<b>114</b>	<b>125</b>	<b>58</b>	<b>50</b>	<b>49</b>	<b>56</b>	<b>56</b>	<b>56</b>	<b>54</b>	<b>54</b>	<b>22</b>	<b>12</b>	<b>5</b>	<b>10</b>	<b>4</b>	

**PM2.5 emission factor (g/Veh/km, EMEAC Veh categories)**

Description	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
	PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
LGV3	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	
LGV4	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	
PLB	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	
LGV6	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	
HGV7	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	
HGV8	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	
FBDD	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	
MC	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	
PV5	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	
NFB6	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	
NFB7	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	
NFB8	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	
FBSD	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.0050</b>	<b>0.0098</b>	<b>0.0013</b>	<b>0.0098</b>	<b>0.0000</b>	<b>0.0074</b>	<b>0.0182</b>	<b>0.0258</b>	<b>0.0415</b>	<b>0.0420</b>	<b>0.0501</b>	<b>0.0475</b>	<b>0.0520</b>	<b>0.0515</b>	<b>0.0542</b>	<b>0.0503</b>	<b>0.0503</b>	<b>0.0534</b>	<b>0.0494</b>	<b>0.0179</b>	<b>0.0279</b>	<b>0.0168</b>	<b>0.0115</b>	<b>0.0216</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.01</b>	<b>0.02</b>	<b>0.00</b>	<b>0.02</b>	<b>0.00</b>	<b>0.01</b>	<b>0.03</b>	<b>0.04</b>	<b>0.07</b>	<b>0.07</b>	<b>0.08</b>	<b>0.08</b>	<b>0.08</b>	<b>0.08</b>	<b>0.09</b>	<b>0.08</b>	<b>0.08</b>	<b>0.09</b>	<b>0.08</b>	<b>0.03</b>	<b>0.04</b>	<b>0.03</b>	<b>0.02</b>	<b>0.03</b>

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: TM16\_Lung Hong Street  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00
1	PC	1	1	0	0	0	1	3	6	10	11	15	14	13	13	15	14	15	15	13	8	3	2	0	
2	LGV3	0	0	0	0	0	0	2	3	5	6	8	7	6	8	7	7	8	8	6	3	2	0	0	
3	LGV4	0	0	0	0	0	0	2	4	5	5	7	5	5	6	5	5	6	6	5	4	1	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	2	4	5	5	7	5	5	6	5	5	6	6	5	3	1	0	0	
6	HGV7	0	0	0	0	0	0	0	2	10	11	5	5	4	4	5	5	4	5	2	1	1	0	0	
7	HGV8	0	0	0	0	0	0	1	2	14	15	5	5	4	4	5	5	4	5	2	1	1	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	1	1	0	0	0	0	2	3	6	6	10	9	9	8	10	9	9	10	10	9	3	2	1	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Flow (veh)</b>		<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>12</b>	<b>24</b>	<b>55</b>	<b>59</b>	<b>60</b>	<b>53</b>	<b>49</b>	<b>48</b>	<b>56</b>	<b>53</b>	<b>53</b>	<b>56</b>	<b>42</b>	<b>23</b>	<b>11</b>	<b>3</b>	<b>0</b>	

**PM2.5 emission factor (g/Veh/km, EMEAC Veh categories)**

Description	0:00   1:00	1:00   2:00	2:00   3:00	3:00   4:00	4:00   5:00	5:00   6:00	6:00   7:00	7:00   8:00	8:00   9:00	9:00   10:00	10:00   11:00	11:00   12:00	12:00   13:00	13:00   14:00	14:00   15:00	15:00   16:00	16:00   17:00	17:00   18:00	18:00   19:00	19:00   20:00	20:00   21:00	21:00   22:00	22:00   23:00	23:00   0:00	
	PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
LGV3	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	
LGV4	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	
PLB	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	
LGV6	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	
HGV7	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	
HGV8	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	
FBDD	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	
MC	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	
PV5	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	
NFB6	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	
NFB7	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	
NFB8	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	
FBSD	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	
<b>Total composite emission factor (g/Veh/km)</b>		<b>0.0013</b>	<b>0.0013</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0026</b>	<b>0.0234</b>	<b>0.0262</b>	<b>0.0432</b>	<b>0.0431</b>	<b>0.0279</b>	<b>0.0288</b>	<b>0.0276</b>	<b>0.0282</b>	<b>0.0261</b>	<b>0.0288</b>	<b>0.0288</b>	<b>0.0261</b>	<b>0.0277</b>	<b>0.0182</b>	<b>0.0190</b>	<b>0.0234</b>	<b>0.0017</b>	<b>0.0000</b>
<b>Total composite emission factor (g/Veh/mile)</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.04</b>	<b>0.04</b>	<b>0.07</b>	<b>0.07</b>	<b>0.05</b>	<b>0.05</b>	<b>0.04</b>	<b>0.05</b>	<b>0.04</b>	<b>0.05</b>	<b>0.05</b>	<b>0.04</b>	<b>0.04</b>	<b>0.03</b>	<b>0.03</b>	<b>0.04</b>	<b>0.00</b>	<b>0.00</b>	



### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section R2\_ Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0		
8	FBDD	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	89	0	0	0	0		

**PM2.5 emission factor (g/Veh/km, EMEAC Veh categories)**

Description	Hour																								
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
PC	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
LGV3	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	
LGV4	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	
PLB	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	
LGV6	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	
HGV7	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	
HGV8	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	
FBDD	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	
MC	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	
PV5	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	
NFB6	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	
NFB7	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	
NFB8	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	
FBSD	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2792	0.2791	0.2798	0.2792	0.2797	0.2798	0.2791	0.2797	0.2795	0.2788	0.2799	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: R3\_Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0		
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	89	0	0	0	0		

**PM2.5 emission factor (g/Veh/km, EMEAC Veh categories)**

Description	Hour																							
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
PC	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
LGV3	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	
LGV4	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	
PLB	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	
LGV6	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	
HGV7	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	
HGV8	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	
FBDD	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	
MC	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	
PV5	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	
NFB6	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	
NFB7	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	
NFB8	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	
FBSD	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2792	0.2791	0.2798	0.2792	0.2797	0.2798	0.2791	0.2797	0.2795	0.2788	0.2799	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.00	0.00	0.00	0.00













### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: R9 Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	

**PM2.5 emission factor (g/Veh/km, EMEAC Veh categories)**

Description	Hour																							
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
PC	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
LGV3	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	
LGV4	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	
PLB	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	
LGV6	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	
HGV7	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	
HGV8	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	
FBDD	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	
MC	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	
PV5	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	
NFB6	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	
NFB7	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	
NFB8	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	
FBSD	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3025	0.3025	0.3025	0.3025	0.3025	0.3025	0.3025	0.3025	0.3025	0.3025	0.0000	0.0000	0.0000	0.0000	
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.00	0.00	0.00	0.00	













### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: R26\_Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	

**PM2.5 emission factor (g/Veh/km, EMEAC Veh categories)**

Description	Hour																							
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
PC	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
LGV3	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042
LGV4	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
PLB	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062
LGV6	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088
HGV7	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148
HGV8	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303
FBDD	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302
MC	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
PV5	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087
NFB6	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151
NFB7	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141
NFB8	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479
FBSD	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3025	0.3025	0.3025	0.3025	0.3025	0.3025	0.3025	0.3025	0.3025	0.3025	0.3025	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.00	0.00	0.00	0.00

### Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank  
 Road Section: R27\_Internal Road  
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total Flow (veh)</b>		0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	

**PM2.5 emission factor (g/Veh/km, EMEAC Veh categories)**

Description	Hour																							
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
PC	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
LGV3	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042
LGV4	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
PLB	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062
LGV6	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088
HGV7	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148
HGV8	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303
FBDD	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302
MC	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
PV5	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087
NFB6	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151
NFB7	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141
NFB8	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479
FBSD	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295
<b>Total composite emission factor (g/Veh/km)</b>		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3025	0.3025	0.3025	0.3025	0.3025	0.3025	0.3025	0.3025	0.3025	0.3025	0.3025	0.0000	0.0000	0.0000	0.0000
<b>Total composite emission factor (g/Veh/mile)</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.00	0.00	0.00	0.00





Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

Ref.	Road Name	1200 - 1300				1300 - 1400				1400 - 1500				1500 - 1600				1600 - 1700				1700 - 1800			
		Traffic flow (Veh/hr)	NOx Total composite emission factor (g/Veh/mile)	PM10 Total composite emission factor (g/Veh/mile)	PM2.5 Total composite emission factor (g/Veh/mile)	Traffic flow (Veh/hr)	NOx Total composite emission factor (g/Veh/mile)	PM10 Total composite emission factor (g/Veh/mile)	PM2.5 Total composite emission factor (g/Veh/mile)	Traffic flow (Veh/hr)	NOx Total composite emission factor (g/Veh/mile)	PM10 Total composite emission factor (g/Veh/mile)	PM2.5 Total composite emission factor (g/Veh/mile)	Traffic flow (Veh/hr)	NOx Total composite emission factor (g/Veh/mile)	PM10 Total composite emission factor (g/Veh/mile)	PM2.5 Total composite emission factor (g/Veh/mile)	Traffic flow (Veh/hr)	NOx Total composite emission factor (g/Veh/mile)	PM10 Total composite emission factor (g/Veh/mile)	PM2.5 Total composite emission factor (g/Veh/mile)	Traffic flow (Veh/hr)	NOx Total composite emission factor (g/Veh/mile)	PM10 Total composite emission factor (g/Veh/mile)	PM2.5 Total composite emission factor (g/Veh/mile)
1	IM1 Lume Mun Road	1353	3.40	0.11	0.10	1281	3.28	0.11	0.10	1501	3.47	0.11	0.10	1480	3.48	0.11	0.10	1486	3.94	0.13	0.12	1437	4.30	0.14	0.13
2	IM2 Unnamed Road to River Trade Terminal	341	8.67	0.31	0.29	347	8.28	0.31	0.28	408	8.51	0.31	0.28	392	8.64	0.31	0.29	410	8.64	0.31	0.29	408	8.51	0.31	0.28
3	IM3 Lume Mun Road	1012	2.89	0.09	0.08	934	2.89	0.09	0.08	1093	3.03	0.09	0.09	1088	3.03	0.09	0.09	1076	3.40	0.11	0.10	1029	3.67	0.11	0.11
4	IM5 Lume Mun Road	744	2.39	0.07	0.06	693	2.36	0.06	0.06	803	2.45	0.07	0.06	804	2.36	0.06	0.06	788	2.69	0.07	0.07	755	2.67	0.07	0.07
5	IM7 Siu Lang Shui Road	24	3.19	0.09	0.08	24	3.19	0.09	0.08	31	2.95	0.08	0.08	24	3.19	0.09	0.08	24	3.19	0.09	0.08	31	2.95	0.08	0.08
6	IM8 Unnamed Road to Cemetery	4	2.33	0.05	0.04	5	2.03	0.04	0.03	5	1.88	0.04	0.04	4	3.30	0.09	0.08	5	2.03	0.04	0.03	4	2.33	0.05	0.04
7	IM9 Siu Lang Shui Road	28	3.13	0.09	0.08	29	3.06	0.08	0.08	36	2.86	0.08	0.07	28	3.28	0.09	0.09	27	2.87	0.08	0.07	35	2.94	0.08	0.07
8	IM10 Lume Fat Street	28	3.13	0.09	0.08	29	3.06	0.08	0.08	36	2.86	0.08	0.07	28	3.28	0.09	0.09	27	2.87	0.08	0.07	35	2.94	0.08	0.07
9	IM11 Lume Mun Road	649	2.35	0.06	0.06	600	2.31	0.06	0.06	693	2.41	0.07	0.06	704	2.31	0.06	0.06	676	2.66	0.07	0.07	646	2.60	0.07	0.06
10	IM12 Unnamed Road to EcoPark	67	3.17	0.10	0.09	64	3.12	0.10	0.09	74	3.13	0.10	0.09	72	3.16	0.10	0.09	65	2.93	0.09	0.08	74	3.13	0.10	0.09
11	IM13 Lume Yiu Street	102	2.99	0.09	0.08	97	2.97	0.09	0.08	112	2.99	0.09	0.08	109	2.97	0.09	0.08	109	3.05	0.09	0.08	110	3.00	0.09	0.08
12	IM14 Lume Mun Road	547	2.30	0.06	0.06	503	2.26	0.06	0.06	581	2.37	0.06	0.06	592	2.29	0.06	0.06	567	2.43	0.07	0.06	536	2.53	0.07	0.06
13	IM15 Lume Yiu Street	53	3.07	0.09	0.08	49	3.04	0.09	0.08	58	3.18	0.09	0.08	56	3.03	0.09	0.08	56	3.03	0.09	0.08	54	3.14	0.09	0.09
14	IM16 Lume Hong	49	1.89	0.05	0.04	48	1.91	0.05	0.05	56	1.82	0.05	0.04	53	1.94	0.05	0.05	53	1.94	0.05	0.05	56	1.82	0.05	0.04
15	RI1 Internal Road	244	13.32	0.49	0.45	218	13.32	0.49	0.45	264	13.30	0.49	0.45	258	13.32	0.49	0.45	282	13.31	0.49	0.45	248	13.28	0.49	0.45
16	RI2 Internal Road	244	13.32	0.49	0.45	218	13.32	0.49	0.45	264	13.30	0.49	0.45	258	13.32	0.49	0.45	282	13.31	0.49	0.45	248	13.28	0.49	0.45
17	RI3 Internal Road	244	13.32	0.49	0.45	218	13.32	0.49	0.45	264	13.30	0.49	0.45	258	13.32	0.49	0.45	282	13.31	0.49	0.45	248	13.28	0.49	0.45
18	RI4 Internal Road	244	13.32	0.49	0.45	218	13.32	0.49	0.45	264	13.30	0.49	0.45	258	13.32	0.49	0.45	282	13.31	0.49	0.45	248	13.28	0.49	0.45
19	RI5 Internal Road	244	13.32	0.49	0.45	218	13.32	0.49	0.45	264	13.30	0.49	0.45	258	13.32	0.49	0.45	282	13.31	0.49	0.45	248	13.28	0.49	0.45
20	RI6 Internal Road	244	13.32	0.49	0.45	218	13.32	0.49	0.45	264	13.30	0.49	0.45	258	13.32	0.49	0.45	282	13.31	0.49	0.45	248	13.28	0.49	0.45
21	RI7 Internal Road	244	13.32	0.49	0.45	218	13.32	0.49	0.45	264	13.30	0.49	0.45	258	13.32	0.49	0.45	282	13.31	0.49	0.45	248	13.28	0.49	0.45
22	RI8 Internal Road	132	11.34	0.21	0.19	132	11.34	0.21	0.19	132	11.34	0.21	0.19	132	11.34	0.21	0.19	132	11.34	0.21	0.19	132	11.34	0.21	0.19
23	RI9 Internal Road	2	14.21	0.53	0.49	2	14.21	0.53	0.49	2	14.21	0.53	0.49	2	14.21	0.53	0.49	2	14.21	0.53	0.49	2	14.21	0.53	0.49
24	RI10 Internal Road	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00
25	RI11 Internal Road	80	11.34	0.21	0.19	80	11.34	0.21	0.19	80	11.34	0.21	0.19	80	11.34	0.21	0.19	80	11.34	0.21	0.19	80	11.34	0.21	0.19
26	RI12 Internal Road	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00
27	RI13 Internal Road	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00
28	RI14 Internal Road	66	11.34	0.21	0.19	66	11.34	0.21	0.19	66	11.34	0.21	0.19	66	11.34	0.21	0.19	66	11.34	0.21	0.19	66	11.34	0.21	0.19
29	RI15 Internal Road	66	11.34	0.21	0.19	66	11.34	0.21	0.19	66	11.34	0.21	0.19	66	11.34	0.21	0.19	66	11.34	0.21	0.19	66	11.34	0.21	0.19
30	RI16 Internal Road	66	11.34	0.21	0.19	66	11.34	0.21	0.19	66	11.34	0.21	0.19	66	11.34	0.21	0.19	66	11.34	0.21	0.19	66	11.34	0.21	0.19
31	RI17 Internal Road	17	14.21	0.53	0.49	17	14.21	0.53	0.49	17	14.21	0.53	0.49	17	14.21	0.53	0.49	17	14.21	0.53	0.49	17	14.21	0.53	0.49
32	RI18 Internal Road	17	14.21	0.53	0.49	17	14.21	0.53	0.49	17	14.21	0.53	0.49	17	14.21	0.53	0.49	17	14.21	0.53	0.49	17	14.21	0.53	0.49
33	RI19 Internal Road	17	14.21	0.53	0.49	17	14.21	0.53	0.49	17	14.21	0.53	0.49	17	14.21	0.53	0.49	17	14.21	0.53	0.49	17	14.21	0.53	0.49
34	RI20 Internal Road	17	14.21	0.53	0.49	17	14.21	0.53	0.49	17	14.21	0.53	0.49	17	14.21	0.53	0.49	17	14.21	0.53	0.49	17	14.21	0.53	0.49

Ref.	Road Name	1800 - 1900				1900 - 2000				2000 - 2100				2100 - 2200				2200 - 2300				2300 - 2400			
		Traffic flow (Veh/hr)	NOx Total composite emission factor (g/Veh/mile)	PM10 Total composite emission factor (g/Veh/mile)	PM2.5 Total composite emission factor (g/Veh/mile)	Traffic flow (Veh/hr)	NOx Total composite emission factor (g/Veh/mile)	PM10 Total composite emission factor (g/Veh/mile)	PM2.5 Total composite emission factor (g/Veh/mile)	Traffic flow (Veh/hr)	NOx Total composite emission factor (g/Veh/mile)	PM10 Total composite emission factor (g/Veh/mile)	PM2.5 Total composite emission factor (g/Veh/mile)	Traffic flow (Veh/hr)	NOx Total composite emission factor (g/Veh/mile)	PM10 Total composite emission factor (g/Veh/mile)	PM2.5 Total composite emission factor (g/Veh/mile)	Traffic flow (Veh/hr)	NOx Total composite emission factor (g/Veh/mile)	PM10 Total composite emission factor (g/Veh/mile)	PM2.5 Total composite emission factor (g/Veh/mile)	Traffic flow (Veh/hr)	NOx Total composite emission factor (g/Veh/mile)	PM10 Total composite emission factor (g/Veh/mile)	PM2.5 Total composite emission factor (g/Veh/mile)
1	IM1 Lume Mun Road	1338	3.89	0.13	0.12	612	1.85	0.05	0.05	518	1.87	0.05	0.05	226	2.07	0.06	0.06	141	2.25	0.07	0.06	98	2.67	0.09	0.08
2	IM2 Unnamed Road to River Trade Terminal	431	8.49	0.31	0.28	29	2.14	0.06	0.06	24	2.47	0.07	0.07	19	2.46	0.07	0.06	17	1.86	0.05	0.04	13	1.88	0.05	0.04
3	IM3 Lume Mun Road	907	3.08	0.09	0.08	583	1.85	0.05	0.05	494	1.79	0.05	0.04	207	2.13	0.06	0.06	124	2.41	0.07	0.07	85	2.90	0.09	0.09
4	IM5 Lume Mun Road	798	2.75	0.08	0.07	532	2.05	0.06	0.05	468	2.09	0.06	0.05	186	2.22	0.07	0.06	104	2.65	0.08	0.08	71	3.27	0.11	0.10
5	IM7 Siu Lang Shui Road	31	2.95	0.08	0.08	14	2.39	0.07	0.07	3	3.62	0.14	0.13	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00
6	IM8 Unnamed Road to Cemetery	5	1.88	0.04	0.04	3	0.95	0.01	0.01	0	0.00	0.00	0.00	1	0.07	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00
7	IM9 Siu Lang Shui Road	36	2.86	0.08	0.07	17	2.18	0.06	0.06	3	3.69	0.14	0.13	1	0.07	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00
8	IM10 Lume Fat Street	76	2.86	0.08	0.07	17	2.18	0.06	0.06	3	3.69	0.14	0.13	1	0.07	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00
9	IM11 Lume Mun Road	688	2.70	0.08	0.07	478	1.98	0.06	0.05	420	2.04	0.06	0.05	168	2.40	0.07	0.07	91	2.86	0.09	0.09	69	3.37	0.11	0.10
10	IM12 Unnamed Road to EcoPark	74	3.13	0.10	0.09	57	2.69	0.08	0.08	45	2.51	0.08	0.07	17	0.76	0.02	0.02	13	0.42	0.00	0.00	2	0.08	0.01	0.01
11	IM13 Lume Yiu Street	112	2.93	0.08	0.08	64	1.99	0.04	0.04	35	1.79	0.05	0.04	16	1.88	0.05	0.04	13	0.96	0.02	0.02	4	1.70	0.04	0.04
12	IM14 Lume Mun Road	576	2.67	0.08	0.07	414	2.05	0.06	0.05	385	2.07	0.06	0.05	152	2.49	0.08	0.07	78	3.35	0.11	0.10	65	3.49	0.12	0.11
13	IM15 Lume Yiu Street	54	2.96	0.09	0.08	23	1.99	0.03	0.03	12	1.88	0.05	0.04	3	1.43	0.03	0.03	0	0.00	0.00	0.00	4	1.52	0.04	0.03
14	IM16 Lume Hong	58	1.90	0.05	0.04	42	1.40	0.03	0.03	23	1.40	0.03	0.03	11	1.70	0.04	0.04	3	0.32	0.00	0.00	0	0.00	0.00	0.00
15	RI1 Internal Road	89	13.33	0.49	0.45	0</																			



## Annex A3 - Configurations of Roads

Road No.	Road Name	Starting Co		Width (m)	Base Elevation (m)	Height of Road from Ground (m)	Model Height <sup>(a)</sup> (m)	Ending Co		Road Type
		X-co	Y-co					X-co	Y-co	
1	TM1_Lung Mun Road	811947.5	825382.3	16.0	11.6	0.0	6.6	811771.2	825460.8	1
2	TM2_Unnamed Road to River Trade Terminal	811771.2	825460.8	24.9	6.3	0.0	1.3	811726.5	825327.8	1
3	TM3_Lung Mun Road	811771.2	825460.8	15.9	8.1	0.0	3.1	811375.6	825635.2	1
4	TM5_Lung Mun Road	811375.6	825635.2	13.4	7.4	0.0	2.4	811234.7	825684.3	1
5	TM5_Lung Mun Road	811234.7	825684.3	13.4	7.1	0.0	2.1	811113.5	825689.6	1
6	TM5_Lung Mun Road	811113.5	825689.6	20.2	6.8	0.0	1.8	810874.4	825651.2	1
7	TM7_Siu Lang Shui Road	810950.8	825786.9	13.3	12.4	0.0	7.4	811051.3	825800.3	1
8	TM7_Siu Lang Shui Road	811051.3	825800.3	13.3	14.8	0.0	9.8	811207.6	825773.5	1
9	TM7_Siu Lang Shui Road	811207.6	825773.5	13.0	15.0	0.0	10.0	811364.5	825726.9	1
10	TM7_Siu Lang Shui Road	811364.5	825726.9	13.5	16.5	0.0	10.0	811513.4	825626.7	1
11	TM8_Unnamed Road to Cemetery	810950.8	825786.9	12.9	9.1	0.0	4.1	810916.5	825859.8	1
12	TM8_Unnamed Road to Cemetery	810916.5	825859.8	12.4	17.5	0.0	10.0	810946.0	826040.8	1
13	TM8_Unnamed Road to Cemetery	810946.0	826040.8	12.2	23.1	0.0	10.0	810936.0	826119.4	1
14	TM9_Siu Lang Shui Road	810867.0	825744.0	15.2	8.5	0.0	3.5	810950.8	825786.9	1
15	TM10_Lung Fat Street	810874.4	825651.2	22.1	7.7	0.0	2.7	810867.0	825744.0	1
16	TM11_Lung Mun Road	810874.4	825651.2	21.8	6.9	0.0	1.9	810666.1	825674.9	1
17	TM12_Unnamed Road to EcoPark	810874.4	825651.2	25.1	6.5	0.0	1.5	810873.2	825554.8	1
18	TM12_Unnamed Road to EcoPark	810873.2	825554.8	19.0	6.1	0.0	1.1	810675.0	825270.3	1
19	TM13_Lung Yiu Street	810666.1	825674.9	17.3	7.1	0.0	2.1	810638.7	825642.1	1
20	TM13_Lung Yiu Street	810638.7	825642.1	17.2	10.7	0.0	5.7	810593.1	825678.5	1
21	TM14_Lung Mun Road	810666.1	825674.9	15.3	16.8	0.0	10.0	810566.1	825736.7	1
22	TM15_Lung Yiu Street	810593.1	825678.5	14.7	16.8	0.0	10.0	810561.5	825711.1	1
23	TM16_Lung Hong Street	810593.1	825678.5	16.3	10.7	0.0	5.7	810555.7	825623.9	1
24	R1	811354.3	825595.5	14.0	5.0	0.0	0.0	811292.7	825567.5	1
25	R2	811292.7	825567.5	14.0	5.0	0.0	0.0	811181.4	825617.6	1
26	R3	811181.4	825617.6	14.0	5.0	0.0	0.0	811088.5	825610.3	1
27	R4	811088.5	825610.3	8.0	5.0	5.0	5.0	811103.7	825462.6	3
28	R5	811103.7	825462.6	14.0	5.0	10.0	10.0	811209.5	825399.6	1
29	R6	811209.5	825399.6	14.0	5.0	20.0	10.0	811114.9	825205.4	1
30	R7	811114.9	825205.4	14.0	5.0	20.0	10.0	811072.9	825119.0	1
31	R8	811051.5	825113.2	14.0	5.0	0.0	0.0	810953.7	824970.3	1
32	R9	811114.9	825205.4	14.0	5.0	30.0	10.0	811241.7	825169.2	1
34	R11	810984.8	825206.5	8.0	5.0	8.5	8.5	810900.7	825094.0	3
37	R14	810926.0	824929.8	14.0	5.0	0.0	0.0	810953.7	824970.3	1
38	R15	811090.1	824880.6	14.0	5.0	0.0	0.0	811061.6	824839.0	1
40	R17	810953.7	824970.3	14.0	5.0	0.0	0.0	811090.1	824880.6	1
41	R25	811178.6	824924.2	14.0	5.0	0.0	0.0	811208.2	824981.4	1
42	R26	811208.2	824981.4	14.0	5.0	0.0	0.0	811242.3	824963.7	1
43	R27	811242.3	824963.7	14.0	5.0	0.0	0.0	811353.5	825232.5	1
44	R28	811353.5	825232.5	14.0	5.0	0.0	0.0	811488.8	825559.8	1

**Note:**

(a) The lowest road elevation is 5m. All road heights were subtracted by 5m for input in the model such that the lowest road elevation is 0m. For road heights that were greater than 10m, they were inputted as 10m due to model limitation as a conservative assessment. The elevations of ASRs were subtracted by 5m as well for input in the model to ensure consistency.

(b) A 5m vertical barrier is proposed to be erected along the west side of R4 and R11. In order to model the effect of the presence of the physical barrier, the road height of R4 and R11 was increased by 5m assuming the emissions would be at the top of the barrier and that the road type is set to "fill". 6m mixing distance not included.

Annex A4

## Calculations of Land Use Parameters

## Annex A4 - Detailed Calculations of Albedo, Bowen Ratio and Surface Roughness

Land Cover	Area (km <sup>2</sup> )	Fraction of Total Area	Bowen Ratio (Bo)	Albedo (r)
Tree	21.1	0.21	0.67	0.12
Urban	10.7	0.11	1.67	0.16
Water	67.9	0.68	0.1	0.12
Fill Bank	0.3	0.003	1.5	0.20
<b>Average:</b>			<b>0.20</b>	<b>0.12</b>

### Notes:

(a) Bowen ratio was calculated based on the area-weighted geometric mean within 10km x 10km area from the Project Site. Considering the climate in Hong Kong covers dry and wet season throughout the year, bowen ratios for average moisture conditions have been adopted. With reference to Table 4-4 of the User's Guide for the AERMOD Meteorological Preprocessor (AERMET) (AERMET User Guide), the bowen ratio for tree (deciduous forest), urban and water areas were assumed to be 0.67, 1.67 and 0.1, respectively. Fill bank area is regarded as Class 32-Quarries/Strip Mines/Gravel and its bowen ratio was assumed to be 1.5 with reference to Table A-2 of the AERSURFACE User's Guide.

(b) Albedo was calculated based on the area-weighted arithmetic mean within 10km x 10km area from the Project Site. With reference to Table 4-2 of the AERMET User Guide, the albedo for tree (deciduous forest), urban and water areas were assumed to be 0.12, 0.16 and 0.12, respectively. Fill bank area is regarded as Class 32-Quarries/Strip Mines/Gravel and its albedo was assumed to be 0.2 with reference to Table A-1 of the AERSURFACE User's Guide.

(c) The average of the albedo and bowen ratio values in spring, summer and autumn for each land use was used.

## Annex A4 - Detailed Calculations of Albedo, Bowen Ratio and Surface Roughness

PATH Grid 15\_38

Sector (degree)	Land Cover	Area (km2)	Fraction of Total Area	Distance (km)	Weighting	Zo (m)	Resultant Zo (m) for each sector
65 - 135	Fill Bank	0.24	0.39	0.46	0.84	0.3	0.52
	Urban	0.37	0.61	0.86	0.72	1	
135 - 300	Urban	0.10	0.07	0.07	1.10	1	0.004
	Water	1.34	0.93	0.59	1.57	0.0001	
300 - 340	Urban	0.35				1	1.00
340 - 65	Urban	0.19	0.26	0.20	1.30	1	0.80
	Tree	0.55	0.74	0.72	1.03	0.6	

PATH Grid 15\_39

Sector (degree)	Land Cover	Area (km2)	Fraction of Total Area	Distance (km)	Weighting	Zo (m)	Resultant Zo (m) for each sector
80 - 155	Fill Bank	0.19	0.29	0.39	0.74	0.3	0.57
	Urban	0.46	0.71	0.86	0.83	1	
155 - 280	Urban	0.38	0.35	0.20	1.76	1	0.04
	Water	0.71	0.65	0.66	0.99	0.0001	
280 - 325	Urban	0.39				1	1.00
325 - 80	Tree	1.00				0.6	0.60

PATH Grid 16\_39

Sector (degree)	Land Cover	Area (km2)	Fraction of Total Area	Distance (km)	Weighting	Zo (m)	Resultant Zo (m) for each sector
115 - 190	Urban	0.65				1	1.00
190 - 230	Fill Bank	0.35				0.3	0.30
230 - 285	Urban	0.48				1	1.00
285 - 115	Tree	1.66				0.6	0.60



## Annex A4 - Detailed Calculations of Albedo, Bowen Ratio and Surface Roughness

PATH Grid	Sector	Land Use Type	Albedo (r)	Bowen Ratio (Bo)	Surface Roughness (Zo)	Remark
15_38	65 - 135	Fill Bank / Urban	0.12	0.20	0.52	This sector is comprised of both fill bank and urban areas. Fill bank area covers 39% and the distance from the centre of ASRs of the PATH grid is about 0.46km. Urban area covers 61% and the distance from the centre of ASRs of the PATH grid is about 0.86km.
	135 - 300	Urban / Water	0.12	0.20	0.004	This sector is comprised of both urban and water areas. Urban area covers 7% and the distance from the centre of ASRs of the PATH grid is about 0.07km. Water area covers 93% and the distance from the centre of ASRs of the PATH grid is about 0.59km.
	300 - 340	Urban	0.12	0.20	1.00	This sector is comprised of urban area.
	340 - 65	Urban / Tree	0.12	0.20	0.80	This sector is comprised of both urban and tree areas. Urban area covers 26% and the distance from the centre of ASRs of the PATH grid is about 0.20km. Tree area covers 74% and the distance from the centre of ASRs of the PATH grid is about 0.72km.
15_39	80 - 155	Fill Bank / Urban	0.12	0.20	0.57	This sector is comprised of both fill bank and urban areas. Fill bank area covers 29% and the distance from the centre of ASRs of the PATH grid is about 0.39km. Urban area covers 71% and the distance from the centre of ASRs of the PATH grid is about 0.86km.
	155 - 280	Urban / Water	0.12	0.20	0.04	This sector is comprised of both urban and water areas. Urban area covers 35% and the distance from the centre of ASRs of the PATH grid is about 0.20km. Water area covers 65% and the distance from the centre of ASRs of the PATH grid is about 0.66km.
	280 - 325	Urban	0.12	0.20	1.00	This sector is comprised of urban area.
	325 - 80	Tree	0.12	0.20	0.60	This sector is comprised of tree area.
16_39	115 - 190	Urban	0.12	0.20	1.00	This sector is comprised of urban area.
	190 - 230	Fill Bank	0.12	0.20	0.30	This sector is comprised of fill bank area.
	230 - 285	Urban	0.12	0.20	1.00	This sector is comprised of urban area.
	285 - 115	Tree	0.12	0.20	0.60	This sector is comprised of tree area.

### Note:

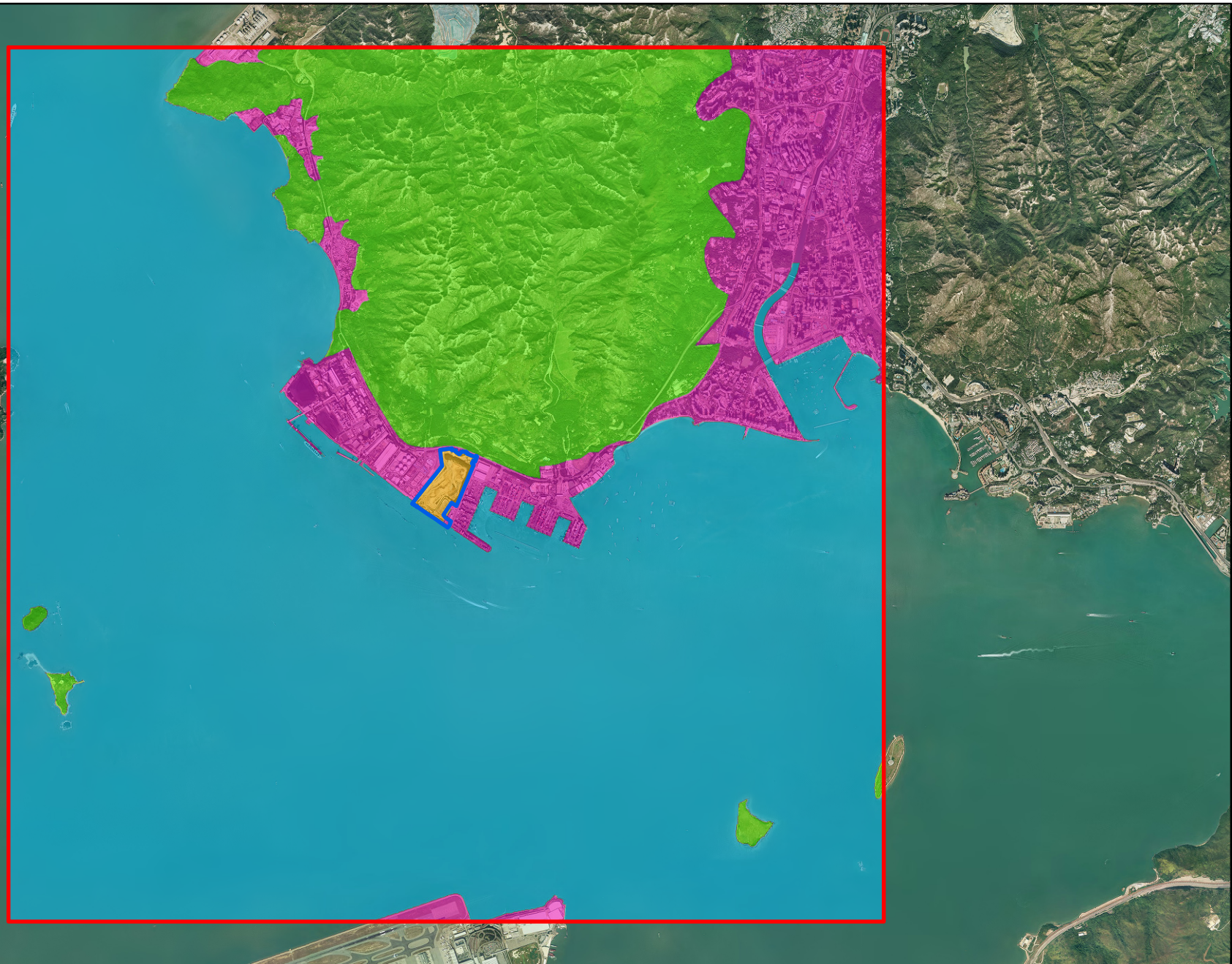
(a) With reference to Table 4-6 of the AERMET User's Guide, the surface roughness value for urban area and water area is assumed to be 1m and 0.0001m, respectively. With reference to Table A-3 of the AERSURFACE User's Guide, the surface roughness value for fill bank area is assumed to be 0.3m. The height of trees within 1 km from the identified ASRs near TKOFB is about 6m on average. The surface roughness can be estimated as about 10% of the average height of physical structures. Therefore, the surface roughness of 0.6m has been adopted for trees. For sector consisting of 2 or more different land use types, the surface roughness length for the sector is calculated based on the inverse-distance weighted geometric mean.

**Legend**

-  TMFB
-  10km x 10km area from TMFB Site Boundary

**Landuse**

-  Fill bank
-  Tree
-  Urban
-  Water



Kilometres



Annex A4

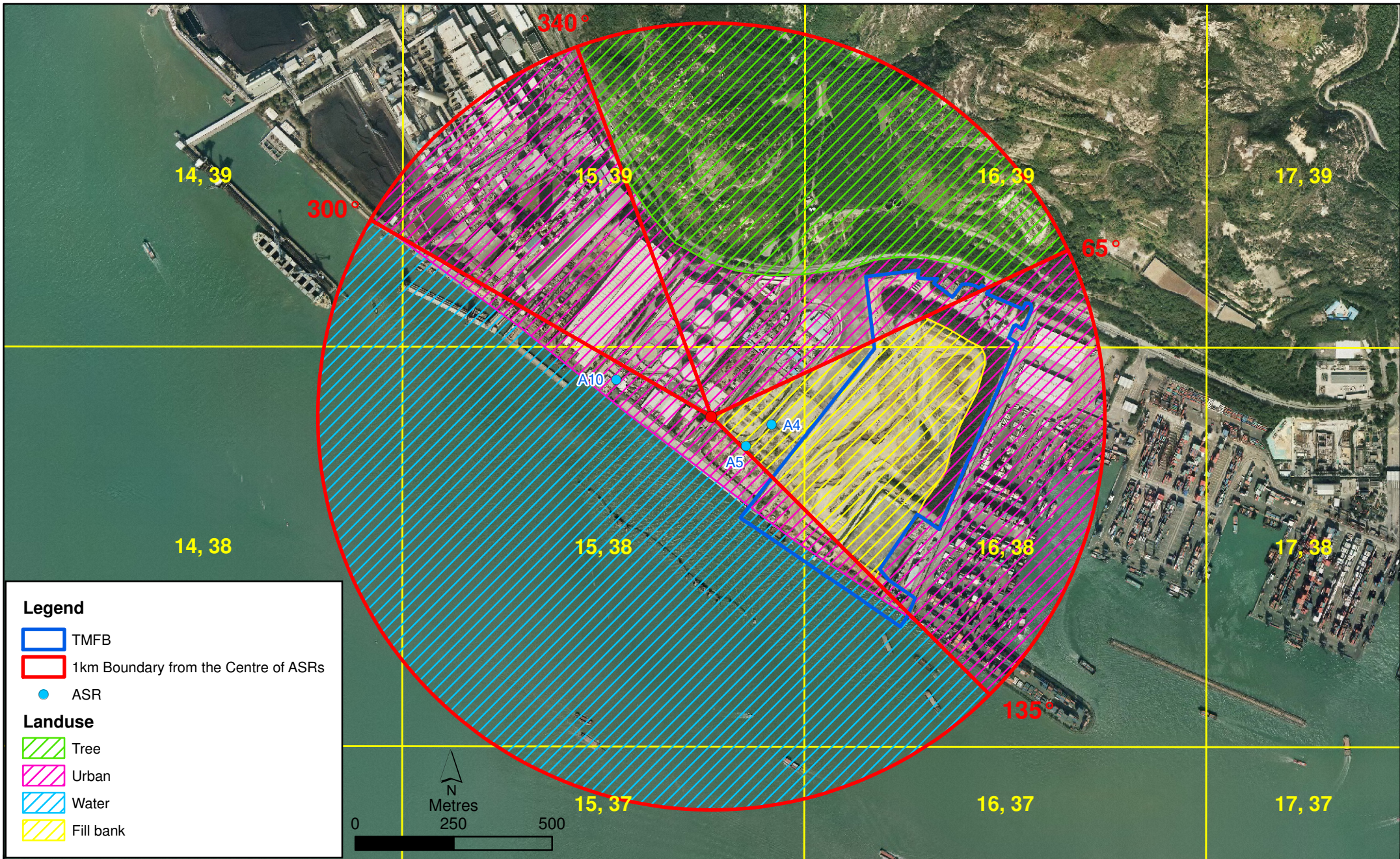
10km x 10km Area from TMFB Site Boundary

File: T:\GIS\CONTRACT\0414816\mxd\0414816\_TMFB\_10km\_Area.mxd  
Date: 16/7/2018

**Environmental  
Resources  
Management**







**Legend**

- TMFB
- 1km Boundary from the Centre of ASRs
- ASR

**Landuse**

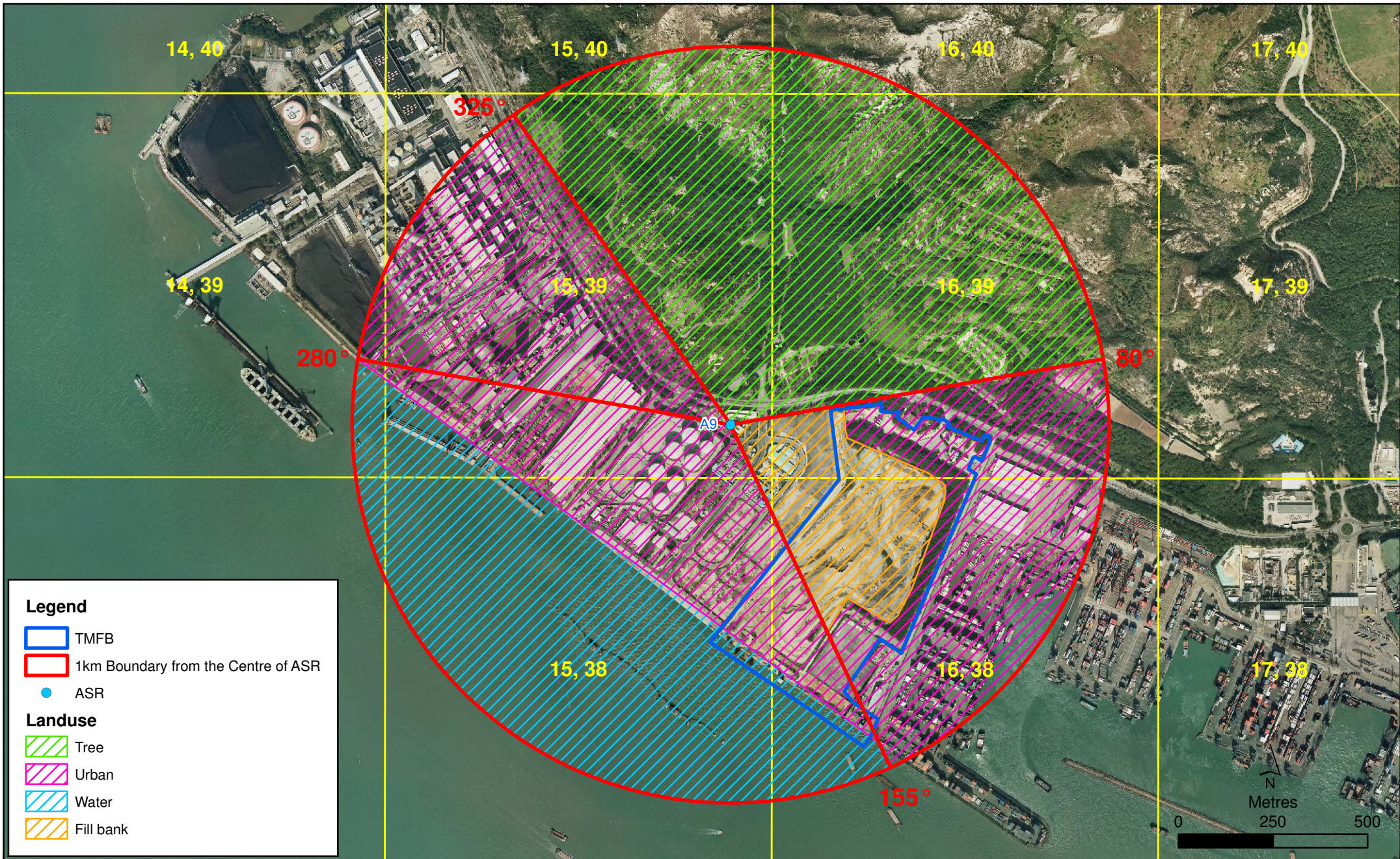
- Tree
- Urban
- Water
- Fill bank

Annex A4

Sectors of Land Use for PATH Grid 15,38

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Date: 17/7/2018





**Legend**

- TMFB
- 1km Boundary from the Centre of ASR
- ASR

**Landuse**

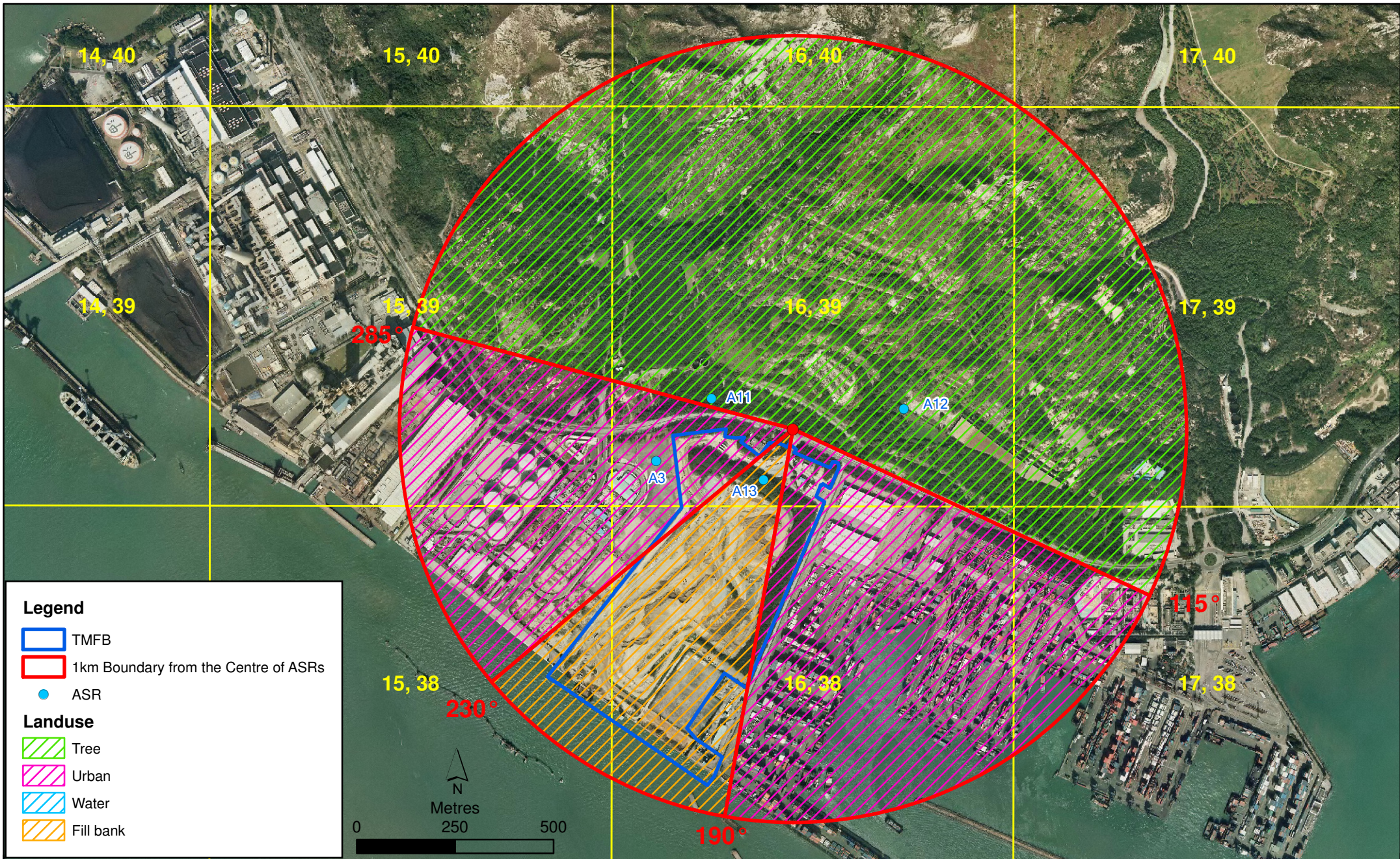
- Tree
- Urban
- Water
- Fill bank

Annex A4

Sectors of Land Use for PATH Grid 15,39

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Date: 17/7/2018





**Legend**

- TMFB
- 1km Boundary from the Centre of ASRs
- ASR

**Landuse**

- Tree
- Urban
- Water
- Fill bank

Annex A4

Sectors of Land Use for PATH Grid 16,39

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Date: 20/7/2018

Environmental Resources Management





Annex A5

# Predicted Cumulative Pollutant Concentrations at ASRs

**Annex A5 - Predicted Cumulative Pollutant Concentrations at ASRs**

**Case 1**

ASR	ASR Description	x	y	TSP				RSP								FSP							
				Cumulative Maximum Hourly Averaged TSP ( $\mu\text{gm}^{-3}$ )				Cumulative 10th Highest Daily Averaged RSP ( $\mu\text{gm}^{-3}$ )				Cumulative Annual Averaged RSP ( $\mu\text{gm}^{-3}$ )				Cumulative 10th Highest Daily Averaged FSP ( $\mu\text{gm}^{-3}$ )				Cumulative Annual Averaged FSP ( $\mu\text{gm}^{-3}$ )			
				Receptor height (m above ground)				Receptor height (m above ground)				Receptor height (m above ground)				Receptor height (m above ground)				Receptor height (m above ground)			
				1.5	4.5	7.5	10	1.5	4.5	7.5	10	1.5	4.5	7.5	10	1.5	4.5	7.5	10	1.5	4.5	7.5	10
A3	Eco Park Tenant: WEEE	811013	825570	348.97	368.04			86.85	86.77			39.00	38.87			65.35	65.28			27.41	27.32		
A4	Eco Park Tenant: South China	810816	825258	364.05	328.91			94.51	95.15			43.56	44.13			69.77	70.21			30.55	30.59		
A5	Eco Park Tenant: Chung Yue	810751	825204	451.28	418.24			92.83	92.81			43.22	43.69			68.46	68.36			29.69	29.65		
A9	Eco Park Administration Building	810791	825596	202.31	202.28			84.84	84.77			37.80	37.78			63.38	63.33			26.77	26.82		
A10	PAFF Office	810422	825373	203.61	203.55			90.71	90.24			41.00	40.96			68.23	68.15			29.52	29.50		
A11	Proposed Modern Logistics Development at TM Area 49 (Indicative Location)	811154	825728	315.01	263.58	207.50	204.70	86.13	86.09	85.97	85.89	37.57	37.49	37.42	37.37	64.66	64.64	64.63	64.62	26.65	26.60	26.56	26.53
<b>AQO Criterion</b>				<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>75</b>	<b>75</b>	<b>75</b>	<b>75</b>	<b>35</b>	<b>35</b>	<b>35</b>	<b>35</b>

**Case 2**

ASR	ASR Description	x	y	TSP				RSP								FSP							
				Cumulative Maximum Hourly Averaged TSP ( $\mu\text{gm}^{-3}$ )				Cumulative 10th Highest Daily Averaged RSP ( $\mu\text{gm}^{-3}$ )				Cumulative Annual Averaged RSP ( $\mu\text{gm}^{-3}$ )				Cumulative 10th Highest Daily Averaged FSP ( $\mu\text{gm}^{-3}$ )				Cumulative Annual Averaged FSP ( $\mu\text{gm}^{-3}$ )			
				Receptor height (m above ground)				Receptor height (m above ground)				Receptor height (m above ground)				Receptor height (m above ground)				Receptor height (m above ground)			
				1.5	4.5	7.5	10	1.5	4.5	7.5	10	1.5	4.5	7.5	10	1.5	4.5	7.5	10	1.5	4.5	7.5	10
A3	Eco Park Tenant: WEEE	811013	825570	348.97	368.04			86.78	86.71			38.76	38.64			65.28	65.22			27.17	27.09		
A4	Eco Park Tenant: South China	810816	825258	364.05	328.91			94.61	95.01			43.51	44.09			69.88	70.31			30.49	30.55		
A5	Eco Park Tenant: Chung Yue	810751	825204	451.28	418.24			92.99	93.29			43.28	43.76			68.42	68.30			29.75	29.72		
A9	Eco Park Administration Building	810791	825596	202.31	202.28			84.75	84.58			37.94	37.90			63.29	63.31			26.91	26.93		
A10	PAFF Office	810422	825373	203.61	203.55			90.64	90.18			41.29	41.30			68.15	68.10			29.81	29.83		
A11	Proposed Modern Logistics Development at TM Area 49 (Indicative Location)	811154	825728	315.01	263.58	207.50	204.70	86.04	85.87	85.74	85.67	37.46	37.38	37.32	37.26	64.64	64.61	64.54	64.49	26.54	26.49	26.45	26.43
<b>AQO Criterion</b>				<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>75</b>	<b>75</b>	<b>75</b>	<b>75</b>	<b>35</b>	<b>35</b>	<b>35</b>	<b>35</b>

**Case 3**

ASR	ASR Description	x	y	TSP				RSP								FSP							
				Cumulative Maximum Hourly Averaged TSP ( $\mu\text{gm}^{-3}$ )				Cumulative 10th Highest Daily Averaged RSP ( $\mu\text{gm}^{-3}$ )				Cumulative Annual Averaged RSP ( $\mu\text{gm}^{-3}$ )				Cumulative 10th Highest Daily Averaged FSP ( $\mu\text{gm}^{-3}$ )				Cumulative Annual Averaged FSP ( $\mu\text{gm}^{-3}$ )			
				Receptor height (m above ground)				Receptor height (m above ground)				Receptor height (m above ground)				Receptor height (m above ground)				Receptor height (m above ground)			
				1.5	4.5	7.5	10	1.5	4.5	7.5	10	1.5	4.5	7.5	10	1.5	4.5	7.5	10	1.5	4.5	7.5	10
A3	Eco Park Tenant: WEEE	811013	825570	348.97	368.04			86.77	86.70			38.71	38.60			65.27	65.21			27.12	27.04		
A4	Eco Park Tenant: South China	810816	825258	364.05	328.91			94.36	94.93			43.34	43.92			69.63	70.07			30.32	30.39		
A5	Eco Park Tenant: Chung Yue	810751	825204	451.28	418.24			92.96	92.80			43.08	43.56			68.40	68.28			29.55	29.52		
A9	Eco Park Administration Building	810791	825596	202.31	202.28			84.73	84.56			37.76	37.72			63.27	63.30			26.74	26.76		
A10	PAFF Office	810422	825373	203.61	203.55			90.61	90.15			40.81	40.78			68.09	68.06			29.33	29.32		
A11	Proposed Modern Logistics Development at TM Area 49 (Indicative Location)	811154	825728	315.01	263.58	207.50	204.70	86.04	85.87	85.74	85.66	37.44	37.36	37.29	37.24	64.63	64.61	64.54	64.49	26.52	26.47	26.43	26.40
<b>AQO Criterion</b>				<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>75</b>	<b>75</b>	<b>75</b>	<b>75</b>	<b>35</b>	<b>35</b>	<b>35</b>	<b>35</b>

## Annex A5 - Predicted Cumulative Pollutant Concentrations at ASRs

### Case 1

				NO <sub>2</sub>							
				Cumulative 19th Highest Hourly Averaged NO <sub>2</sub> (µgm <sup>-3</sup> )				Cumulative Annual Averaged NO <sub>2</sub> (µgm <sup>-3</sup> )			
				Receptor height (m above ground)				Receptor height (m above ground)			
ASR	ASR Description	x	y	1.5	4.5	7.5	10	1.5	4.5	7.5	10
A3	Eco Park Tenant: WEEE	811013	825570	152.55	152.83			37.77	37.45		
A4	Eco Park Tenant: South China	810816	825258	144.95	145.05			38.24	37.98		
A5	Eco Park Tenant: Chung Yue	810751	825204	145.28	146.95			38.84	38.55		
A9	Eco Park Administration Building	810791	825596	140.83	140.54			36.21	35.74		
A10	PAFF Office	810422	825373	141.66	138.95			37.42	37.20		
A11	Proposed Modern Logistics Development at TM Area 49 (Indicative Location)	811154	825728	155.35	155.30	150.54	149.96	38.73	37.62	36.54	35.76
<b>AQO Criterion</b>				<b>200</b>	<b>200</b>	<b>200</b>	<b>200</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>

### Case 2

				NO <sub>2</sub>							
				Cumulative 19th Highest Hourly Averaged NO <sub>2</sub> (µgm <sup>-3</sup> )				Cumulative Annual Averaged NO <sub>2</sub> (µgm <sup>-3</sup> )			
				Receptor height (m above ground)				Receptor height (m above ground)			
ASR	ASR Description	x	y	1.5	4.5	7.5	10	1.5	4.5	7.5	10
A3	Eco Park Tenant: WEEE	811013	825570	152.55	152.83			37.77	37.45		
A4	Eco Park Tenant: South China	810816	825258	144.95	145.05			38.24	37.98		
A5	Eco Park Tenant: Chung Yue	810751	825204	145.28	146.95			38.84	38.55		
A9	Eco Park Administration Building	810791	825596	140.83	140.54			36.21	35.74		
A10	PAFF Office	810422	825373	141.66	138.95			37.42	37.20		
A11	Proposed Modern Logistics Development at TM Area 49 (Indicative Location)	811154	825728	155.35	155.30	150.54	149.96	38.73	37.62	36.54	35.76
<b>AQO Criterion</b>				<b>200</b>	<b>200</b>	<b>200</b>	<b>200</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>

### Case 3

				NO <sub>2</sub>							
				Cumulative 19th Highest Hourly Averaged NO <sub>2</sub> (µgm <sup>-3</sup> )				Cumulative Annual Averaged NO <sub>2</sub> (µgm <sup>-3</sup> )			
				Receptor height (m above ground)				Receptor height (m above ground)			
ASR	ASR Description	x	y	1.5	4.5	7.5	10	1.5	4.5	7.5	10
A3	Eco Park Tenant: WEEE	811013	825570	152.56	152.83			38.10	37.78		
A4	Eco Park Tenant: South China	810816	825258	146.22	145.23			38.90	38.62		
A5	Eco Park Tenant: Chung Yue	810751	825204	148.05	149.57			39.57	39.28		
A9	Eco Park Administration Building	810791	825596	140.87	140.73			36.98	36.50		
A10	PAFF Office	810422	825373	141.66	138.95			37.48	37.28		
A11	Proposed Modern Logistics Development at TM Area 49 (Indicative Location)	811154	825728	155.35	155.30	150.60	150.01	38.95	37.84	36.76	35.97
<b>AQO Criterion</b>				<b>200</b>	<b>200</b>	<b>200</b>	<b>200</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>

## Annex A5 - Predicted Cumulative Pollutant Concentrations at ASRs

### Case 1

				SO <sub>2</sub>							
				Cumulative 4th Highest 10-minute Averaged SO <sub>2</sub> (µgm <sup>-3</sup> )				Cumulative 4th Highest Daily Averaged SO <sub>2</sub> (µgm <sup>-3</sup> )			
				Receptor height (m above ground)				Receptor height (m above ground)			
ASR	ASR Description	x	y	1.5	4.5	7.5	10	1.5	4.5	7.5	10
A3	Eco Park Tenant: WEEE	811013	825570	199.39	199.16			37.00	37.00		
A4	Eco Park Tenant: South China	810816	825258	222.88	223.02			40.61	40.61		
A5	Eco Park Tenant: Chung Yue	810751	825204	220.09	220.20			40.48	40.48		
A9	Eco Park Administration Building	810791	825596	206.32	206.44			37.21	37.21		
A10	PAFF Office	810422	825373	208.41	208.35			40.44	40.43		
A11	Proposed Modern Logistics Development at TM Area 49 (Indicative Location)	811154	825728	186.80	186.63	186.49	186.41	36.99	36.99	36.99	36.99
<b>AQO Criterion</b>				<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>

### Case 2

				SO <sub>2</sub>							
				Cumulative 4th Highest 10-minute Averaged SO <sub>2</sub> (µgm <sup>-3</sup> )				Cumulative 4th Highest Daily Averaged SO <sub>2</sub> (µgm <sup>-3</sup> )			
				Receptor height (m above ground)				Receptor height (m above ground)			
ASR	ASR Description	x	y	1.5	4.5	7.5	10	1.5	4.5	7.5	10
A3	Eco Park Tenant: WEEE	811013	825570	199.39	199.16			37.00	37.00		
A4	Eco Park Tenant: South China	810816	825258	222.88	223.02			40.61	40.61		
A5	Eco Park Tenant: Chung Yue	810751	825204	220.09	220.20			40.48	40.48		
A9	Eco Park Administration Building	810791	825596	206.32	206.44			37.21	37.21		
A10	PAFF Office	810422	825373	208.41	208.35			40.44	40.43		
A11	Proposed Modern Logistics Development at TM Area 49 (Indicative Location)	811154	825728	186.80	186.63	186.49	186.41	36.99	36.99	36.99	36.99
<b>AQO Criterion</b>				<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>

### Case 3

				SO <sub>2</sub>							
				Cumulative 4th Highest 10-minute Averaged SO <sub>2</sub> (µgm <sup>-3</sup> )				Cumulative 4th Highest Daily Averaged SO <sub>2</sub> (µgm <sup>-3</sup> )			
				Receptor height (m above ground)				Receptor height (m above ground)			
ASR	ASR Description	x	y	1.5	4.5	7.5	10	1.5	4.5	7.5	10
A3	Eco Park Tenant: WEEE	811013	825570	200.05	199.72			37.03	37.02		
A4	Eco Park Tenant: South China	810816	825258	228.23	227.67			42.50	42.55		
A5	Eco Park Tenant: Chung Yue	810751	825204	246.83	247.83			42.14	42.19		
A9	Eco Park Administration Building	810791	825596	207.09	207.16			37.72	37.71		
A10	PAFF Office	810422	825373	208.41	208.35			40.54	40.53		
A11	Proposed Modern Logistics Development at TM Area 49 (Indicative Location)	811154	825728	186.92	186.74	186.60	186.51	37.00	37.00	37.00	37.00
<b>AQO Criterion</b>				<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>

Annex A6

## Letter from Transport Department

By Fax  
(Fax No.: 3020 0321)



本署檔案 Our Ref. : (N8NR3) in TD NR182/203-28  
來函檔號 Your Ref. : 30717-0005  
電話 Tel. : 2399 2261  
圖文傳真 Fax : 2381 3799  
電 郵 Email :

20 July 2018

AXON Consultancy Limited  
Unit 503, 5/F, Tower 2,  
Lippo Centre, Admiralty, Hong Kong  
(Attn.: Mr. Sam FUNG)

Dear Mr. FUNG,

**Agreement No. FM 01/2017 Environmental Review and Traffic Impact Assessment for  
Extension of Operation of Fill Banks at Tseung Kwan O Area 137  
and Tuen Mun Area 38 – Investigation**

**Traffic Forecast in Years 2019 and 2023 for the Air Quality Impact Assessment**

I refer to your letter under reference dated 11 July 2018 regarding the caption.

Please note that the Air Quality Impact Assessment is not under our purview. We are not in a position to provide comments on the traffic figures tailor-made for the environmental assessment purposes.

Notwithstanding the above, please note that we would have no objection in principle to the methodology for traffic forecast if it is the same as that adopted in the traffic impact assessment for the captioned project.

Yours faithfully,

(Janet H.Y. CHING)  
for Commissioner for Transport

c.c. CE/FM, CEDD

(Attn: Ms. Norelle Y.H. LI)

- Fax No. 2714 0113

新界分區辦事處  
NT Regional Office  
九龍聯運街三十號旺角政府合署七樓  
7th Floor, Mong Kok Government Offices, 30 Luen Wan Street, Kowloon.  
圖文傳真 Fax No.: 2381 3799 (新界區) (NTRO)  
網址 Web Site: <http://www.td.gov.hk>