

FORM 5

ENVIRONMENTAL IMPACT ASSESSMENT ORDINANCE
(CHAPTER 499)
SECTION 13(1)

Application for Variation of an Environmental Permit

PART A PREVIOUS APPLICATIONS

- No previous application for variation of an environmental permit.
- The environmental permit was previously amended.

Application No. : VEP-395/2013

PART B DETAILS OF APPLICANT

B1. Name : (person or company)

Civil Engineering and Development Department

[Note : In accordance with section 13(1) of the Ordinance, the person holding an environmental permit or a person who assumes responsibility for the designated project may apply for variation of the environmental permit.]

B2. Business Registration No. :

(if applicable)

B3. Correspondence Address :

B4. Name of Contact Person :

B5. Position of Contact Person :

B6. Telephone No. :

B7. Fax No. :

B8. E-mail Address : (if any)

PART C DETAILS OF CURRENT ENVIRONMENTAL PERMIT

C1. Name of the Current Environmental Permit Holder :

Civil Engineering and Development Department

C2. Application No. of the Current Environmental Permit : VEP-395/2013 (EP-210/2005/B)

C3. The Current Environmental Permit was Issued in : month / year

04 / 2013

Important Notes : Please submit the application together with

(a) 3 copies of this completed form; and

(b) appropriate fee as stipulated in the Environmental Impact Assessment (Fees) Regulation

to the Environmental Protection Department at the following address :

The EIA Ordinance Register Office,
27th floor, Southorn Centre, 130 Hennessy Road,
Wan Chai, Hong Kong.

 Tick (✓) the appropriate box

D1 Condition(s) in the Current Environmental Permit	D2 Proposed Variation(s)	D3 Reasons for Variation(s)	D4 Describe the environmental changes arising from the proposed variation(s) :	D5 Describe how the environment and the community might be affected by the proposed variation(s)	D6 Describe how and to what extent the environmental performance requirements set out in the EIA report previously approved or project profile previously submitted for this project may be affected :	D7 Describe any additional measures proposed to eliminate, reduce or control any adverse environmental impact arising from the proposed variation(s) and to meet the requirements in the Technical Memorandum on Environmental Impact Assessment Process :
Part B (Descriptions of Designated Project) Scale and Scope of Designated Project	To add "5. Construction and Operation of a Construction Demolition Materials Sorting Facility (C&DMSF)"	There is will be a C&DMSF of handling capacity of approximately 10,400 tonnes /day to operate from 0700 to 2300 hrs as compared with previous operation.	Based on the assessment as stated in the Section 3, 4 & 5 of the Environmental Review Report, potential air quality impact, noise impact, water quality impact, landscape and visual and landfill gas hazard are considered insignificant. (applicable for other proposed variations below)	Based on the assessment as stated in the Section 3, 4 & 5 of the Environmental Review Report, potential air quality impact, noise impact, water quality impact, landscape and visual and landfill gas hazard are considered insignificant. (applicable for other proposed variations below)	Please refer to Sections 3, 4 & 5 of the Environmental Review Report. All predicted environmental impacts are within the relevant environmental standards set out in the Project Profile (DIR-113/2005) and the Technical Memorandum on EIA Process. (applicable for other proposed variations below)	<u>Air Quality</u> The mitigation measures are described in Section 3 of the Environmental Review Report. To minimise the potential air quality impacts due to vehicular emissions from internal trucks of TMFB and the C&DMSF to the nearby ASRs, the following additional measures are proposed; a) The haul road, R11 serving the C&DMSF shall be no less than 75m away from the western boundary of the project to reduce potential air quality impact to EcoPark. b) A vertical barrier of 5 m high shall be erected along the west side of the haul road R11 to reduce potential air quality impact to EcoPark. c) The sorted material from the C&DMSF shall be delivered to barging point B3 via an enclosed conveyor belt system to avoid material delivery by trucks. d) The internal trucks used for material handling within the project area shall be at least of Euro V emission standard. e) The C&DMSF and its associated enclosed conveyor belt system with CLP power supply to avoid emissions from diesel generators. No additional measures are required for noise, water quality, landscape and visual impacts, and landfill gas hazard.

PART D

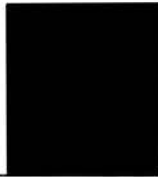
D1, D2 and D3

Item	D1 Condition(s) in the current Environmental Permit	D2 Proposed Variation(s)	D3 Reasons for Variation(s)
1.	<p>Condition 1.7 "The Permit Holder shall ensure that the Project is designed, constructed and operated (including stockpile and removal of public fill material) in accordance with the information and recommendations described in the Project Profile (Register No. PP-236/2005), the application documents for variation of an environmental permit (Application Nos. VEP-277/2008 and VEP-395/2013), other relevant documents in the Register, the information and mitigation measures described in this Permit, mitigation measures to be recommended in submissions that shall be deposited with or approved by the Director as a result of permit conditions contained in this Permit, and mitigation measures to be recommended under on-going surveillance and monitoring activities during all stages of the Project. Where recommendations referred to in the documents of the Register are not expressly referred to in this Permit, such recommendations are nevertheless to be implemented unless expressly excluded or impliedly amended in this Permit."</p>	<p>Condition 1.7 "The Permit Holder shall ensure that the Project is designed, constructed and operated (including stockpile and removal of public fill material) in accordance with the information and recommendations described in the Project Profile (Register No. PP-236/2005), the application documents for variation of an environmental permit (Application Nos. VEP-277/2008, VEP-395/2013 and VEP-XXXX [to be inserted by EPD]), other relevant documents in the Register, the information and mitigation measures described in this Permit, mitigation measures to be recommended in submissions that shall be deposited with or approved by the Director as a result of permit conditions contained in this Permit, and mitigation measures to be recommended under on-going surveillance and monitoring activities during all stages of the Project. Where recommendations referred to in the documents of the Register are not expressly referred to in this Permit, such recommendations are nevertheless to be implemented unless expressly excluded or impliedly amended in this Permit."</p>	To cover the application documents for this proposed VEP-
2.	<p>Condition 3.5 "Haul roads for entering and leaving the site shall be watered every 2 hours so as to maintain the entire road surface wet during operation of the project."</p>	<p>Condition 3.5 "Haul roads for entering and leaving the site shall be watered every hour so as to maintain the entire road surface wet during operation of the project."</p>	To strengthen this dust control mitigation measures.
3.	<p>Condition 3.15 "Pathway of loading and unloading of public fill to and from barges shall not be directly on top of the marine water as to prevent the dropping of material into the sea."</p>	<p>Condition 3.15 "No material shall be dropped into the sea in the course of loading and unloading of public fill to and from barges."</p>	To improve the clarity of this condition.
4.	<p>Condition 3.21 "The Project shall be fully decommissioned by 31 December 2018"</p>	<p>Condition 3.21 "The Project shall be fully decommissioned by 31 December 2023"</p>	Extension of public fill bank operation at Tuen Mun Area 38 up to 2023 in order to meet current envisaged need for temporary stockpiling public fill generated from construction industry.
5.	Figures 1, 2, 3 and 4	<p>Figures 1, 2, 3 and 4 of the General Conditions Site boundary of Tuen Mun Fill Bank revised (refer to Figures D1, D2, D3 and D4 respectively of Annex D of the Environmental Review Report)</p> <p>Figure 1 of the General Conditions Revised with Site boundary of the Tuen Mun Fill Bank</p>	To reflect the latest TMFB site boundary of the current TGLA application.
6.	NA	<p>Addition of Condition 3.23 "Any person/contractor/organisation, who is allowed by the Permit Holder to erect and operate (hereinafter called "operator") Sorting Facility for Public Fill (hereinafter called "C&DMSF") in the area as shown in Figure 1 of this Permit, is deemed to be "any person working on the Project" referred to in Condition 1.1 above and shall comply with all conditions set out in this Permit. If the proposed operation of any additional sorting facility deviates from the information and recommendations described in the documents referred to in Condition 1.7 above, the operator shall make additional submission to the Director for approval, at least one month before its proposed operation. The submission shall include, inter alia, the changes involved, an environment impacts resulting from such changes and proposed mitigation measures, if any. Any non-compliance with the submissions approved by the Director may</p>	Given that the proposed sorting facility is designed, erected and operated by persons or companies other than the Permit Holder, it is necessary to ensure that they shall comply with the EP and shall bear the consequences arising out of their breaches of EP conditions.

		if any. Any non-compliance with the submissions approved by the Director may constitute a contravention of the Environmental Impact Assessment Ordinance (Cap. 499). For the avoidance of doubt, notwithstanding Condition 1.9 above, all submissions or any variation of the submissions required under this Condition are not required to be checked by the Environmental Team (ET) Leader and verified by the Independent Environmental Checker (IEC) referred to in Conditions 2.1 and 2.2 above, before submitting to the Director under this Permit.”	
7.	N/A	<p>Addition of Condition 3.24</p> <p><u>Operation of the Construction Demolition Materials Sorting Facility (C&DMSF)</u></p> <p>a) The haul road, R11 serving the C&DMSF shall be no less than 75m away from the western boundary of the project to reduce potential air quality impact to EcoPark.</p> <p>b) A vertical barrier of 5 m high shall be erected along the west side of the haul road R11 to reduce potential air quality impact to EcoPark.</p> <p>c) The sorted material from the C&DMSF shall be delivered to barging point B3 via an enclosed conveyor belt system to avoid material delivery by trucks.</p> <p>d) The internal trucks used for material handling within the project area shall be at least of Euro V emission standard.</p> <p>e) The C&DMSF and its associated enclosed conveyor belt system with CLP power supply to avoid emissions from diesel generators from July 2019.</p>	
8.	N/A	<p>Addition of Condition 3.25</p> <p><u>Review of the Operation of the Construction Demolition Materials Sorting Facility (C&DMSF)</u></p> <p>If operation with CLP power supply could not be completed before 30 June 2019, the Permit Holder shall notify the Director at least 2 months in writing with an air quality assessment including recommendations for mitigation measures, improvement works and other measures and works within the lot shall be submitted for his approval. In addition, from June 2019 to expiry of this Permit, an air quality assessment shall be conducted to review the operational conditions of the project every 12 months or such other extended period as may be approved by the Director.</p>	
9.	Condition 4, Figures 5 and 6	Proposed to delete	The planned holiday camp is no longer valid as confirmed by Planning Department and Lands Department.

PART E DECLARATION BY APPLICANT

E1. I hereby certify that the particulars given above are correct and true to the best of my knowledge and belief. I understand the environmental permit may be suspended, varied or cancelled if any information given above is false, misleading, wrong or incomplete.



Signature of Applicant



Full Name in Block Letters



Position



on behalf of Civil Engineering and Development Department 8 August 2018
Company Name and Chop (as appropriate) Date

NOTES :

1. A person who constructs or operates a designated project in Part I of Schedule 2 of the Ordinance or decommissions a designated project listed in Part II of Schedule 2 of the Ordinance without an environmental permit or contrary to the permit conditions commits an offence under the Ordinance and is liable to a maximum fine of \$5,000,000 and to a maximum imprisonment for 2 years.
2. A person for whom a designated project is constructed, operated or decommissioned and who permits the carrying out of the designated project in contravention of the Ordinance commits an offence and is liable to a maximum fine of \$5,000,000 and to a maximum imprisonment for 2 years.

* EIAO *
COPY

Environmental Review Report for Tuen Mun Fill Bank



Civil Engineering and
Development Department

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

30 August 2018

ERM
2507, 25/F One Harbourfront
18 Tak Fung Street, Hunghom
Kowloon, Hong Kong
Telephone 2271 3000
Facsimile 2723 5660



ERM

The business of sustainability

www.erm.com


VER-545/2018
Total: 1
30.8.2018

Civil Engineering and Development
Department

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:
*Environmental Review Report for
Tuen Mun Fill Bank*

August 2018

Reference 0414816

For and on behalf of Environmental Resources Management	
Approved by:	Frank Wan
Signed:	
Position:	Partner
Date:	30 August 2018

This report has been prepared by ERM-Hong Kong, Limited with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.

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- Annex C Written Confirmation from Planning Department and Lands Department*
- Annex D Proposed Figures for Variation of Environmental Permit*

1.1

BACKGROUND

In line with the government policy on the beneficial use of public fill, the Fill Bank at Tuen Mun Area 38 (TMFB) was established and has been operating since 2003. TMFB is a temporary stockpiling area for public fill generated from construction works and is one of the Designated Waste Disposal Facilities under the *Waste Disposal Ordinance (WDO)*. Under Schedule 2 of the *Environmental Impact Assessment Ordinance (EIAO)*, the construction, operation and decommissioning of TMFB is classified as a Designated Project (DP) and an Environmental Permit (EP) is required.

An EP (No. EP-153/2003) was first issued for TMFB on 13 February 2003 for construction, operation and decommissioning of the facility. In order to accommodate its operational needs, an application for Variation of EP (VEP) (VEP-117/2003) was submitted on 15 October 2003 and the EP was amended to EP-135/2003/A on 30 October 2003.

In December 2004, Civil Engineering and Development Department (CEDD) proposed to expand and extend TMFB. The increase in the scale and scope of the project was regarded as a material change to a DP, and therefore a new EP was required. A Project Profile (PP) (DIR-113/2005) was submitted to Environmental Protection Department (EPD) for direct application of an EP on 4 January 2005 and a new EP (EP-210/2005) was issued on 25 February 2005 for the operation of TMFB until it completes decommissioning by 31 March 2009. Applications of VEP and the associated Environmental Review Reports (hereafter “the 2008 ER Report” and “the 2013 ER Report”) were submitted in 2008 and 2013 to extend the operation of the TMFB. The latest amended EP (EP-210/2005/B) was issued on 8 April 2013 which specifies that the operation of the TMFB will be expired by 31 December 2018.

In view of the shortfall of reclamation projects in Hong Kong, the surplus public fill has to be temporarily stored in TMFB, pending opportunity for re-use to provide a stable public fill supply for future reclamation projects. Meanwhile, over the years, since local projects were able to absorb only a small portion of surplus public fill generated, the fill bank also serves as an outlet for delivering part of the surplus public fill to Mainland China for beneficial reuse. To maintain the storage for future stable supply and an outlet for public fill, CEDD proposes to extend the operation and decommissioning of the TMFB to the end of 2023. The proposed changes will require the variation of the conditions of current EP (EP-210/2005/B).

ERM-Hong Kong, Ltd (ERM) has been commissioned by the CEDD to undertake an environmental review to demonstrate that no adverse environmental impacts will arise from the proposed extended operation of the TMFB. The environmental review will provide supplementary information which forms part of the submission to the EPD for the VEP application.

1.2 *PROPOSED VARIATION OF EXISTING EP*

The proposed operational changes in TMFB would require variations of the following conditions of the existing EP:

- Amendment of *Location of Designated Project* in Part B:

Figure 1 should be updated to reflect the latest site boundary of the TMFB and to include one additional Construction & Demolition Materials Sorting Facility (NSA).

- Amendment of Part C *Condition 3.21*:

“The Project shall be fully decommissioned by 31 December-~~2018~~ 2023”.

- Deletion of Part C *Condition 4 and relevant Figures 5 and 6*:

The planned holiday camp is no longer valid as confirmed by Planning Department and Lands Department.

Figures 1 to 4 should be updated to reflect the updated site boundary. The proposed revised Figures of the existing EP are presented in *Annex D*.

Details of the proposed operational changes are described in *Section 2.1*.

1.3 *PURPOSE OF THIS REPORT*

This *Report* presents the outcomes of the above-mentioned study. Potential impacts on the environment and the community as a result of the proposed changes to TMFB are identified and evaluated.

1.4 *REPORT STRUCTURE*

The remainder of this *Report* is set out as follows:

- *Section 2* describes the proposed changes to TMFB, the associated potential environmental impacts and the variations to the current EP conditions required;
- *Section 3* provides the methodology and results of the air quality impact assessment;
- *Section 4* provides the other environmental outcomes;
- *Section 5* provides the conclusion of the environmental review; and
- *Section 6* describes the proposed variations of the existing EP.

2.1

PROPOSED OPERATIONAL CHANGES IN TMFB

According to condition 3.21 of the existing EP (EP-210/2005/B), TMFB has to be fully decommissioned by 31 December 2018. To meet the needs for temporary stockpiling area for public fill and to enable the clearance of the stockpiled materials at TMFB, CEDD has proposed to extend the operation and decommissioning of TMFB to 31 December 2023. The proposed operational changes in the TMFB include:

- Extend the operation and decommissioning of TMFB to 31 December 2023;
- Minor realignment of TMFB site boundary;
- Include one additional construction and demolition material sorting facility (NSA) at TMFB during the 5-year extended period;

Figure 2.1a shows the original and new site boundaries of the TMFB and Table 2.1a summarises the proposed operational changes of the TMFB.

Table 2.1a Proposed Operational Changes

	Assumptions in Project Profile and Previous ER Reports	Future Status with the Proposed Operational Changes
1 Operational and decommissioning phases of TMFB	<ul style="list-style-type: none"> • Up to 31 December 2018 	<ul style="list-style-type: none"> • Up to 31 December 2023
2 Stockpiling Capacity	<ul style="list-style-type: none"> • 5.1 million m³ in Project Profile • 4.2 million m³ in the 2008 ER Report & 2013 ER Report 	<ul style="list-style-type: none"> • 4.2 million m³, no Change • CEDD will hand over part of the TMFB area (approx. 6.4 ha) to Transport and Housing Bureau (THB) for future development without solid implementation schedule. The plan and its environmental impact are subject to review.
3 Maximum stockpiling height	<ul style="list-style-type: none"> • +40mPD 	<ul style="list-style-type: none"> • No change
4 Operating hours for reception of public fill delivered by trucks	<ul style="list-style-type: none"> • From 08:30 hrs to 19:00 hrs, daily (close during Chinese New Year and public holidays) 	<ul style="list-style-type: none"> • No change

	Assumptions in Project Profile and Previous ER Reports	Future Status with the Proposed Operational Changes
5	Nos. of incoming truck trips (public fill delivered by road)	<ul style="list-style-type: none"> • 1,600 truck loads/day in Project Profile • 1,500 truck loads/day in the 2008 ER Report • 1,600 truck loads/day in the 2013 ER Report
6	Operating hours for marine reception and export of public fill	<ul style="list-style-type: none"> • 24 hours a day • No change
7	Material to be handled at the berthing area of TMFB (including intake and export)	<ul style="list-style-type: none"> • 1,850 truck loads/day in 2013 ER Report <u>Daytime operation (0700-2300 hrs)</u> <ul style="list-style-type: none"> • 2,056 truck loads/day (29,400 tonnes/day); <u>Nighttime operation (2300-0700 hrs)</u> <ul style="list-style-type: none"> • 6,500 tonnes/night
8	No. of berthing point / barge handling area (BHA)	<ul style="list-style-type: none"> • 5 in Project Profile • 4 in the 2008 ER Report • 5 in the 2013 ER Report • No change
9	Additional Construction & Demolition Materials Sorting Facility (NSA)	<ul style="list-style-type: none"> - <u>Daytime operation (0700-2300 hrs)</u> <ul style="list-style-type: none"> • 10,400 tonnes/day (screening and handling) <u>Nighttime operation (2300-0700 hrs)</u> <ul style="list-style-type: none"> • 6,500 tonnes/night (handling)

2.2

CHANGES TO PROJECTS IN TUEN MUN AREA 38 AND IN THE PROXIMITY

Tuen Mun Area 38 is an industrial area planned for the provision of land for land-extensive and capital-intensive industry as well as for other special industries. The industrial premises in the vicinity of the TMFB are shown in *Figure 2.1a*. The operations of some of these facilities have changed since the granting of the existing EP (EP-210/2005/B). These changes are further described in the following paragraphs.

2.2.1

Additional Construction & Demolition Materials Sorting Facility (NSA)

CEDD has proposed to build an additional Construction & Demolition Materials Sorting Facility (NSA) at TMFB during the proposed extended operation period from 2019 to 2023. The NSA will be used for sorting the existing stockpiling of public fill within TMFB, no additional incoming truck is expected.

2.2.2

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.

Legend

- Additional Construction & Demolition Materials Sorting Facility (NSA)
- Proposed TMFB Boundary
- Existing TMFB Boundary
- C&DMHF (Indicative Boundary) (Planned)
- Existing C&DMSF
- Proposed Logistic Development at Tuen Mun Area 49
- Proposed Logistic Development at Tuen Mun Area 38

Setting-out Details

Point	Easting	Northing
1	811477.421	825551.993
2	811455.153	825500.000
3	811440.826	825465.525
4	811241.569	824992.221
5	811186.075	825029.984
6	811090.943	824890.123
7	811180.649	824816.946
8	811160.492	824768.894
9	811143.325	824744.292
10	810736.833	825021.003
11	810755.474	825044.511
12	811077.522	825450.66
13	811055.328	825634.104
14	811275.464	825581.811
15	811300.637	825614.991
16	811344.268	825604.832
17	811363.167	825590.623
18	811454.833	825551.958
19	811474.913	825564.066

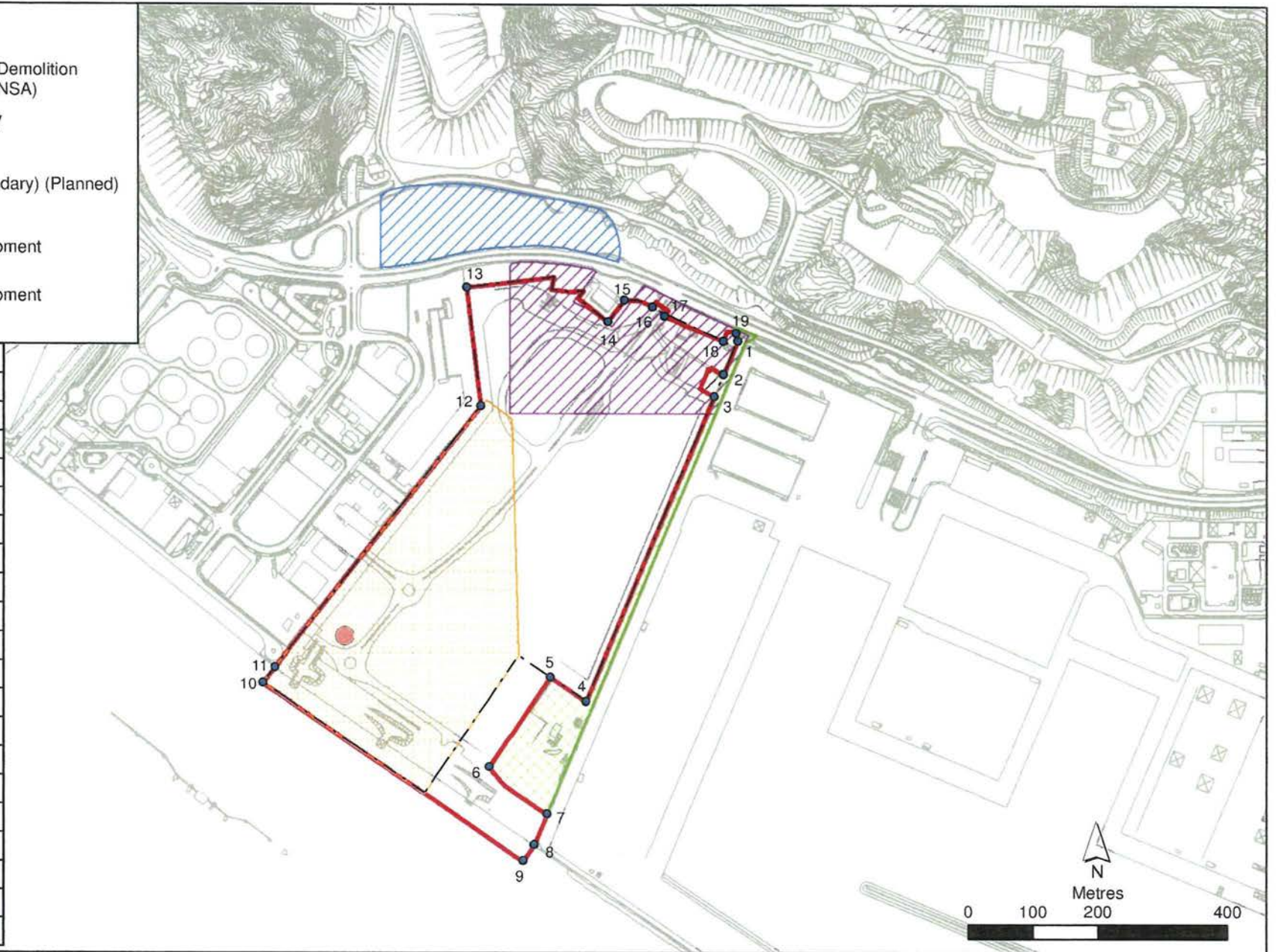


Figure 2.1a

Changes to TMFB and Its Immediate Vicinity

2.2.3 *Construction & Demolition Materials Handling Facility (C&DMHF)*

A C&DMHF would potentially be built and operated at TMFB to replace the existing TMFB. With this long-term management facility for C&D materials, all other C&D material handling facilities in Tuen Mun Area 38 such as TMFB and the temporary C&DMSF will cease operation after the commencement of C&DMHF. However, the exact implementation schedule is not available at this stage.

Only minor construction works will be required for the C&DMHF and the associated potential environmental impacts such as dust emissions will be properly controlled with appropriate mitigation. It is considered that the potential environmental impacts before handing over of the TMFB site for C&DMHF construction will represent the worst possible situation until the end of 2023. For this reason, no separate assessment was carried out for the scenario with the operation and decommissioning of the TMFB and the construction of C&DMHF being carried out concurrently.

2.2.4 *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. The completion year of the development is expected to be beyond 2023. Hence, no information can be referenced for the current ER.

2.2.5 *Planned Logistic Development in Tuen Mun Area 49*

A proposed logistics development situated in Tuen Mun Area 49 has been approved by Town Planning Board (see *Figure 2.1a*). The development includes a Cargo Handling and Forwarding Facility with ancillary offices. The construction of the proposed development is expected to commence in 2018 and complete by 2019. The subject site was awarded to Goodman Group on 2 May 2018.

2.2.6 *Potential Logistic Development in Tuen Mun Area 38*

A logistic development would potentially be constructed in Tuen Mun Area 38 (see *Figure 2.1a*). The construction and implementation programme of the development is currently under review and liaison is being undertaken between CEDD, THB and Environmental Bureau (ENB).

2.2.7 *Planned Holiday Camp Development*

A proposed holiday camp development located on the hill slopes to the north of TMFB (on the opposite side of Lung Mun Road) was previously identified

as one of the planned sensitive receivers in the PP (dated 2005). Planning Department (PlanD) has confirmed that the Project Proponent of the proposed holiday camp has withdrawn the planning application for the proposed holiday camp development under Section 16 of the Town Planning Ordinance. Lands Department has also confirmed the proposed holiday camp development is no longer valid (See *Annex C*). Based on the above, this planned sensitive receiver no longer exists.

Table 2.2a summarises the changes to the operations of facilities adjacent to TMFB.

Table 2.2a **Concurrent Projects in Tuen Mun Area 38**

Facilities	Assumptions in PP and Previous ER Reports	Future Status until end of 2023
1 Existing C&DMSF	<ul style="list-style-type: none"> Access through a separate entrance on Lung Mun Road C&DMSF remains operating at the same location Maximum processing capacity of 700 tonnes/day Operate concurrently with the TMFB operation 	No change
2 C&DMHF	No implementation programme is available; the construction phase of C&DMHF may coincide with the operation and decommissioning of TMFB. However, it is considered that the potential environmental impacts before handing over of the site for C&DMHF construction will represent the worst possible situation until end of 2018	The construction phase of C&DMHF may coincide with the operation and decommissioning of TMFB. However, it is considered that the potential environmental impacts before handing over of the site for C&DMHF construction will represent the worst possible situation until end of 2023

2.3 **POTENTIAL ENVIRONMENTAL ISSUES**

The checklist presented in *Table 2.3a* identifies the potential sources of environmental impacts associated with the proposed operational changes of TMFB. With reference to the *PP* and the latest available information on the facilities adjacent to TMFB, impact arising from dust and gaseous emissions during the extended operation period is expected to be the key concern of the proposed variation. Detailed discussions of the potential environmental impacts are shown in the subsequent sections.

Table 2.3a **Potential Environmental Impacts**

Type of Potential Impacts	Proposed Changes in TMFB
Gaseous emissions	✓ (vehicle emission)
Dust	✓
Odour	✗
Noisy operation	✗ (as no NSR within the study area)

Type of Potential Impacts	Proposed Changes in TMFB
Traffic generation	✓
Liquid effluent, discharge, or contaminated run-off	✓
Generation of waste or by-products	✗
Storage, handling, transport, or disposal of hazardous materials or wastes	✗
Risk of accidents which would result in pollution or hazard	✗
Landfill gas hazards	✓
Unightly visual appearance	✓
✓ possible ✗ not expected	

3.1 INTRODUCTION

This *Section* assesses the potential air quality impact associated with the operation of the TMFB due to the proposed variations presented in *Sections 2.1* and *2.2*.

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 ($\mu\text{g m}^{-3}$) ^(a)	No. of Exceedances Allowed per Year
Sulphur Dioxide (SO ₂)	10 minute	500	3
	24-hours	125	3
Respirable Suspended Particulates (RSP) ^(b)	24-hours	100	9
	Annual	50	-
Fine Suspended Particulates (FSP) ^(c)	24-hours	75	9
	Annual	35	-
Nitrogen Dioxide (NO ₂)	1-hour	200	18
	Annual	40	-
Carbon Monoxide (CO)	1-hour	30,000	0
	8-hour	10,000	0
Ozone (O ₃)	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 μm or less

(c) Suspended particles in air with a nominal aerodynamic diameter of 2.5 μm 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 latest 5-year concentrations (2013 - 2017) of RSP, FSP, NO₂ and SO₂ recorded at this AQMS 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	Concentration of Pollutants ($\mu\text{g m}^{-3}$)							
	19 th highest 1- hr NO ₂	Annual NO ₂	4 th highest 24-hr SO ₂	4 th highest 10-min SO ₂	10 th highest 24-hr RSP	Annual RSP	10 th highest 24-hr FSP	Annual FSP
2013 ^(a)	--	--	--	--	--	--	--	--
2014	184	53 ^(b)	33	128	125 ^(c)	47	83 ^(d)	30
2015	184	48 ^(b)	27	90	110 ^(c)	45	76 ^(d)	30
2016	167	51 ^(b)	28	75	103 ^(c)	44	63	27
2017	188	46 ^(b)	26	88	99	43	65	27
Prevailing AQOs	200	40	125	500	100	50	75	35

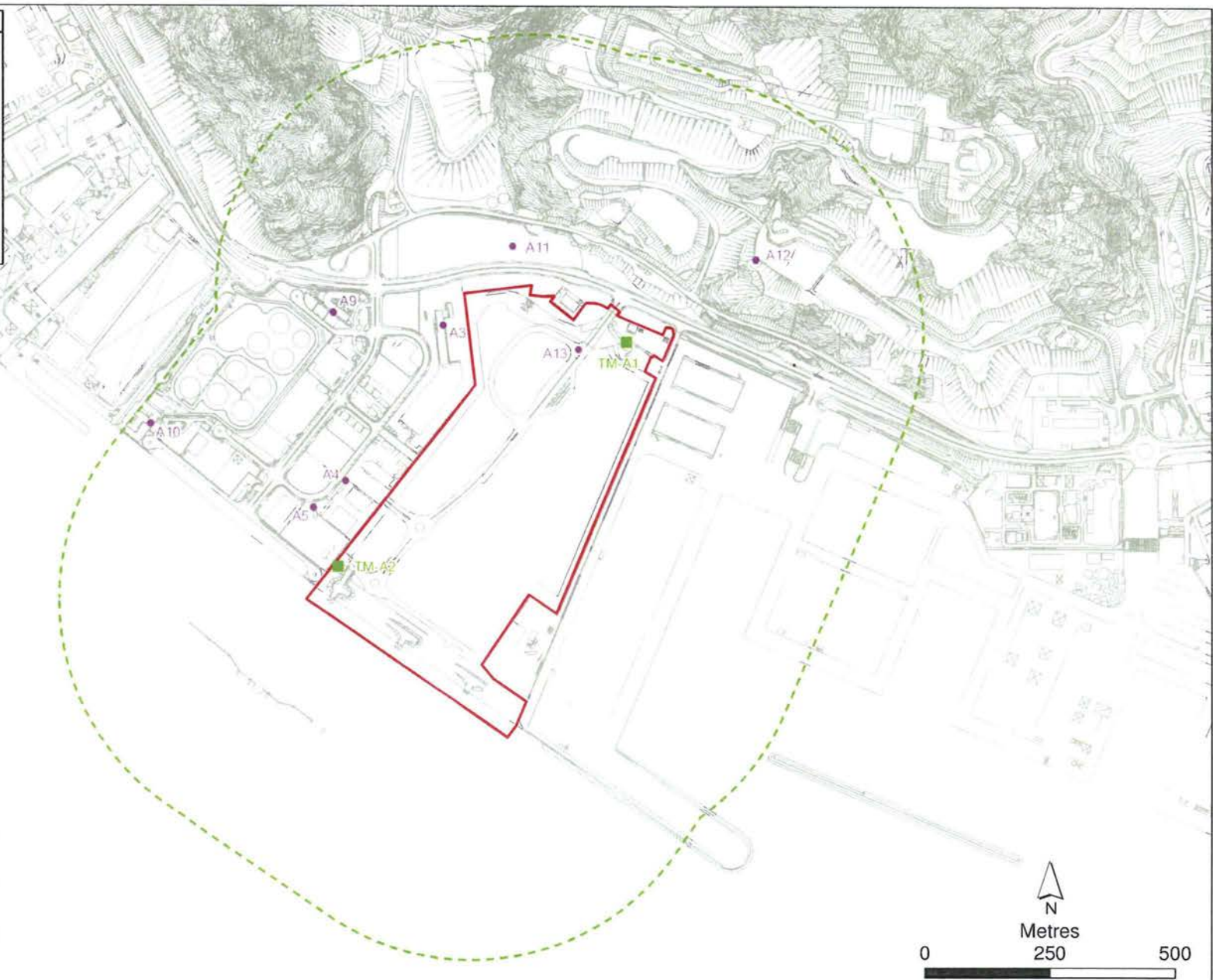
Notes:

- (a) Tuen Mun AQMS in operation since 2014.
- (b) Exceedance of annual average NO₂ 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 NO₂ 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

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	Office Building of Proposed Modern Logistics Development 1 (Indicative Location)
A12	Office Building of Proposed Brownfield Development (Indicative Location)
A13	Office Building of Proposed Modern Logistics Development 2 (Indicative Location)



Legend

- TSP Monitoring Stations
- Air Sensitive Receivers
- Tuen Mun Fill Bank
- Tuen Mun Fill Bank 500m Study Area

Figure 3.1

Locations of Representative Air Sensitive Receivers and TSP Monitoring Stations

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

3.3.2 *China Light and Power (CLP)'s Air Quality Monitoring Station at Lung Kwu Tan*

The latest 5-year concentrations (2013 – 2017) of NO₂ and SO₂ recorded at CLP's AQMS at Lung Kwu Tan 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	Concentration of Pollutants (µg m ⁻³)			
	19 th highest 1-hour NO ₂	Annual NO ₂	4 th highest 24-hour SO ₂	4 th highest 10-min SO ₂ ^(a)
2013	149	28	34	-
2014	149	27	24	131
2015	125	23	18	100
2016	131	24	33	163
2017	160	25	31	157
Prevailing AQOs	200	40	125	500

The measured 1-hour average NO₂, annual NO₂, 10-minute SO₂ and 24-hour SO₂ 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 and planned ASRs 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 ^(a)	Approx Separation Distance from the Site Boundary (m)	Approx Base Elevation (m)	Approx Max. Height (m above ground)
A3	Eco Park Tenant: WEEE	Industrial	30	5	4.5
A4	Eco Park Tenant: South China	Industrial	25	5	4.5
A5	Eco Park Tenant: Chung Yue	Industrial	20	5	4.5

ASR	Description	Type of Use ^(a)	Approx Separation Distance from the Site Boundary (m)	Approx Base Elevation (m)	Approx Max. Height (m above ground)
A9	Eco Park Administration Building	Industrial	255	6	4.5
A10	PAFF Office	Industrial	465	5	4.5
A11 ^(b)	Proposed Modern Logistics Development	Industrial	70	10	10
A12 ^(b)	Potential Brownfield Development	Industrial	170	48	10
A13 ^(b)	Potential Modern Logistics Development	Industrial	0.0 ^(a)	5	10

Note:

- (a) Potential ASR A13 will be located within the existing boundary of TMFB.
- (b) In view of the available information at the time of preparing this ERR, it is expected that the potential ASRs A11, A12 and A13 may not have population intake in 2019. As review of the air quality assessment will be conducted at yearly intervals (details given in Section 3.9), the status of these ASRs and the potential impact will be reviewed in the next review by June 2019.

3.5 POTENTIAL SOURCES OF AIR EMISSIONS

3.5.1 Air Emission Sources Associated with TMFB Operation

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); and
- Emissions from marine vessels (e.g. barges, derrick lighter, tugboat) during berthing and maneuvering for exporting and importing fill materials.

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
- Operation of the existing C&DMSF and emissions from marine vessels during berthing and maneuvering for material transport at the berth next to C&DMSF.

The construction of the planned logistics development at Tuen Mun Area 49 is expected to commence in 2018 and complete by 2019, while the one at Tuen Mun Area 38 has no implementation schedule yet. The construction of the planned logistics development at Tuen Mun Area 49 and the potential logistics development at Tuen Mun Area 38 will not involve large-scale excavation works and thus potential dust impacts during their construction are expected to be minimal. Industrial emissions could be involved during the operation of the logistics developments depending on the actual industrial operations but such information is not available at this stage. Up-to-date information regarding the operation of the logistics developments will be reviewed in the annual review as discussed in *Section 3.9*. Potential induced traffic arising from the logistics development is expected to be minor and has been considered in the traffic forecast (*Section 3.6.3*). Therefore, adverse concurrent air quality impact during the construction and operation of the logistics developments is not expected.

3.5.3 *Key Air Pollutants of Concern*

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 the generator for the operation of the existing C&DMSF may also contribute gaseous emissions. Therefore, TSP, RSP, FSP, NO₂ and SO₂ were identified to be the key air pollutants of concern during the TMFB extended operation and they have been assessed quantitatively.

3.6 ASSESSMENT METHODOLOGY AND ASSUMPTIONS

3.6.1 *Dust Emissions from TMFB Operational Activities*

As discussed in *Section 3.5*, dust emission sources associated with TMFB operational activities include fill material handling (loading/unloading at stockpiling areas and barging points), truck movement on haul roads and wind erosion from stockpiling areas. The locations of the aforementioned dust emission sources during the TMFB extended operation 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). Dust mitigation measures as discussed in *Section 3.7* 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 the existing C&DMSF and the proposed C&DMSF (i.e. NSA) may give rise to RSP, FSP,

NO₂ and SO₂ impacts. There are a total of 5 barging points at TMFB in which 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. A maximum of 3 barges can be at berth at any one time. 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 extended operation 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, NO₂ and SO₂ emission rate calculations, assumptions and emission inventory are provided in *Annex A1*.

3.6.3 *Vehicular Emissions from Internal and External Roads*

NO₂, 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. Mitigation measures as described in *Section 3.7* have been considered in the assessment in order to minimise the potential air quality impacts to EcoPark due to vehicular emissions from TMFB internal road traffic. The internal road alignment is illustrated in *Figure 3.2*. Other external roads within the Study Area identified in the assessment are illustrated in *Figure 3.3*. Projected hourly vehicle speed, hourly traffic flows and vehicle breakdown of 16 vehicle types for 24 hours for the identified roads in 2019 and 2023, which were provided by the Project's traffic consultant, are presented in *Annex A3*. The traffic forecast has been endorsed by Traffic Department and the approval letter is provided in *Annex A7*.

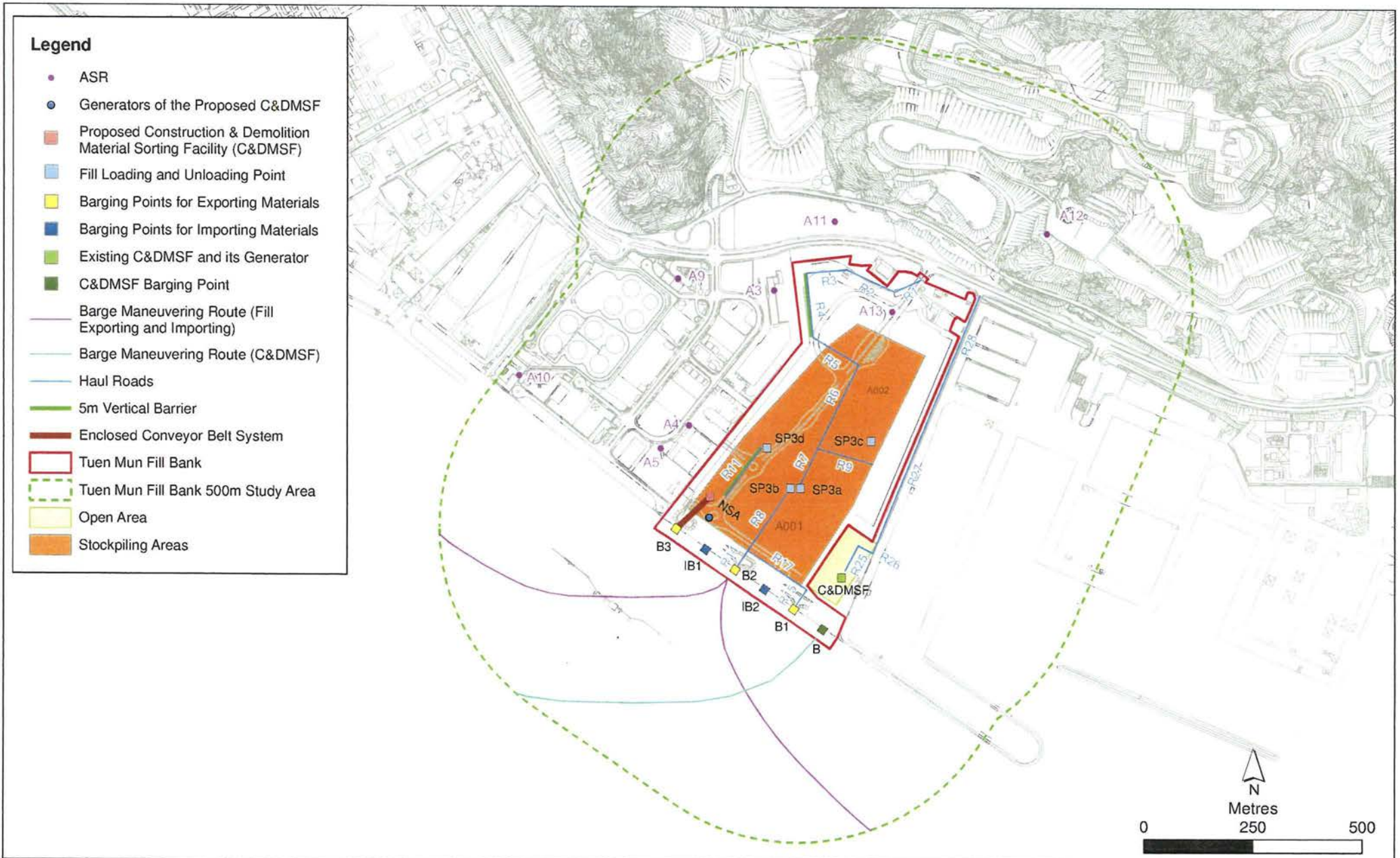
3.6.4 *Other Major Industrial Emissions in the Vicinity of TMFB*

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 has provided information of tenants and emissions within EcoPark up to June 2019 (as of June 2018). Currently, there are four tenants with emissions within EcoPark, namely WEEE-Park, SSK Metal (waste batteries), K Wah and South China. A proposed waste paper recycling facility will be located at Lots P1, P5 and P6&P7. Potential stack emissions may exist at Lots P1 or P6&P7 (no chimney at P5 as it is located within the chimney restricted area as stipulated in the EP-226/2005/E) when the proposed waste paper recycling facility becomes operational by June 2019.



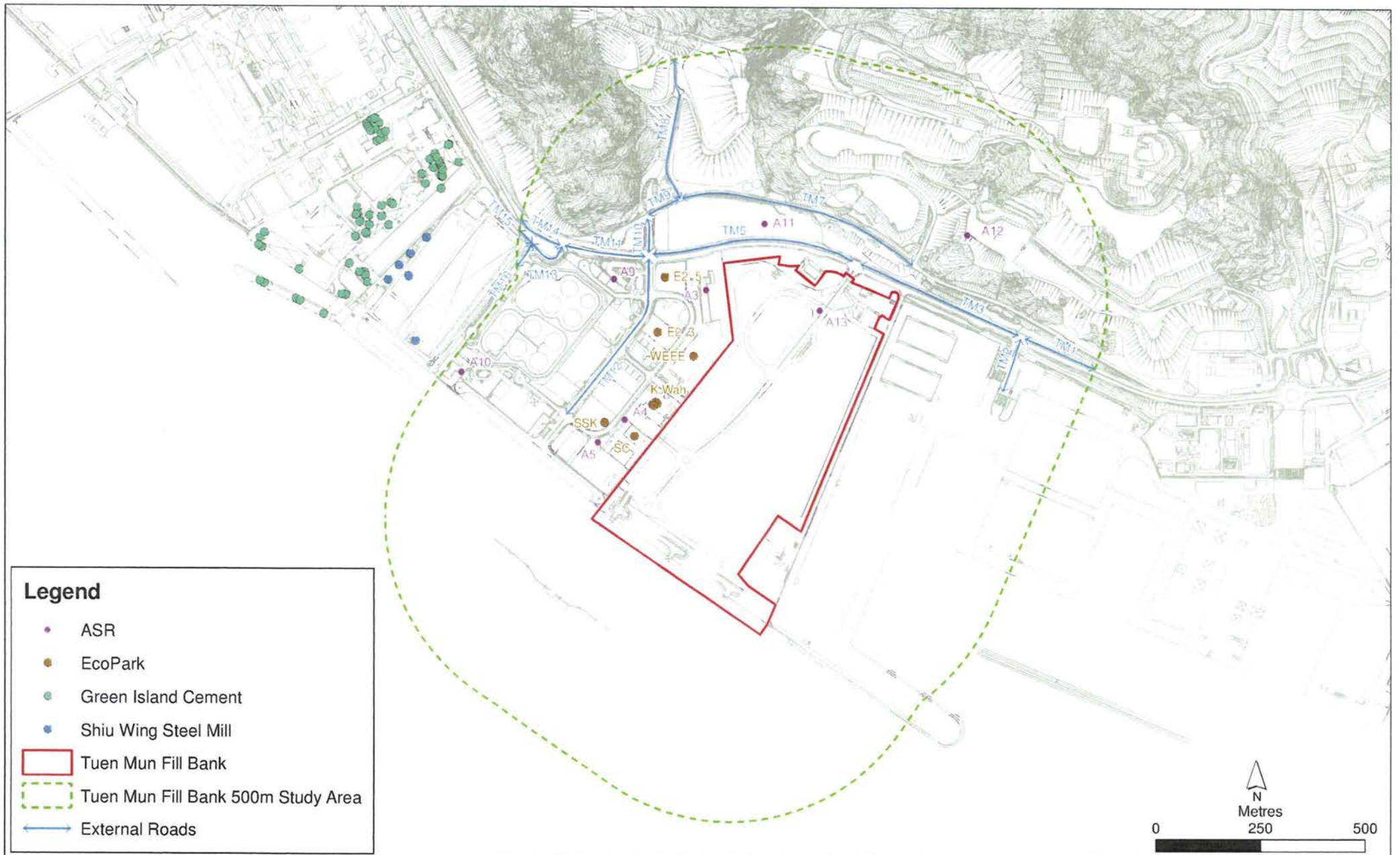


Figure 3.3

External Roads and Industrial Sources within 500m Study Area

As the emission information confirmed by Waste Reduction Group of EPD is only up to June 2019, potential emissions from EcoPark beyond June 2019 cannot be foreseen at this stage. Therefore, the assumptions related to EcoPark emissions adopted in this assessment was based on a scenario before June 2019. Two cases of EcoPark emissions were assessed and they are summarised in *Table 3.5*.

Table 3.5 *Two Cases of EcoPark Emissions*

Emission Source	Case 1	Case 2
WEEE ^{(a)(c)}	✓	✓
K Wah ^(a)	✓	✓
SSK Metal ^(a)	✓	✓
South China ^(a)	✓	✓
E2_3 at Lot P6&P7 ^(b)	✓	
E2_5 at Lot P1 ^(b)		✓

Note:
 (a) Existing EcoPark emissions.
 (b) Potential future stack of the proposed waste paper recycling facility.
 (c) WEEE is assumed to be operating 24 hours.

CEDD will carry out reviews at yearly intervals during the proposed 5-year extension period (i.e. 2019 to 2023) to ensure that the air quality impact within the Study Area would comply with the relevant AQOs (next review by end of June 2019). The locations of the existing emissions and potential future stacks of the proposed waste paper recycling facility 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 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

ASR	Description	Relevant PATH Grid
A12	Potential Brownfield Development	16, 39
A13	Potential 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"> Point sources, area sources
Assessment parameter	<ul style="list-style-type: none"> 1-hour TSP 24-hour RSP and annual RSP 24-hour FSP and annual FSP 1-hour NO₂ and annual NO₂ 10-minute SO₂ and 24-hour SO₂
Meteorological data	<ul style="list-style-type: none"> 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 PATH Grid - (15,38), (15,39) and (16,39) 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 Wind direction of 0° to be adjusted to 360° Wind speed smaller than 1m s⁻¹ to be adjusted to 1m s⁻¹ Anemometer height of WRF data = 9m

An EPD recommended model, EMFAC-HK v3.4, was used to predict the vehicular emission factors of NO_x, RSP and FSP for the 16 vehicle types in 2019 and 2023. "EMFAC" mode was used for the model run. EMFAC input assumptions, the output emission factors of NO_x, NO, NO₂, RSP and FSP for the 16 vehicle types and the calculation of the composite emission factors are presented in *Annex A3*. A sensitivity analysis was carried out to determine the worst year (2019 or 2023) in terms of vehicular emissions. The total daily

vehicular emissions of NO_x, RSP and FSP within the Study Area in 2019 and 2023 are summarised in Table 3.8. It is shown that the total daily vehicular emissions within the Study Area are higher in 2019 than in 2023. Therefore, traffic forecast in 2019 was adopted for the assessment of vehicular emissions. Based on the traffic forecast, the background traffic arising from external roads is highest in 2023, while the incoming traffic to TMFB is highest in 2019 as the fill handling is expected to be the highest in 2019 within the proposed 5-year extension. Traffic forecast in 2019 and 2023 have covered the worst traffic scenarios within the proposed extension period. A breakdown of hourly vehicular emissions of NO_x, RSP and FSP in 2019 and 2023 within the Study Area is provided in Annex A3.

Table 3.8 *Total Daily Vehicular Emissions of NO_x, RSP and FSP within the Study Area in 2019 and 2023*

Pollutant	2019	2023
NO _x (g)	62029.3	49969.5
RSP (g)	1939.9	1770.9
FSP (g)	1784.7	1629.4

An EPD recommended air dispersion model, CALINE4, was used for predicting the NO₂, 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 ⁽¹⁾.

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

Where

Z_o = is the surface roughness length (in cm) of the PATH grid;

S_o = 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 3.9 shows the standard deviations of the horizontal wind direction fluctuations under different Pasquill Stability categories for the concerned PATH grid.

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

Pasquill Stability Class	Standard Deviation of the Horizontal Wind Direction Fluctuations (in degrees)
PATH Grid (15,38), (15,39), (16,39)	
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 Table 3.10.

Table 3.10 *Model Input Parameters and Assumptions for Assessment of Vehicular Emissions*

Input Parameters & Assumptions	Descriptions
Air dispersion model	<ul style="list-style-type: none"> CALINE4
Year of traffic flow	<ul style="list-style-type: none"> Year 2019
Vehicle emission factors	<ul style="list-style-type: none"> EMFAC-HK emission factors for 2019
Assessment parameter	<ul style="list-style-type: none"> 24-hour RSP and annual RSP 24-hour FSP and annual FSP 1-hour NO₂ and annual NO₂
Meteorological data	<ul style="list-style-type: none"> Weather Research and Forecasting Model (WRF) data in 2010 from PATH-2016 PATH Grid - (15,38), (15,39) and (16,39) 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 Wind speeds smaller than the 0.5 m s⁻¹ recommended by the CALINE4 model were adjusted to 0.5 m s⁻¹. Stability class calculated by PCRAMMET (version 99169) Calculation of wind directional variability based on stability class and surface roughness length of 100 cm for rural areas.

Background Air Quality

For the assessment of NO₂ impact, the PATH-2016 model in 2019 was re-run to exclude NO_x 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_x emissions from road traffic and industrial emissions which have been considered in Tier-2

contributions. The same amount of marine NO_x emissions removed from the PATH-2016 model have been added to Tier-2 (AERMOD).

The hourly NO₂ concentrations in 2019 predicted by the PATH-2016 model re-run were adopted as the background air quality. The hourly RSP and SO₂ 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 3.11*.

Table 3.11 *Background Air Pollutant Concentrations Predicted by the PATH-2016 Model in 2019*

PATH Grid	Concentration of Pollutants ($\mu\text{g m}^{-3}$)								
	19 th highest 1-hour NO ₂ ^(c)	Annual NO ₂ ^(c)	4 th highest 24-hour SO ₂	4 th highest 10-min SO ₂ ^(a)	10 th highest 24-hour RSP ^(b)	Annual RSP ^(b)	10 th highest Daily Max. 8-hour O ₃	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
Prevailing AQOs	200	40	125	500	100	50	160	30,000	10,000

Notes:

(a) The multiplicative factor for the stability class calculated for each hour was applied to the 1-hour SO₂ concentrations to estimate the 10-minute SO₂ 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 NO₂ results are from PATH-2016 model re-run with NO_x emissions from road traffic and industrial emissions in relevant PATH grids removed to avoid double-counting.

As shown in *Table 3.11*, the background air pollutant concentrations in the relevant PATH grids in 2019 are below the relevant AQO criteria.

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_{2.5} 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 3.12* presents the EPD recommended FSP to RSP ratios which are adopted in this assessment.

Table 3.12 *FSP to RSP Ratios as recommended by the EPD*

	Annual	24-hour
FSP (PM _{2.5})/FSP (PM ₁₀) ratio	0.71	0.75

Note:

(a) Reference to EPD's *Guidelines on the Estimation of PM_{2.5} for Air Quality Assessment in Hong Kong*.

The hourly background RSP and FSP concentrations in 2019 predicted by the PATH-2016 model were used to establish the background contributions for the cumulative impact assessment. 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.

Post-processing of Modelling Results

For stack emissions, the hourly concentrations of NO_x were predicted at the relevant assessment heights of the identified ASRs. Ozone Limiting Method (OLM) was adopted for the conversion of NO_x to NO_2 . The initial NO_2/NO_x ratio for stack emissions was assumed to be 0.1 ⁽¹⁾ and the conversion of NO_x to NO_2 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_2 concentration
- $[\text{NO}_x]_{\text{pred}}$ = the predicted NO_x concentration
- MIN means the minimum of the two values within the brackets
- $[\text{O}_3]_{\text{bkgd}}$ = the representative O_3 background concentration; (46/48) is the molecular weight of NO_2 divided by the molecular weight of O_3

For vehicular emissions, individual NO_2/NO_x ratios of each vehicle type in 2019 have been used to estimate the overall NO and NO_2 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_2 based on OLM and were added with the predicted NO_2 concentrations to determine the total predicted NO_2 concentrations at the ASRs. The total predicted NO_2 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_2 concentration
- $[\text{NO}_2]_{\text{pred}}$ = the predicted NO_2 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_3 background concentration; (46/48) is the molecular weight of NO_2 divided by the molecular weight of O_3

Predicted ozone concentrations in 2019 obtained from the PATH-2016 model re-run were used for the conversion of NO_x to NO_2 in OLM.

The hourly SO_2 concentrations at the identified ASRs were converted into 10-minute SO_2 concentrations for comparison with the respective AQO criterion. According to the EPD's "*Guidelines on the Estimation of 10-minute Average SO_2 Concentration for Air Quality Assessment in Hong Kong*", it is recommended that

(1) Air Quality Studies for Heathrow: Base Case, Segregated Mode, Mixed Mode and Third Runway Scenarios modelled using ADMS-Airport, 2007.

the stability-dependent multiplicative factors from Duffee *et al.*, 1991⁽¹⁾ be used. The conversion factors adopted in this assessment for the different stability classes are shown in *Table 3.13*.

Table 3.13 *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 SO₂ Concentration for Air Quality Assessment in Hong Kong"

Cumulative Impact

The predicted TSP, RSP, FSP, NO₂ and SO₂ 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

MITIGATION MEASURES FOR EXTENDED TMFB OPERATION

Relevant dust control measures stipulated in the *Air Pollution Control (Construction Dust) Regulation* has been implemented during the operation of the TMFB and will continue to be implemented in the extension period. Major haul roads and material stockpiling areas will be watered at least once every hour during operation. To further mitigate potential dust impacts to EcoPark, internal road R3, R4, R5 and R11 will be kept wet at all times. 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 during the extension period.

Specific dust control measures to be undertaken during the proposed extended operation include the following:

(1) 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.

- 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 road R3, R4, R5 and R11 (see *Figure 3.2*) 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 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;
- Final slope surfaces shall be treated by compaction, followed by hydroseeding, vegetation planting or other suitable surface stabilizer approved by CEDD to prevent the washing away of stockpiled material;

In addition, the following air quality mitigation measures will be undertaken to reduce and minimise the air quality impact from the NSA operation during the proposed extended operation:

- (a) The internal road R11 between material stockpile location (SP3d) and the NSA will be shifted approximately 75m away from the west site boundary of TMFB to reduce the potential air quality impact to EcoPark due to dust and vehicular emissions generated by truck movement along R11;
- (b) A vertical barrier of 5m high will be erected along the west side of the internal road R4 and R11 to reduce potential air quality impact to EcoPark due to dust and vehicular emissions generated by truck movement along R4 and R11;
- (c) NSA and its associated enclosed conveyor belt system will be connected to CLP power during its operation (diesel generators will not be required) starting July 2019;
- (d) Sorted material from NSA will be delivered to the barging point B3 via an enclosed conveyor belt system to avoid material delivery by trucks; and
- (e) Internal trucks used for material handling within TMFB will be at least of Euro V standard.

The following potential air quality mitigation measures were also considered but their implementation was determined to be impractical due to various constraints:

- (a) Use of electricity for barges/derrick lighters at berth to reduce associated marine emissions. Some barges/derrick lighters may not have the necessary onboard equipment for connecting to CLP power while berthing.
- (b) Increase the vehicle speed limit for internal roads (currently set as 10km/hour) to reduce associated vehicular emissions, as vehicular emissions tend to be lower when the vehicle speed increases. The vehicle speed limit cannot be greater than 10km/hour due to safety reasons.

Additionally, with reference to Condition 3.9 of the current EP, vehicle speed within the site is limited to 10km/hour to reduce potential dust emissions generated from trucks travelling on the haul roads.

- (c) Installation of emission control device (e.g. Selective Catalytic Reduction device) to internal trucks to reduce associated vehicular emissions. One of the factors determining the efficiency and effectiveness of the vehicle emission control device is the travelling speed of the vehicle. Since the travelling speed of internal trucks is very low (i.e. 10km/hour), the emission control device under such low speed may be inefficient and thus ineffective in reducing the associated vehicular emissions.

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 two cases of EcoPark emissions (see Section 3.6.4), have been assessed. The predicted cumulative maximum 1-hour TSP, 10th highest 24-hour and annual RSP, and 10th highest 24-hour and annual FSP 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 two cases are provided in Annex A5.

Table 3.14 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 th Highest 24-hour RSP (a)	Annual RSP	10 th Highest 24-hour FSP (a)	Annual FSP
A3	368.1	86.8	38.8	65.3	27.3
A4	366.2	94.8	43.1	69.9	30.3
A5	453.7	92.4	42.5	68.3	29.4
A9	202.3	84.8	37.8	63.7	26.9
A10	203.6	89.6	40.8	68.1	29.4
A11 (b)	315.1	86.1	37.5	64.7	26.7
A12 (b)	204.6	84.8	36.1	63.7	25.6
A13 (b)	328.6	86.7	38.1	64.6	26.6
Criteria (c)	500	100	50	75	35

Notes:

- (a) The AQO allows 9 exceedances over a year, therefore, the results presented are in the 10th highest.
- (b) A11, A12 and A13 may not have population intake in 2019. The status of these potential ASRs and the potential impact will be reviewed in the next review by end of June 2019.
- (c) 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 the extended operation of TMFB is not anticipated.

3.8.2 *NO₂ Impacts*

Cumulative NO₂ impacts on the identified ASRs, taking into account the two cases of EcoPark emissions (see *Section 3.6.4*), have been assessed. The predicted cumulative 19th highest 1-hour NO₂ and annual NO₂ 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 two cases are provided in *Annex A5*.

Table 3.15 *Predicted Cumulative NO₂ Concentrations at the Worst Affected Height at Identified ASRs*

ASR	Predicted Cumulative Concentration ($\mu\text{g m}^{-3}$)	
	19 th Highest 1-hour NO ₂ ^(a)	Annual NO ₂
A3	154.6	38.7
A4	145.2	38.7
A5	147.2	38.9
A9	141.4	37.1
A10	141.7	37.7
A11 ^(b)	156.3	39.2
A12 ^(b)	133.9	30.7
A13 ^(b)	151.2	35.1
AQO Criteria	200	40

Notes:

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

(b) A11, A12 and A13 may not have population intake in 2019. The status of these potential ASRs and the potential impact will be reviewed in the next review by end of June 2019.

The assessment results show that the cumulative NO₂ impacts at the identified ASRs comply with the relevant AQO criteria. Therefore, adverse cumulative NO₂ impact arising from the extended operation of TMFB is not anticipated.

3.8.3 *SO₂ Impacts*

Cumulative SO₂ impacts on the identified ASRs, taking into account the two cases of EcoPark emissions (see *Section 3.6.4*), have been assessed. The predicted cumulative 4th highest 10-minute SO₂ and 4th highest 24-hour SO₂ at the worst affected height of the identified ASRs are presented in *Table 3.16*. Detailed results of all relevant assessment heights of each ASR under each of the two cases are provided in *Annex A5*.

Table 3.16 *Predicted Cumulative SO₂ Concentrations at the Worst Affected Height at Identified ASRs*

ASR	Predicted Cumulative Concentration ($\mu\text{g m}^{-3}$)	
	4 th Highest 10-min SO ₂ ^(a)	4 th Highest 24-hour SO ₂ ^(a)
A3	212.8	37.0
A4	223.9	41.6
A5	220.8	41.1
A9	208.4	37.8
A10	208.7	40.7
A11 ^(b)	187.8	37.0
A12 ^(b)	182.0	37.0
A13 ^(b)	216.0	37.0
AQO Criteria	500	125

Notes:

- (a) The AQO allows 3 exceedances over a year, therefore, the results presented are in the 4th highest.
- (b) A11, A12 and A13 may not have population intake in 2019. The status of these potential ASRs and the potential impact will be reviewed in the next review by end of June 2019.

The assessment results show that the cumulative SO₂ impacts at the identified ASRs comply with the relevant AQO criteria. Therefore, adverse air quality impact from potential SO₂ emissions during the extended operation of TMFB is not anticipated.

3.9 *ANNUAL REVIEW*

As some of the lot uses and their associated potential emissions within EcoPark beyond June 2019 as well as potential emissions from planned developments (i.e. logistics developments) within the Study Area cannot be determined at this stage, review of the air quality impact assessment presented in this ERR will be conducted at yearly intervals to ensure that the relevant AQO criteria are complied with throughout the proposed 5-year extension period. The next review will therefore be conducted by end of June 2019.

3.10 *EM&A REQUIREMENTS*

The existing 1-hour and 24-hour TSP monitoring at monitoring stations TM-A1 and TM-A2 as required under the EM&A programme will be continued during the extended operation. The locations of TM-AQ and TM-A2 are shown in *Figure 3.1*. The monitoring frequency and equipment will be same as the existing monitoring programme (i.e. 1-hour TSP levels and 24-hour TSP levels are monitored three times every six days and once every six days, respectively, using high volume samplers). The maximum and average 1-hour and 24-hour TSP levels from January 2014 to November 2017 are presented in *Table 3.17*.

Table 3.17 *Summary of Measured Hourly and Daily TSP Monitoring Data at TM-A1 and TM-A2 from January 2014 to November 2017*

Results	TM-A1		TM-A2	
	Hourly TSP Concentration ($\mu\text{g m}^{-3}$) ^(a)	Daily TSP Concentration ($\mu\text{g m}^{-3}$) ^(a)	Hourly TSP Concentration ($\mu\text{g m}^{-3}$) ^(a)	Daily TSP Concentration ($\mu\text{g m}^{-3}$) ^(a)
Maximum	340	163	335	190
Average	174	93	258	132
TSP Criteria	500	260	500	260

Note:
(a) TSP monitoring data only available up to November 2017. Reference to TM Area 38 Fill Bank Monthly EM&A Reports from January 2014 to November 2017 (http://www.epd.gov.hk/eia/english/register/aep/ep2102005_index.html)

Table 3.17 shows that the measured hourly and daily TSP concentrations at TM-A1 and TM-A2 are generally low. No exceedance of the hourly or daily TSP criterion at TM-A1 and TM-A2 was recorded in the mentioned monitoring period. Detailed TSP monitoring data are provided in Annex A6.

4.1

WATER QUALITY

Similar to the existing operations, public fill will be delivered to and removed from the TMFB by barges at the tipping halls and the barge handling areas (BHA) during the extended operation period of the TMFB. In the PP, it is assumed that five barging points will be provided for loading/ unloading of public fills. This assumption will also apply to the extended operation period of the TMFB.

To prevent water pollution due to transportation of fill materials by barges, all environmental control and mitigation measures recommended in the PP (see *Annex B*) will be followed during extended operation period of the TMFB.

These measures include:

- All barges used are of appropriate size such that adequate clearance is maintained between the vessels and the sea bed at all state of tide to ensure no undue turbidity will be generated by turbulence from vessel movement or propeller wash;
- All vessel used for transportation of fill materials will have tight fitting seals to their bottom openings to prevent leakage of materials during transport;
- The design of transfer methods from barges to fill bank or vice versa will be in a way such that the pathway of material delivery from barge / fill bank to the waterfront will not be directly on top of the marine water to effectively prevent the dropping of materials to the sea; and
- Barges will not be filled to a level which may cause overflow of material during loading or transportation. Effluents from barge (e.g. muddy water) will be properly collected and treated prior to discharge to the sea. The work activities will not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging point.

The guidelines for handling and disposal of construction site discharges in EPD's *ProPECC Note PN1/94 Construction Site Drainage* will be followed. The mitigation measures recommended in the PP (such as a buffer distance of 50m from the seafront for stockpiling and drainage channels) will be implemented. Cautionary design, equipment and operational measures will be adopted in the berthing area to minimise the risk of water pollution. With the implementation of suitable precautionary measures, it is anticipated that no adverse water quality impacts will arise during the extended operation period of TMFB. The recent 12 months (January to December 2016) water quality monitoring data for the current operation of the TMFB show that the water

quality at all monitoring locations comply with the relevant criteria and no exceedance of action or limit levels was reported. The mitigation measures are proved to be effective and will be implemented during the extended operation period of the TMFB.

The existing water quality monitoring programme will be continue to ensure no exceedance of water quality parameters (ie dissolved oxygen, suspended solid and turbidity) during the extended operation period of the TMFB. The monitoring parameters, frequency and equipments will be same as the existing monitoring programme.

4.2

LANDSCAPE AND VISUAL IMPACT

The potential landscape and visual impacts associated with the TMFB were assessed in the PP. The design details of the NSA to be operated inside TMFB are yet to be confirmed, but the height of the NSA is expected to be much lower than the maximum stockpiling height of +40mPD. The potential visual impact to the NSA from nearby visual sensitive receptors is therefore considered insignificant.

The landscape and visual control measures recommended in the PP (such as hydroseeding or coloured geotextile on the slopes of fill bank, buffer planting along the northern site boundary, see *Annex B*) have been implemented in the TMFB. The implementation of the landscape and visual control measures results in the identification of plantation around the site office area and vegetation (dominated by *Leucaena leucocephala*) on the slopes of the stockpile area during a site visit on 22 December 2017.

The landscape and visual control measures recommended in the PP will continue to be implemented during the extended operation period.

The proposed operational changes to the TMFB will not change the visual context of the nearby visual sensitive receptors. The following visual impact control measures recommended in the PP will continue to be implemented during the extended period:

- Evaluate the lighting requirements for individual site activities in the evening and night-time periods to avoid the use of excessive lighting while ensuring safe operation;
- Directional down lighting should be used to minimize light spill to surrounding areas; and
- Illumination should be provided at active work areas only. Lighting provided should be localized and shielded from nearby visual sensitive receivers.

With the implementation of the landscape and visual control measures recommended in the PP, no adverse visual impact is anticipated due to the extended operation of the TMFB.

4.3

LANDFILL GAS HAZARD

A small portion of TMFB adjoining Lung Mun Road is within the landfill consultation zone of Siu Lang Shui Landfill. As shown in Figure 3 of the EP, the main site office of the TMFB will be located outside the 250m consultation zone of the restored Siu Lang Shui Landfill. No underground drainage and sewerage system have been and will be constructed in the area within the consultation zone. With the adoption of the precautions and safety measures recommended in the PP (e.g. restriction of public access to TMFB, container office(s) at the site entrance / exit situated within the consultation zone is constructed on a raised hollow platform, see *Annex B*) the potential landfill gas hazards associated with the extended operation of the TMFB will be low.

4.4

HAZARD TO LIFE

Phase I of Permanent Aviation Fuel Facility (PAFF) (comprising eight storage tanks) has commenced operation in March 2010. According to the approved EIA for the Permanent Aviation Fuel Facility (PAFF) (Register No. AEIAR-107/2007), Phase II will be constructed between 2025 and 2030, depending on the demand of aviation fuel. The PAFF Phase I will be operated concurrently with the TMFB.

A hazard assessment was conducted in the PAFF EIA Report to address the potential risks associated with its operation on the surrounding off-site population. The assessment indicates that the risk levels at TMFB will be well within the acceptable standard stipulated in *Annex 4* of the EIAO-TM. As the separation distance between the PAFF and the TMFB is large and the expected population inside the TMFB during the extended period will be the same as the existing operation (i.e. less than 150 as assumed in the PAFF EIA Report), the potential risks associated with the operation of PAFF to TMFB will be the same as that presented in the 2008 ER Report. As a result, no hazard to life concern is anticipated for future operation of the TMFB.

The EcoPark has commenced operation since 2007. According to the approved EIA for the Development of an EcoPark in Tuen Mun Area 38 (Register No. AEIAR-086/2005), a hazard assessment was conducted to address the potential risks associated with its operation on the surrounding off-site population. The assessment concludes that leakage of any spilled materials off-site is not expected given that appropriate storage facilities with additional bunding areas & perimeter drainage channel are in place. The assessments also identifies no risk of fatality outside EcoPark in case of fire. As a result, no hazard to life concern is anticipated for future operation of the TMFB.

4.5

NOISE IMPACT

The nearest noise sensitive Receivers (NSRs) are identified as Yee Tsui House near Butterfly Beach and the village houses in Lung Tsai near Sha Po Kong located at approximately 2.5km and 2.0km from the boundary of the TMFB,

respectively (see *Figure 4.1a*). Given the large separation distance between TMFB and the NSRs, noise impact due to the operation of the TMFB will not be a concern.

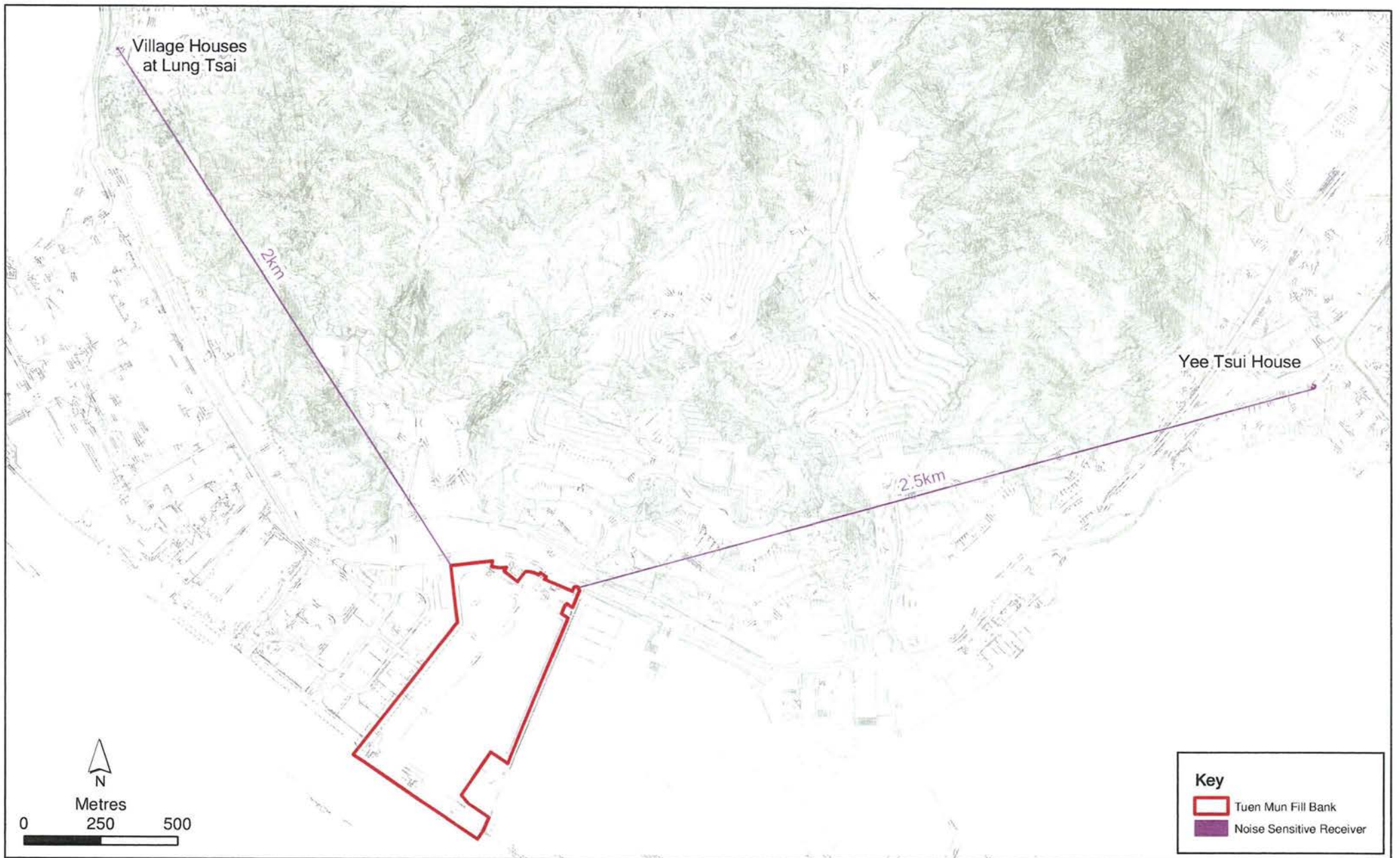


Figure 4.1a

Locations of Noise Sensitive Receivers

File: T:\GIS\CONTRACT\0164330\Wxd\0164330_TMF_NSR.mxd
 Date: 02-Aug-2018

Environmental
 Resources
 Management



5.1

SUMMARY OF ENVIRONMENTAL REVIEW

To meet the needs for temporary stockpiling area for public fills and to enable the clearance of the stockpiled materials at TMFB, CEDD is proposed to extend the operation and decommissioning of TMFB to 31 December 2023. During the extension period, the boundary of TMFB will be slightly realigned.

An environmental review has been carried out to assess the potential environmental impacts associated with the extended operation of the TMFB. The assessment indicates that no adverse environmental impacts are anticipated due to extending the operation period of the TMFB from January 2019 to 31 December 2023.

5.2

CONSIDERATION OF "MATERIAL CHANGE"

This Section provides an analysis of the proposed changes described in *Section 2* and the implications on the findings of the PP (DIR-133/2005) based on the discussions in *Sections 2 to 4* of this environmental review and to consider if the changes will constitute a "material change" under the definition described in *Section 6.1* of the *EIAO-TM*.

Table 5.2a summarises the analysis findings.

Based on the assessment findings in *Sections 3 and 4*, the environmental impact of the proposed extension of TMFB will not exceed the environmental performance requirements set out in the PP for this project and the *EIAO-TM* from the proposed changes. The proposed changes to operation of the TMFB will therefore not constitute a material change to the TMFB with the mitigation measures in place and it is considered that these changes could be incorporated into the Environmental Permit of the TMFB via a variation of the existing EP.

Table 5.2a Analysis of "Material Change"

Analysis aspect (ref: Section 6.1 of the EIAO-TM)	Involved Changes	Identified Environmental Change as per Annex 3 of the EIAO-TM (a) to (j)	Identified Effects Resulting from Environmental Changes as per Annex 3 of the EIAO-TM (a) to (n)	Discussion	Constitute Material Change?
(a) a change to physical alignment, layout or design of the project causing an environmental impact likely to affect existing or planned community, ecologically important areas or sites of cultural heritage.	Minor realignment of TMFB boundary at the southeast corner of the site and a NSA.	Since the number of truck load and the capacity of the fill bank will be no more than those assumed in the PP and the additional area to be included were previously used for temporary open storage and the C&DM sorting facility. The change of TMFB site boundary will not increase the emissions, discharge or releases to the environment or changes to the existing landscape as concluded in Sections 3 to 4 of this ER.	This ER concluded that the cumulative air quality impact will be acceptable.	The minor realignment of TMFB boundary will not have adverse impact affecting existing or planned community, ecologically important areas or sites of cultural heritage. With the design and mitigation measures as described in this ERR, no adverse environmental impact is expected with the NSA.	No
(b) a physical change resulting in an increase in the extent of reclamation or dredging affecting water flow or quality likely to affect ecologically important areas, or disrupting sites of cultural heritage;	No reclamation or dredging work associated with the fill bank operation.	-	-	-	No

Analysis aspect (ref: Section 6.1 of the EIAO-TM)	Involved Changes	Identified Environmental Change as per Annex 3 of the EIAO-TM (a) to (j)	Identified Effects Resulting from Environmental Changes as per Annex 3 of the EIAO-TM (a) to (n)	Discussion	Constitute Material Change?
(c) an increase in pollution emissions or discharges or waste generation likely to violate guidelines or criteria in this technical memorandum without mitigation measures in place;	<p>The number of incoming truck load per day is reduced from 1,500/1,600 as stated in the PP and previous ERRs to 1,300 in this ERR. The stockpiling capacity of the fill bank will be no more than those assumed in the PP and previous ERRs.</p> <p>The number of internal truck loads for material handling at the berthing area is expected to increase due to the NSA operation. There may also be additional emissions from barges and diesel generators associated with the NSA operation. The operational design of the NSA and its conveyor belt system will form part of the upgraded fill bank operation, such that air quality impact are not expected to violate the criteria stipulated in the EIAO-TM.</p>	No adverse impact as concluded in Sections 3 to 4 of this ER	No adverse impact as concluded in Sections 3 to 4 of this ER -	No adverse impact as concluded in Sections 3 to 4 of this ER -	No
(d) an increase in throughput or scale of the project leading to physical additions or alterations that are likely to violate the guidelines or criteria in this technical memorandum without mitigation measures in place; or	<p>The number of incoming truck load per day is reduced compared to that assumed in the PP and previous ERRs. The stockpiling capacity of the fill bank will be no more than those assumed in the PP and previous ERRs. The number of internal truck loads for material handling at the berthing area is expected to increase due to the NSA operation. There may also be additional emissions from barges and diesel generators associated with the NSA operation. The addition of the NSA only provides an upgraded processing step for stockpiled material under the project and</p>	No adverse impact as concluded in Sections 3 to 4 of this ER	No adverse impact as concluded in Sections 3 to 4 of this ER -	No adverse impact as concluded in Sections 3 to 4 of this ER -	No

Analysis aspect (ref: Section 6.1 of the EIAO-TM)	Involved Changes	Identified Environmental Change as per Annex 3 of the EIAO-TM (a) to (j)	Identified Effects Resulting from Environmental Changes as per Annex 3 of the EIAO-TM (a) to (n)	Discussion	Constitute Material Change?
(e) a change resulting in physical works that are likely to affect a rare, endangered or protected species, or an important ecological habitat, or a site of cultural heritage.	does not affect the overall throughput of the TMFB. Not affecting any rare, endangered or protected species, or an important ecological habitat, or a site of cultural heritage.	-	-	-	No

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	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	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)
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)
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)	

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: $E (g/vkt) = k ((sL)^{0.91}) * ((W)^{1.02})$

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 11/11)

$sL = 2.4 \text{ g/m}^2$ 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 (w)				
5	New C&DMSF (NSA)	Material handling and screening at NSA		Handling Capacity	9152	tonnes/day					Provided by CEDD			
				working hours		16	hours					Provided by CEDD		
			TSP	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)			
			RSP	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)			
			FSP	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 at NSA (nighttime)		Handling Capacity	6500	tonnes/day					Provided by CEDD			
				working hours		8	hours					Provided by CEDD		
			TSP	Emission Factor (handling)	2.13E-04	kg/Mg	4.82E-02	4.82E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)			
				Emission Factor (handling)	1.01E-04	kg/Mg	2.28E-02	2.28E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)			
			RSP	Emission Factor (handling)	1.53E-05	kg/Mg	3.45E-03	3.45E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)			
				Emission Factor (handling)	1.53E-05	kg/Mg	3.45E-03	3.45E-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				
TSP	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)			
RSP	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	1.53E-05				kg/Mg	5.31E-04	5.31E-05	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)			
7	Barging points for exporting materials	Material handling at B1, B2					Handling rate (per location)	7500	tonnes/day					Provided by CEDD
							working hours		16	hours				
			TSP	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)			
			RSP	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)			
				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 B3		Handling rate (per location)	10400	tonnes/day						Provided by CEDD	
					working hours		16	hours					Provided by CEDD	
		TSP		Emission Factor	2.13E-04	kg/Mg	3.85E-02	3.85E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)			
				Emission Factor	1.01E-04	kg/Mg	1.82E-02	1.82E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)			
		Material handling at B3 (nighttime)		Handling rate (per location)	6500	tonnes/day						Provided by CEDD		
				working hours		8	hours					Provided by CEDD		
			TSP	Emission Factor	2.13E-04	kg/Mg	4.82E-02	4.82E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)			
				Emission Factor	1.01E-04	kg/Mg	2.28E-02	2.28E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)			
		RSP	Emission Factor	1.53E-05	kg/Mg	3.45E-03	3.45E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)				
			Emission Factor	1.53E-05	kg/Mg	3.45E-03	3.45E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)				
8	Truck movement haul roads	R1, R2, R3, R4, R5, R6		Truck Quantity	2660	truck/day					Provided by CEDD			
				working hours		10.5	hours					Provided by CEDD		
			TSP	Emission Factor	192.07871	g/vkt	1.35E-02	1.12E-03	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)			
				Emission Factor	36.869597	g/vkt	2.59E-03	2.15E-04	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)			
			RSP	Emission Factor	8.9200637	g/vkt	6.28E-04	5.21E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)			
				Emission Factor	8.9200637	g/vkt	6.28E-04	5.21E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)			
			R7		Truck Quantity	2640	truck/day						Provided by CEDD	
					working hours		10.5	hours					Provided by CEDD	
				TSP	Emission Factor	192.07871	g/vkt	1.34E-02	1.11E-03	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)		
					Emission Factor	36.869597	g/vkt	2.58E-03	2.14E-04	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)		
			RSP	Emission Factor	8.9200637	g/vkt	6.23E-04	5.17E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)			
				Emission Factor	8.9200637	g/vkt	6.23E-04	5.17E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)			
		R8		Truck Quantity	2100	truck/day						Provided by CEDD		
				working hours		16	hours					Provided by CEDD		
			TSP	Emission Factor	192.07871	g/vkt	7.00E-03	5.81E-04	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)			
				Emission Factor	36.869597	g/vkt	1.34E-03	1.12E-04	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)			
			RSP	Emission Factor	8.9200637	g/vkt	3.25E-04	2.70E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)			
				Emission Factor	8.9200637	g/vkt	3.25E-04	2.70E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)			

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)	
		R9		Truck Quantity	20	truck/day					Provided by CEDD
				working hours	10.5	hours					Provided by CEDD
			TSP	Emission Factor	192.07871	g/vkt	1.02E-04	8.44E-06	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			RSP	Emission Factor	36.869597	g/vkt	1.95E-05	1.62E-06	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
		FSP	Emission Factor	8.9200637	g/vkt	4.72E-06	3.92E-07	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)	
		R11		Truck Quantity	1280	truck/day					Provided by CEDD
				working hours	16	hours					Provided by CEDD
			TSP	Emission Factor	192.07871	g/vkt	4.27E-03	3.54E-04	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			RSP	Emission Factor	36.869597	g/vkt	8.19E-04	6.80E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
		FSP	Emission Factor	8.9200637	g/vkt	1.98E-04	1.65E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)	
		R14, R15, R17		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)	
		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)

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/m² = 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 ^(a)	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												
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	5.56E-05	0.00E+00	2.63E-05	0.00E+00	3.98E-06	0.00E+00
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	3.39E-05	0.00E+00	1.60E-05	0.00E+00	2.43E-06	0.00E+00
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	1.75E-03	0.00E+00	5.88E-04	0.00E+00	3.97E-05	0.00E+00
NSA_H	Material Handling	Area	810860.3	825087.9	10	10	5	0.5	0	0700-2300 (daytime) 2300-0700 (nighttime)	3.39E-05	4.82E-05	1.60E-05	2.28E-05	2.43E-06	3.45E-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	2.78E-05	0.00E+00	1.31E-05	0.00E+00	1.99E-06	0.00E+00
B2	Material Handling	Area	810921.9	824932.6	10	10	5	0.5	124.37	0700-2300	2.78E-05	0.00E+00	1.31E-05	0.00E+00	1.99E-06	0.00E+00
B3	Material Handling	Area	810785.3	825025.9	10	10	5	0.5	124.37	0700-2300 (daytime) 2300-0700 (nighttime)	3.85E-05	4.82E-05	1.82E-05	2.28E-05	2.76E-06	3.45E-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	7.27E-05	0.00E+00	1.39E-05	0.00E+00	3.37E-06	0.00E+00
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

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 ^(a)	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
R11	Road dust	Area	810897.5	825096.4	8	140.469	5	0.5	38	0700-2300	4.43E-05	0.00E+00	8.50E-06	0.00E+00	2.06E-06	0.00E+00
R14	Road dust	Area	810922.7	824932.1	8	49.0764	5	0.5	35	0700-2300	3.63E-05	0.00E+00	6.97E-06	0.00E+00	1.69E-06	0.00E+00
R15	Road dust	Area	811058.3	824841.3	8	50.3578	5	0.5	35	0700-2300	3.63E-05	0.00E+00	6.97E-06	0.00E+00	1.69E-06	0.00E+00
R17	Road dust	Area	810955.9	824973.7	8	163.201	5	0.5	123	0700-2300	3.63E-05	0.00E+00	6.97E-06	0.00E+00	1.69E-06	0.00E+00
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 (μm)	Average Particle Size (μm)	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 (μm)	Average Particle Size (μm)	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 (μm)	Average Particle Size (μm)	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 - NO_x, 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
		NO _x	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
		SO ₂	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
		NO _x	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
		SO ₂	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
		NO _x	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
		SO ₂	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
		NO _x	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
		SO ₂	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
		NO _x	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
		SO ₂	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		PSP Emission Rate	
			X1	Y1							Working Hours	Working Hours	Working Hours	Working Hours	Working Hours	Working Hours		
			m	m							g/s	g/s	g/s	g/s	g/s	g/s		
B1_B	Berthing	Point	811058.8	824884.9	0	15	803	0	0.3	0.700-2300	5.97E-02	0.00E+00	1.24E-03	0.00E+00	2.39E-03	0.00E+00	2.33E-03	0.00E+00
B2_B	Berthing	Point	810923.2	824923.7	0	15	803	0	0.3	0.700-2300	5.97E-02	0.00E+00	1.24E-03	0.00E+00	2.39E-03	0.00E+00	2.33E-03	0.00E+00
B3_B	Berthing	Point	810746.6	825019.5	0	15	803	0	0.3	0.700-2300	5.97E-02	0.00E+00	1.24E-03	0.00E+00	2.39E-03	0.00E+00	2.33E-03	0.00E+00
B3_B_N	Berthing (Nighttime)	Point	810746.6	825019.5	0	15	803	0	0.3	2300-0700	0.00E+00	5.97E-02	0.00E+00	1.24E-03	0.00E+00	2.39E-03	0.00E+00	2.33E-03
B3_B	Berthing	Point	810553.4	824979.3	0	9	795	0	0.15	0.700-2300	3.28E-01	0.00E+00	6.71E-03	0.00E+00	1.29E-02	0.00E+00	1.26E-02	0.00E+00
B3_B	Berthing	Point	810989.7	824887.7	0	9	795	0	0.15	0.700-2300	3.28E-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	810906.9	824905.6	0	9	795	0	0.15	0.700-2300	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	0.15	0.700-2300	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	810894.1	824855.9	0	9	795	0	0.15	0.700-2300	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	0.15	0.700-2300	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	0.15	0.700-2300	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	810890.9	824803.4	0	9	795	0	0.15	0.700-2300	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	810892.3	824782.8	0	9	795	0	0.15	0.700-2300	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	0.15	0.700-2300	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	0.15	0.700-2300	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	0.15	0.700-2300	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	0.15	0.700-2300	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	0.15	0.700-2300	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	824666.4	0	9	795	0	0.15	0.700-2300	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	0.15	0.700-2300	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	810957.3	824630.8	0	9	795	0	0.15	0.700-2300	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	810968.0	824613.9	0	9	795	0	0.15	0.700-2300	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	0.15	0.700-2300	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	824578.9	0	9	795	0	0.15	0.700-2300	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	811004.4	824562.5	0	9	795	0	0.15	0.700-2300	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	811026.6	824546.8	0	9	795	0	0.15	0.700-2300	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	0.15	0.700-2300	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	811044.8	824512.9	0	9	795	0	0.15	0.700-2300	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	0.15	0.700-2300	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	811072.6	824481.6	0	9	795	0	0.15	0.700-2300	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	0.15	0.700-2300	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	0.15	0.700-2300	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	0.15	0.700-2300	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	0.15	0.700-2300	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	0.15	0.700-2300	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	0.15	0.700-2300	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	824378.9	0	9	795	0	0.15	0.700-2300	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	811191.4	824364.3	0	9	795	0	0.15	0.700-2300	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	811206.6	824349.7	0	9	795	0	0.15	0.700-2300	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	811221.8	824335.2	0	9	795	0	0.15	0.700-2300	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	824320.6	0	9	795	0	0.15	0.700-2300	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	811006.9	824905.6	0	15	803	0	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	810890.6	824892.5	0	15	803	0	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	810873.5	824881.4	0	15	803	0	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	810856.4	824870.9	0	15	803	0	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	810839.3	824859.4	0	15	803	0	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	810822.2	824848.9	0	15	803	0	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	810805.1	824838.4	0	15	803	0	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	810788.0	824827.9	0	15	803	0	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	810770.9	824817.4	0	15	803	0	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	810753.8	824806.9	0	15	803	0	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	810736.7	824796.4	0	15	803	0	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	810719.6	824785.9	0	15	803	0	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	7.3

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	3.73E-02	0.00E+00
B2_B	Berthing	Point	810923.2	824925.7	0	15	803	8	0.3	0700-2300	3.73E-02	0.00E+00
B3_B	Berthing	Point	810786.6	825019.0	0	15	803	8	0.3	0700-2300	3.73E-02	0.00E+00
B3_B_N	Berthing (nighttime)	Point	810786.6	825019.0	0	15	803	8	0.3	2300-0700	0.00E+00	4.97E-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	24 hours	9.55E-03	4.23E-03
M37	Maneuvering	Point	810890.9	824892.0	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M38	Maneuvering	Point	810873.5	824881.4	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M39	Maneuvering	Point	810853.9	824873.9	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M40	Maneuvering	Point	810833.7	824869.4	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M41	Maneuvering	Point	810813.0	824865.9	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M42	Maneuvering	Point	810792.4	824864.8	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M43	Maneuvering	Point	810771.4	824864.2	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M44	Maneuvering	Point	810750.7	824863.6	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M45	Maneuvering	Point	810729.7	824863.2	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M46	Maneuvering	Point	810708.7	824862.7	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M47	Maneuvering	Point	810687.7	824862.2	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M48	Maneuvering	Point	810667.0	824862.5	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M49	Maneuvering	Point	810646.0	824863.0	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M50	Maneuvering	Point	810625.0	824863.6	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M51	Maneuvering	Point	810604.3	824864.0	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M52	Maneuvering	Point	810583.3	824864.5	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M53	Maneuvering	Point	810562.3	824864.9	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M54	Maneuvering	Point	810541.4	824865.3	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M55	Maneuvering	Point	810520.8	824867.9	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M56	Maneuvering	Point	810500.0	824870.6	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M57	Maneuvering	Point	810479.8	824875.0	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M58	Maneuvering	Point	810459.6	824880.8	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M59	Maneuvering	Point	810439.8	824886.7	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M60	Maneuvering	Point	810420.7	824895.3	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M61	Maneuvering	Point	810401.5	824904.0	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M62	Maneuvering	Point	810382.9	824913.0	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M63	Maneuvering	Point	810364.4	824922.9	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M64	Maneuvering	Point	810345.8	824932.7	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M65	Maneuvering	Point	810328.1	824943.4	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M66	Maneuvering	Point	810310.3	824954.5	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M67	Maneuvering	Point	810292.7	824965.4	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M68	Maneuvering	Point	810275.0	824976.7	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M69	Maneuvering	Point	810257.7	824988.0	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M70	Maneuvering	Point	810241.6	825001.5	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
M71	Maneuvering	Point	810237.6	825004.9	0	15	803	8	0.3	24 hours	9.55E-03	4.23E-03
Gen	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	811124.7	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	Maneuvering	Point	810952.9	824649.5	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C12	Maneuvering	Point	810934.2	824642.3	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C13	Maneuvering	Point	810915.6	824635.2	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00

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								
C14	Maneuvering	Point	810896.0	824631.4	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C15	Maneuvering	Point	810876.3	824628.1	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C16	Maneuvering	Point	810856.5	824624.8	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C17	Maneuvering	Point	810836.8	824621.5	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C18	Maneuvering	Point	810816.9	824620.4	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C19	Maneuvering	Point	810796.9	824619.9	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C20	Maneuvering	Point	810776.9	824619.3	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C21	Maneuvering	Point	810756.9	824618.7	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C22	Maneuvering	Point	810736.9	824618.3	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C23	Maneuvering	Point	810716.9	824617.8	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C24	Maneuvering	Point	810696.9	824617.4	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C25	Maneuvering	Point	810676.9	824617.1	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
C26	Maneuvering	Point	810656.9	824617.7	0	9	795	8	0.15	0700-2300	1.11E-04	0.00E+00
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	0700-2300	9.33E-02	0.00E+00
Gen2	NSA Generator (500kW)	Point	810862.6	825045.8	5	2.5	766	98.8	0.16	0700-2300	9.33E-02	0.00E+00
Gen3	NSA Generator (100 kW)	Point	810862.6	825045.8	5	2.12	756	29.5	0.11	0700-2300	2.07E-02	0.00E+00

Note:

(a) Based on historical record from 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:

- It is assumed that there will be 2 barge trips of about 80 minutes of maneuvering time each night (i.e. 1.33 hours/night) from 2300-0700.
- It is assumed that the barge will be at berth B3 for the remaining time each night (i.e. 6.66 hours/night) from 2300-0700.

(b)

The berth at the C&DMSF will not be used for TMFB operation during the extended operation. 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 TMFB

Sources	Model Input ID	X	Y	Elevation	RSP Emission	FSP Emission	NOx Emission	SO2 Emission	Discharge Height	Temp	Exit Velocity	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 ^(c)	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 ^(b)	SC	810840.0	825219.0	5	0.0001	0.0001	0.0078	0.0013	30	353	9.0	1	0700-1900
EcoPark SSK ^(a)	SSK	810768.0	825253.0	5	0.034	0.034	0.99	0.46	30	353	16.9	1.8	0700-1900
EcoPark (Lot P6&P7) ^(d)	E2_3	810895.1	825468.6	5	0.42	0.42	1.5	1.277	30	353	9.0	1	0700-1900
EcoPark (Lot P1) ^(d)	E2_5	810912.7	825600.2	5	0.42	0.42	1.5	1.277	30	353	9.0	1	0700-1900
K Wah	KW1	810880.6	825301.2	5	0.03	0.03			18	298	12.2	0.25	24 hours
K Wah	KW2	810890.4	825301.0	5	0.03	0.03			18	298	12.2	0.25	24 hours
K Wah	KW3	810894.6	825297.3	5	0.03	0.03			18	298	12.2	0.25	24 hours
K Wah	KW11	810883.8	825295.6	5	0.021	0.021			9.4	298	4.3	0.35	24 hours
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/E)

(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) There may be potential stack emissions from the proposed waste paper recycling facility at Lot P6&P7 or Lot P1 by end of 2019. The maximum NOx emission rate would be 1.5g/s. For RSP, FSP and SO2, the remaining available Ecopark emission quota was assumed as a worst case. Stack parameters were based on those recommended in the relevant Environmental Permit.

(e) Emissions from K Wah at EcoPark are referenced from its Specified Process licence (L-3-24(2)).

(f) The chimney emissions provided are based on available information up to June 2019. It has been assumed in this assessment that the chimney emissions would be the same in the latter part of 2019 (i.e. July to Dec 2019) for the assessment of annual impacts. The chimney emission information and the air quality assessment will be reviewed on an yearly interval (next review by end of June 2019).

Annex A3

Vehicular Emissions from External and Internal Roads

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

0414816 TMFB

Pollutant Name: NOx (g/veh/km)

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	0.062	1.522	1.495	1.933	3.515	5.020	9.493	8.785	12.421	0.430	0.697	0.927	2.093	4.576	7.939	11.598	11.356
17	0.047	1.109	1.087	1.552	2.648	3.669	6.349	5.584	8.075	0.396	0.590	0.795	1.613	3.540	6.122	7.772	7.492
18	0.045	1.071	1.049	1.512	2.568	3.546	6.083	5.318	7.710	0.392	0.579	0.780	1.557	3.415	5.904	7.449	7.165
27	0.037	0.837	0.804	1.250	2.071	2.784	4.506	3.761	5.561	0.360	0.510	0.668	1.170	2.549	4.399	5.537	5.230
28	0.037	0.818	0.784	1.230	2.032	2.724	4.388	3.646	5.401	0.357	0.504	0.659	1.140	2.481	4.284	5.393	5.085
29	0.036	0.801	0.765	1.212	1.995	2.667	4.276	3.539	5.251	0.354	0.498	0.650	1.111	2.420	4.178	5.259	4.949
30	0.035	0.784	0.747	1.195	1.959	2.613	4.172	3.438	5.110	0.351	0.493	0.641	1.086	2.364	4.083	5.132	4.821
31	0.035	0.764	0.719	1.179	1.926	2.558	4.073	3.343	4.977	0.349	0.488	0.633	1.059	2.306	3.986	5.013	4.700
32	0.034	0.749	0.703	1.167	1.894	2.510	3.980	3.253	4.852	0.346	0.483	0.625	1.044	2.276	3.935	4.901	4.587
33	0.034	0.735	0.688	1.156	1.864	2.464	3.892	3.169	4.734	0.344	0.479	0.617	1.030	2.247	3.886	4.794	4.479
34	0.033	0.721	0.674	1.145	1.835	2.420	3.809	3.089	4.622	0.342	0.474	0.610	1.016	2.218	3.837	4.693	4.377
35	0.033	0.709	0.660	1.134	1.807	2.379	3.730	3.014	4.516	0.339	0.470	0.604	1.002	2.190	3.789	4.598	4.281
36	0.033	0.697	0.648	1.124	1.781	2.339	3.655	2.942	4.415	0.337	0.466	0.597	0.989	2.162	3.743	4.507	4.189
37	0.032	0.685	0.635	1.114	1.756	2.301	3.583	2.874	4.319	0.335	0.462	0.592	0.976	2.135	3.697	4.420	4.102
38	0.032	0.674	0.624	1.104	1.731	2.264	3.515	2.809	4.228	0.333	0.458	0.586	0.963	2.109	3.652	4.338	4.019
39	0.031	0.664	0.613	1.095	1.708	2.229	3.450	2.748	4.141	0.331	0.454	0.581	0.950	2.083	3.608	4.259	3.939
40	0.031	0.654	0.602	1.086	1.686	2.196	3.387	2.689	4.058	0.330	0.451	0.576	0.938	2.057	3.565	4.184	3.863
41	0.031	0.645	0.592	1.077	1.664	2.163	3.328	2.633	3.979	0.328	0.447	0.572	0.926	2.032	3.523	4.112	3.791
42	0.030	0.636	0.582	1.068	1.643	2.132	3.271	2.579	3.903	0.326	0.444	0.568	0.914	2.008	3.482	4.043	3.721
43	0.030	0.627	0.573	1.060	1.624	2.103	3.216	2.528	3.830	0.325	0.440	0.564	0.903	1.984	3.441	3.977	3.655
44	0.030	0.618	0.564	1.052	1.604	2.074	3.164	2.479	3.761	0.323	0.437	0.560	0.892	1.960	3.402	3.913	3.591
45	0.029	0.610	0.556	1.044	1.586	2.046	3.113	2.432	3.694	0.322	0.434	0.557	0.881	1.938	3.364	3.853	3.530
50	0.028	0.575	0.518	1.008	1.502	1.922	2.888	2.222	3.396	0.316	0.419	0.545	0.831	1.832	3.185	3.581	3.256
51	0.028	0.574	0.516	1.002	1.501	1.921	2.848	2.185	3.386	0.315	0.416	0.544	0.822	1.813	3.153	3.532	3.242
52	0.028	0.574	0.515	0.995	1.500	1.920	2.809	2.149	3.376	0.314	0.414	0.543	0.813	1.794	3.121	3.485	3.229
53	0.028	0.574	0.513	0.989	1.499	1.920	2.771	2.115	3.367	0.313	0.411	0.542	0.804	1.775	3.090	3.440	3.216
54	0.028	0.573	0.512	0.983	1.499	1.919	2.735	2.081	3.358	0.313	0.409	0.542	0.795	1.757	3.060	3.396	3.203

Year	NO2/NO x ratio	NO/NOx ratio
2019		
PC	0.052	0.948
LGV3	0.065	0.915
LGV4	0.065	0.915
PLB	0.072	0.928
LGV6	0.243	0.757
HGV7	0.267	0.733
HGV8	0.104	0.896
FBDD	0.123	0.877
MC	0.050	0.950
TAXI	0.020	0.980
PV4	0.174	0.826
PV5	0.248	0.752
NFB6	0.266	0.734
NFB7	0.263	0.747
NFB8	0.075	0.925
FBSD	0.090	0.910
HGV8b	0.134	0.866

EMFAC-HK Model (v 3.4) Key Assumptions:

- Mode: EMFAC
- Calendar Year 2019
- Temperature and relative humidity 24 degree C, 77% (2017 average at Tuen Mun Weather Station)
- Vehicle Population (external roads) Default
- Vehicle Population (internal roads All HGV8 (year 2019) are of Euro V standard
- Vehicle Accrual Default
- Trips: Default (not used. No starting emissions as parking restrictions apply for all identified major roads within the Study Arc
- 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	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	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	288	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	5	4	4	4
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	6	5	6	6	6	6	6	6	5	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
Total Flow (veh)		61	33	30	24	24	47	113	331	1367	1643	1561	1464	1353	1281	1501	1480	1486	1437	1338	612	518	226	141	98

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	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.033	0.037	0.037	0.033	0.031	0.030	0.030	0.031	0.031	0.033	0.036	0.035	0.031	0.031	0.028	0.028	0.028	
LGV3	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.709	0.818	0.837	0.709	0.645	0.636	0.618	0.645	0.645	0.721	0.801	0.764	0.654	0.654	0.575	0.574	0.574	
LGV4	0.515	0.513	0.513	0.513	0.513	0.513	0.516	0.660	0.784	0.804	0.660	0.592	0.582	0.564	0.592	0.592	0.674	0.765	0.719	0.602	0.602	0.518	0.516	0.515	
PLB	0.995	0.989	0.989	0.989	0.989	0.989	1.002	1.134	1.230	1.250	1.134	1.077	1.068	1.052	1.077	1.077	1.145	1.212	1.179	1.086	1.086	1.008	1.002	0.995	
LGV6	1.500	1.499	1.499	1.499	1.499	1.499	1.501	1.807	2.032	2.071	1.807	1.664	1.643	1.604	1.664	1.664	1.855	1.985	1.926	1.686	1.686	1.502	1.501	1.500	
HGV7	1.920	1.920	1.920	1.920	1.920	1.920	1.921	2.379	2.724	2.784	2.379	2.163	2.132	2.074	2.163	2.163	2.420	2.667	2.558	2.196	2.196	1.922	1.921	1.920	
HGV8	2.809	2.771	2.771	2.771	2.771	2.771	2.848	3.730	4.388	4.506	3.730	3.328	3.271	3.164	3.328	3.328	3.809	4.276	4.073	3.387	3.387	2.888	2.848	2.809	
FBDD	3.376	3.367	3.367	3.367	3.367	3.367	3.368	4.516	5.401	5.561	4.516	3.979	3.903	3.761	3.979	3.979	4.622	5.251	4.977	4.058	4.058	3.396	3.386	3.376	
MC	0.314	0.313	0.313	0.313	0.313	0.313	0.315	0.339	0.357	0.360	0.339	0.328	0.326	0.323	0.328	0.328	0.342	0.354	0.349	0.330	0.330	0.316	0.315	0.314	
TAXI	0.414	0.411	0.411	0.411	0.411	0.411	0.416	0.470	0.504	0.510	0.470	0.447	0.444	0.437	0.447	0.447	0.474	0.498	0.488	0.451	0.451	0.419	0.416	0.414	
PV4	0.543	0.542	0.542	0.542	0.542	0.542	0.544	0.604	0.659	0.668	0.604	0.572	0.568	0.560	0.572	0.572	0.610	0.650	0.633	0.576	0.576	0.545	0.544	0.543	
PV5	0.813	0.804	0.804	0.804	0.804	0.804	0.822	1.002	1.140	1.170	1.002	0.926	0.914	0.892	0.926	0.926	1.016	1.111	1.059	0.938	0.938	0.831	0.822	0.813	
NFB6	1.794	1.775	1.775	1.775	1.775	1.775	1.813	2.190	2.481	2.549	2.190	2.032	2.008	1.960	2.032	2.032	2.218	2.420	2.306	2.057	2.057	1.832	1.813	1.794	
NFB7	3.121	3.090	3.090	3.090	3.090	3.090	3.153	3.789	4.284	4.399	3.789	3.523	3.482	3.402	3.523	3.523	3.837	4.178	3.986	3.565	3.565	3.185	3.153	3.121	
NFB8	3.485	3.440	3.440	3.440	3.440	3.440	3.532	4.598	5.393	5.537	4.598	4.112	4.043	3.913	4.112	4.112	4.693	5.259	5.013	4.184	4.184	3.581	3.532	3.485	
FBSD	3.229	3.216	3.216	3.216	3.216	3.216	3.242	4.281	5.085	5.230	4.281	3.791	3.721	3.591	3.791	3.791	4.377	4.949	4.700	3.863	3.863	3.256	3.242	3.229	
Total composite emission factor (g/Veh/km)		1.0526	0.8214	0.8816	0.9600	0.8944	0.7529	0.9602	1.1639	2.9408	3.1134	2.3117	2.0425	2.0483	1.9715	2.0983	2.0996	2.3998	2.6276	2.3570	0.9973	0.9914	1.1332	1.2488	1.5068
Total composite emission factor (g/Veh/mile)		1.70	1.32	1.42	1.55	1.44	1.21	1.55	1.88	4.74	5.02	3.73	3.29	3.30	3.18	3.38	3.39	3.87	4.24	3.80	1.61	1.60	1.83	2.01	2.43

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	3	3	3	3	3	3	3	4	3	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	3	3	3	3	3	3	3	4	3	3	3	3	2	
6	HGV7	0	0	0	0	0	0	2	2	64	69	52	38	3	3	3	3	3	4	3	3	3	3	2	
7	HGV8	0	0	0	0	0	0	6	16	396	406	333	52	56	63	54	59	63	65	1	1	1	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	277	265	314	311	324	314	331	2	2	1	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	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	
Total Flow (veh)		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	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.045	0.045	0.045	0.045	0.045	
LGV3	1.071	1.071	1.071	1.071	1.071	1.071	1.071	1.071	1.109	1.109	1.109	1.109	1.109	1.109	1.109	1.109	1.109	1.109	1.109	1.071	1.071	1.071	1.071	1.071	
LGV4	1.049	1.049	1.049	1.049	1.049	1.049	1.049	1.087	1.087	1.087	1.087	1.087	1.087	1.087	1.087	1.087	1.087	1.087	1.087	1.049	1.049	1.049	1.049	1.049	
PLB	1.512	1.512	1.512	1.512	1.512	1.512	1.512	1.552	1.552	1.552	1.552	1.552	1.552	1.552	1.552	1.552	1.552	1.552	1.512	1.512	1.512	1.512	1.512	1.512	
LGV6	2.568	2.568	2.568	2.568	2.568	2.568	2.568	2.648	2.648	2.648	2.648	2.648	2.648	2.648	2.648	2.648	2.648	2.648	2.648	2.568	2.568	2.568	2.568	2.568	
HGV7	3.546	3.546	3.546	3.546	3.546	3.546	3.546	3.669	3.669	3.669	3.669	3.669	3.669	3.669	3.669	3.669	3.669	3.669	3.669	3.546	3.546	3.546	3.546	3.546	
HGV8	6.083	6.083	6.083	6.083	6.083	6.083	6.083	6.349	6.349	6.349	6.349	6.349	6.349	6.349	6.349	6.349	6.349	6.349	6.083	6.083	6.083	6.083	6.083	6.083	
FBDD	7.710	7.710	7.710	7.710	7.710	7.710	7.710	8.075	8.075	8.075	8.075	8.075	8.075	8.075	8.075	8.075	8.075	8.075	8.075	7.710	7.710	7.710	7.710	7.710	
MC	0.392	0.392	0.392	0.392	0.392	0.392	0.392	0.396	0.396	0.396	0.396	0.396	0.396	0.396	0.396	0.396	0.396	0.396	0.392	0.392	0.392	0.392	0.392		
TAXI	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.579	0.579	0.579	0.579	0.579		
PV4	0.780	0.780	0.780	0.780	0.780	0.780	0.780	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.780	0.780	0.780	0.780	0.780		
PV5	1.557	1.557	1.557	1.557	1.557	1.557	1.557	1.613	1.613	1.613	1.613	1.613	1.613	1.613	1.613	1.613	1.613	1.613	1.557	1.557	1.557	1.557	1.557		
NFB6	3.415	3.415	3.415	3.415	3.415	3.415	3.415	3.540	3.540	3.540	3.540	3.540	3.540	3.540	3.540	3.540	3.540	3.540	3.415	3.415	3.415	3.415	3.415	3.415	
NFB7	5.904	5.904	5.904	5.904	5.904	5.904	5.904	6.122	6.122	6.122	6.122	6.122	6.122	6.122	6.122	6.122	6.122	6.122	5.904	5.904	5.904	5.904	5.904	5.904	
NFB8	7.449	7.449	7.449	7.449	7.449	7.449	7.449	7.772	7.772	7.772	7.772	7.772	7.772	7.772	7.772	7.772	7.772	7.772	7.449	7.449	7.449	7.449	7.449	7.449	
FBSD	7.165	7.165	7.165	7.165	7.165	7.165	7.165	7.492	7.492	7.492	7.492	7.492	7.492	7.492	7.492	7.492	7.492	7.492	7.165	7.165	7.165	7.165	7.165	7.165	
Total composite emission factor (g/Veh/km)		0.9066	0.7718	0.8929	0.5652	0.5652	0.5652	3.2663	3.6330	5.7318	5.7132	5.5236	5.5914	5.6190	5.4926	5.5027	5.5912	5.5918	5.5027	5.4854	1.1439	1.3283	1.2942	0.8800	0.8656
Total composite emission factor (g/Veh/mile)		1.46	1.24	1.44	0.91	0.91	0.91	5.27	5.86	9.24	9.21	8.91	9.02	9.06	8.86	8.88	9.02	9.02	8.88	1.85	2.14	2.09	1.42	1.40	

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	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	3	18	222	295	217	202	193	169	198	208	209	188	149	15	11	3	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	
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	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	6	5	4	4	4
10	TAXI	7	4	5	3	4	6	14	62	84	91	95	100	89	84	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
Total Flow (veh)		48	26	24	21	21	44	98	299	884	1144	1136	1079	1012	934	1093	1088	1076	1029	907	583	494	207	124	85

NOx 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	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.032	0.033	0.033	0.033	0.030	0.030	0.031	0.031	0.033	0.036	0.035	0.031	0.030	0.028	0.028	0.028	0.028
LGV3	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.685	0.709	0.709	0.709	0.618	0.618	0.627	0.645	0.645	0.721	0.801	0.764	0.645	0.618	0.575	0.574	0.574	
LGV4	0.515	0.513	0.513	0.513	0.513	0.513	0.516	0.635	0.660	0.660	0.660	0.564	0.564	0.573	0.592	0.592	0.674	0.765	0.719	0.592	0.564	0.518	0.516	0.515	
PLB	0.995	0.989	0.989	0.989	0.989	0.989	1.002	1.114	1.134	1.134	1.134	1.052	1.052	1.060	1.077	1.077	1.145	1.212	1.179	1.077	1.052	1.008	1.002	0.995	
LGV6	1.500	1.499	1.499	1.499	1.499	1.499	1.501	1.756	1.807	1.807	1.807	1.604	1.604	1.624	1.664	1.664	1.835	1.995	1.926	1.664	1.604	1.502	1.501	1.500	
HGV7	1.920	1.920	1.920	1.920	1.920	1.920	1.921	2.301	2.379	2.379	2.379	2.074	2.074	2.103	2.163	2.163	2.420	2.667	2.558	2.163	2.074	1.922	1.921	1.920	
HGV8	2.809	2.771	2.771	2.771	2.771	2.771	2.848	3.583	3.730	3.730	3.730	3.164	3.164	3.216	3.328	3.328	3.809	4.276	4.073	3.328	3.164	2.868	2.848	2.809	
FBDD	3.376	3.367	3.367	3.367	3.367	3.367	3.366	4.319	4.516	4.516	4.516	3.761	3.761	3.830	3.979	3.979	4.622	5.251	4.977	3.979	3.761	3.396	3.386	3.376	
MC	0.314	0.313	0.313	0.313	0.313	0.313	0.315	0.335	0.339	0.339	0.339	0.323	0.323	0.325	0.328	0.328	0.342	0.354	0.349	0.328	0.323	0.316	0.315	0.314	
TAXI	0.414	0.411	0.411	0.411	0.411	0.411	0.416	0.462	0.470	0.470	0.470	0.437	0.437	0.440	0.447	0.447	0.474	0.498	0.488	0.447	0.437	0.419	0.416	0.414	
PV4	0.543	0.542	0.542	0.542	0.542	0.542	0.544	0.592	0.604	0.604	0.604	0.560	0.560	0.564	0.572	0.572	0.610	0.650	0.633	0.572	0.560	0.545	0.544	0.543	
PV5	0.813	0.804	0.804	0.804	0.804	0.804	0.822	0.976	1.002	1.002	1.002	0.892	0.892	0.903	0.926	0.926	1.016	1.111	1.059	0.926	0.892	0.831	0.822	0.813	
NFB6	1.794	1.775	1.775	1.775	1.775	1.775	1.813	2.135	2.190	2.190	2.190	1.960	1.960	1.984	2.032	2.032	2.218	2.420	2.306	2.032	1.960	1.832	1.813	1.794	
NFB7	3.121	3.090	3.090	3.090	3.090	3.090	3.153	3.697	3.789	3.789	3.789	3.402	3.402	3.441	3.523	3.523	3.837	4.178	3.986	3.523	3.402	3.185	3.153	3.121	
NFB8	3.485	3.440	3.440	3.440	3.440	3.440	3.532	4.420	4.598	4.598	4.598	3.913	3.913	3.977	4.112	4.112	4.693	5.259	5.013	4.112	3.913	3.581	3.532	3.485	
FBSD	3.229	3.216	3.216	3.216	3.216	3.216	3.242	4.102	4.281	4.281	4.281	3.591	3.591	3.655	3.791	3.791	4.377	4.949	4.700	3.791	3.591	3.256	3.242	3.229	
Total composite emission factor (g/Veh/km)		1.1984	0.9241	0.9748	1.0490	0.9740	0.7812	0.8621	1.0104	2.0387	2.2555	1.9496	1.6351	1.6997	1.6959	1.7893	1.7867	2.0225	2.1863	1.7879	0.9971	0.9447	1.1734	1.3524	1.6631
Total composite emission factor (g/Veh/mile)		1.93	1.49	1.57	1.69	1.57	1.26	1.39	1.63	3.29	3.64	3.14	2.64	2.74	2.74	2.89	2.88	3.26	3.53	2.88	1.61	1.52	1.89	2.18	2.68

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

District: Tuen Mun Fill Bank
 Road Section TMS_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	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	7	6	
5	LGV6	1	1	1	3	2	7	10	14	32	34	49	47	44	42	48	47	48	47	44	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	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	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	11	9	8	8	7
Total Flow (veh)		40	25	23	21	21	44	97	286	741	845	832	801	744	693	803	804	768	755	798	552	468	186	104	71

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	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.033	0.033	0.033	0.034	0.030	0.030	0.030	0.031	0.030	0.034	0.034	0.034	0.033	0.033	0.028	0.028	0.028	0.028
LGV3	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.709	0.721	0.721	0.735	0.636	0.636	0.636	0.645	0.618	0.735	0.735	0.735	0.721	0.721	0.575	0.574	0.574	0.574
LGV4	0.515	0.513	0.513	0.513	0.513	0.513	0.516	0.660	0.674	0.674	0.688	0.582	0.582	0.582	0.592	0.564	0.688	0.688	0.688	0.674	0.674	0.518	0.516	0.515	0.515
PLB	0.995	0.989	0.989	0.989	0.989	0.989	1.002	1.134	1.145	1.145	1.156	1.068	1.068	1.068	1.077	1.052	1.156	1.156	1.156	1.145	1.145	1.008	1.002	0.995	0.995
LGV6	1.500	1.499	1.499	1.499	1.499	1.499	1.501	1.807	1.835	1.835	1.864	1.643	1.643	1.643	1.664	1.604	1.864	1.864	1.864	1.835	1.835	1.502	1.501	1.500	1.500
HGV7	1.920	1.920	1.920	1.920	1.920	1.920	1.921	2.379	2.420	2.420	2.464	2.132	2.132	2.132	2.163	2.074	2.464	2.464	2.464	2.420	2.420	1.922	1.921	1.920	1.920
HGV8	2.809	2.771	2.771	2.771	2.771	2.771	2.848	3.730	3.809	3.809	3.892	3.271	3.271	3.271	3.328	3.164	3.892	3.892	3.892	3.809	3.809	2.868	2.868	2.809	2.809
FBDD	3.376	3.367	3.367	3.367	3.367	3.367	3.366	4.516	4.622	4.622	4.734	3.903	3.903	3.903	3.979	3.761	4.734	4.734	4.734	4.622	4.622	3.396	3.386	3.376	3.376
MC	0.314	0.313	0.313	0.313	0.313	0.313	0.315	0.339	0.342	0.342	0.344	0.326	0.326	0.326	0.323	0.344	0.344	0.344	0.342	0.342	0.316	0.315	0.314	0.314	
TAXI	0.414	0.411	0.411	0.411	0.411	0.411	0.416	0.470	0.474	0.474	0.479	0.444	0.444	0.444	0.447	0.437	0.479	0.479	0.479	0.474	0.474	0.419	0.416	0.414	0.414
PV4	0.543	0.542	0.542	0.542	0.542	0.542	0.544	0.604	0.610	0.610	0.617	0.568	0.568	0.568	0.572	0.560	0.617	0.617	0.617	0.610	0.610	0.545	0.544	0.543	0.543
PV5	0.813	0.804	0.804	0.804	0.804	0.804	0.822	1.002	1.016	1.016	1.030	0.914	0.914	0.914	0.926	0.892	1.030	1.030	1.030	1.016	1.016	0.831	0.822	0.813	0.813
NFB6	1.794	1.775	1.775	1.775	1.775	1.775	1.813	2.190	2.218	2.218	2.247	2.008	2.008	2.008	2.032	1.960	2.247	2.247	2.247	2.218	2.218	1.832	1.813	1.794	1.794
NFB7	3.121	3.090	3.090	3.090	3.090	3.090	3.153	3.789	3.837	3.837	3.886	3.482	3.482	3.482	3.523	3.402	3.886	3.886	3.886	3.837	3.837	3.185	3.153	3.121	3.121
NFB8	3.485	3.440	3.440	3.440	3.440	3.440	3.532	4.598	4.693	4.693	4.794	4.043	4.043	4.043	4.112	3.913	4.794	4.794	4.794	4.693	4.693	3.581	3.532	3.485	3.485
FBSD	3.229	3.216	3.216	3.216	3.216	3.216	3.242	4.281	4.377	4.377	4.479	3.721	3.721	3.721	3.791	3.591	4.479	4.479	4.479	4.377	4.377	3.256	3.242	3.229	3.229
Total composite emission factor (g/Veh/km)		1.3369	0.9600	1.0159	1.0490	0.9740	0.7812	0.8707	1.0156	1.8212	1.8728	1.5416	1.2803	1.3502	1.3281	1.3840	1.3298	1.5211	1.5057	1.5699	1.1108	1.1130	1.2355	1.5146	1.8987
Total composite emission factor (g/Veh/mile)		2.16	1.55	1.64	1.69	1.57	1.26	1.40	1.64	2.94	3.02	2.49	2.07	2.18	2.23	2.14	2.45	2.43	2.53	1.79	1.80	1.99	2.44	3.06	3.06

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	7	5	7	7	5	1	0	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	1	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	0	6	13	14	8	7	7	8	7	7	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		
Total Flow (veh)		0	0	0	0	0	0	2	21	47	55	31	24	24	24	31	24	24	31	31	14	3	0	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	0.031	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	0.031
LGV3	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	0.664
LGV4	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613
PLB	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095
LGV6	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.708
HGV7	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229
HGV8	3.450	3.450	3.450	3.450	3.450	3.450	3.450	3.450	3.450	3.450	3.450	3.450	3.450	3.450	3.450	3.450	3.450	3.450	3.450	3.450	3.450	3.450	3.450	3.450	3.450
FBDD	4.141	4.141	4.141	4.141	4.141	4.141	4.141	4.141	4.141	4.141	4.141	4.141	4.141	4.141	4.141	4.141	4.141	4.141	4.141	4.141	4.141	4.141	4.141	4.141	4.141
MC	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331
TAXI	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454
PV4	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581
PV5	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
NFB6	2.083	2.083	2.083	2.083	2.083	2.083	2.083	2.083	2.083	2.083	2.083	2.083	2.083	2.083	2.083	2.083	2.083	2.083	2.083	2.083	2.083	2.083	2.083	2.083	2.083
NFB7	3.608	3.608	3.608	3.608	3.608	3.608	3.608	3.608	3.608	3.608	3.608	3.608	3.608	3.608	3.608	3.608	3.608	3.608	3.608	3.608	3.608	3.608	3.608	3.608	3.608
NFB8	4.259	4.259	4.259	4.259	4.259	4.259	4.259	4.259	4.259	4.259	4.259	4.259	4.259	4.259	4.259	4.259	4.259	4.259	4.259	4.259	4.259	4.259	4.259	4.259	4.259
FBSD	3.939	3.939	3.939	3.939	3.939	3.939	3.939	3.939	3.939	3.939	3.939	3.939	3.939	3.939	3.939	3.939	3.939	3.939	3.939	3.939	3.939	3.939	3.939	3.939	3.939
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2428	1.9057	1.8390	1.7735	1.7683	1.9141	1.9141	1.9141	1.7683	1.9141	1.9141	1.7683	1.7683	1.4276	2.3102	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.39	3.07	2.97	2.86	2.85	3.09	3.09	3.09	2.85	3.09	3.09	2.85	2.85	2.30	3.73	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	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		
4	PLB	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0		
5	LGV8	0	0	0	0	0	0	0	0	1	2	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	11	11	13	13	2	0	0	0		
7	HGV8	0	0	0	0	0	0	0	7	15	16	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		
Total Flow (veh)		0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	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	0.032	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	
LGV3	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	
LGV4	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	
PLB	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	
LGV8	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	
HGV7	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	
HGV8	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	
FBDD	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	
MC	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	
TAXI	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	
PV4	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	
PV5	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	
NFB6	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	
NFB7	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	
NFB8	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	
FBSD	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.2448	2.0209	1.8152	1.7561	1.6949	1.9056	1.8558	1.8076	1.6949	1.9725	1.6812	1.7424	1.6949	1.2647	2.3538	0.0317	0.0000	
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.39	3.26	2.93	2.83	2.73	3.07	2.99	2.92	2.73	3.18	2.71	2.81	2.73	2.04	3.80	0.05	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	2	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		
4	PLB	0	0	0	0	0	0	0	0	4	4	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		
6	HGV7	0	0	0	0	0	0	0	9	18	21	13	11	11	11	11	11	13	13	2	0	0	0		
7	HGV8	0	0	0	0	0	0	7	15	16	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		
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		
Total Flow (veh)		0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	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	0.032	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	
LGV3	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674	
LGV4	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	
PLB	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	
LGV6	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.731	
HGV7	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	2.264	
HGV8	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	
FBDD	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	4.228	
MC	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	
TAXI	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	
PV4	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	
PV5	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.963	
NFB6	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	2.109	
NFB7	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	3.652	
NFB8	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	4.338	
FBSD	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	4.019	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.2448	2.0209	1.8152	1.7561	1.6949	1.9056	1.8558	1.8076	1.6949	1.9725	1.6812	1.7424	1.6949	1.2647	2.3538	0.0317	0.0000	
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.39	3.26	2.93	2.83	2.73	3.07	2.99	2.92	2.73	3.18	2.71	2.81	2.73	2.04	3.80	0.05	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	LG3V	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	LG4V	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	LG6V	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	5	6	6	6	6	6	6	5	4	4	4
10	TAXI	4	3	3	2	3	5	12	52	67	72	74	81	73	67	74	75	74	76	72	63	23	5	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	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
Total Flow (veh)		35	21	19	17	17	37	85	228	595	684	720	700	649	600	693	704	676	646	688	478	420	168	91	69

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	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.033	0.033	0.033	0.034	0.030	0.030	0.031	0.030	0.034	0.034	0.034	0.034	0.033	0.033	0.028	0.028	0.028	
LG3V	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.709	0.721	0.721	0.735	0.636	0.636	0.636	0.645	0.618	0.735	0.735	0.735	0.721	0.721	0.575	0.574	0.574	
LG4V	0.515	0.513	0.513	0.513	0.513	0.513	0.516	0.660	0.674	0.674	0.688	0.582	0.582	0.582	0.564	0.688	0.688	0.688	0.688	0.674	0.674	0.518	0.516	0.515	
PLB	0.995	0.989	0.989	0.989	0.989	0.989	1.002	1.134	1.145	1.145	1.156	1.068	1.068	1.068	1.077	1.052	1.156	1.156	1.156	1.145	1.145	1.008	1.002	0.995	
LG6V	1.500	1.499	1.499	1.499	1.499	1.499	1.501	1.807	1.835	1.835	1.864	1.643	1.643	1.643	1.664	1.604	1.864	1.864	1.864	1.835	1.835	1.502	1.501	1.500	
HGV7	1.920	1.920	1.920	1.920	1.920	1.920	1.921	2.379	2.420	2.420	2.464	2.132	2.132	2.132	2.163	2.074	2.464	2.464	2.464	2.420	2.420	1.922	1.921	1.920	
HGV8	2.809	2.771	2.771	2.771	2.771	2.771	2.848	3.730	3.809	3.809	3.892	3.271	3.271	3.271	3.328	3.164	3.892	3.892	3.892	3.809	3.809	2.886	2.848	2.809	
FBDD	3.376	3.367	3.367	3.367	3.367	3.367	3.386	4.516	4.622	4.622	4.734	3.903	3.903	3.903	3.979	3.761	4.734	4.734	4.734	4.622	4.622	3.396	3.386	3.376	
MC	0.314	0.313	0.313	0.313	0.313	0.313	0.315	0.339	0.342	0.342	0.344	0.326	0.326	0.326	0.328	0.344	0.344	0.344	0.344	0.342	0.342	0.316	0.315	0.314	
TAXI	0.414	0.411	0.411	0.411	0.411	0.411	0.416	0.470	0.474	0.474	0.479	0.444	0.444	0.444	0.447	0.437	0.479	0.479	0.479	0.474	0.474	0.419	0.416	0.414	
PV4	0.543	0.542	0.542	0.542	0.542	0.542	0.544	0.604	0.610	0.610	0.617	0.568	0.568	0.568	0.572	0.560	0.617	0.617	0.617	0.610	0.610	0.545	0.544	0.543	
PV5	0.813	0.804	0.804	0.804	0.804	0.804	0.822	1.002	1.016	1.016	1.030	0.914	0.914	0.914	0.926	0.892	1.030	1.030	1.030	1.016	1.016	0.831	0.822	0.813	
NFB6	1.794	1.775	1.775	1.775	1.775	1.775	1.813	2.190	2.218	2.218	2.247	2.008	2.008	2.008	2.032	1.960	2.247	2.247	2.247	2.218	2.218	1.832	1.813	1.794	
NFB7	3.121	3.090	3.090	3.090	3.090	3.090	3.153	3.789	3.837	3.837	3.886	3.482	3.482	3.482	3.523	3.402	3.886	3.886	3.886	3.837	3.837	3.185	3.153	3.121	
NFB8	3.485	3.440	3.440	3.440	3.440	3.440	3.532	4.598	4.693	4.693	4.794	4.043	4.043	4.043	4.112	3.913	4.794	4.794	4.794	4.693	4.693	3.581	3.532	3.485	
FBSD	3.229	3.216	3.216	3.216	3.216	3.216	3.242	4.281	4.377	4.377	4.479	3.721	3.721	3.721	3.791	3.591	4.479	4.479	4.479	4.377	4.377	3.256	3.242	3.229	
Total composite emission factor (g/Veh/km)		1.5129	1.1193	1.1836	1.2667	1.1741	0.8458	0.9382	0.8693	1.7633	1.8293	1.5004	1.2344	1.3139	1.2911	1.3558	1.2962	1.4963	1.4527	1.5325	1.0595	1.0782	1.3338	1.7056	1.9529
Total composite emission factor (g/Veh/mile)		2.44	1.81	1.91	2.04	1.89	1.36	1.51	1.40	2.84	2.95	2.42	1.99	2.12	2.08	2.19	2.09	2.41	2.34	2.47	1.71	1.74	2.15	2.75	3.15

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	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	4	3	2	3	3	3	4	9	14	15	17	15	13	14	16	15	15	16	15	12	10	8	2	
2	LGV3	0	0	0	0	0	1	3	5	8	8	7	7	6	7	7	7	7	7	7	6	5	0	0	
3	LGV4	0	0	0	0	0	1	1	4	6	6	6	6	5	6	6	6	5	6	6	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	
5	LGV5	0	0	0	0	0	1	1	4	6	6	6	5	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	4	5	4	4	5	5	5	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	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	2	1	1	1	5	9	9	10	10	9	9	10	10	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	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	
Total Flow (veh)		5	4	4	4	4	7	10	35	88	94	76	72	67	64	74	72	65	74	74	57	45	17	13	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	
PC	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	
LGV3	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	
PLB	0.719	0.719	0.719	0.719	0.719	0.719	0.719	0.719	0.719	0.719	0.719	0.719	0.719	0.719	0.719	0.719	0.719	0.719	0.719	0.719	0.719	0.719	0.719	0.719	
LGV4	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179	
HGV6	1.926	1.926	1.926	1.926	1.926	1.926	1.926	1.926	1.926	1.926	1.926	1.926	1.926	1.926	1.926	1.926	1.926	1.926	1.926	1.926	1.926	1.926	1.926	1.926	
HGV7	2.558	2.558	2.558	2.558	2.558	2.558	2.558	2.558	2.558	2.558	2.558	2.558	2.558	2.558	2.558	2.558	2.558	2.558	2.558	2.558	2.558	2.558	2.558	2.558	
HGV8	4.073	4.073	4.073	4.073	4.073	4.073	4.073	4.073	4.073	4.073	4.073	4.073	4.073	4.073	4.073	4.073	4.073	4.073	4.073	4.073	4.073	4.073	4.073	4.073	
FBDD	4.977	4.977	4.977	4.977	4.977	4.977	4.977	4.977	4.977	4.977	4.977	4.977	4.977	4.977	4.977	4.977	4.977	4.977	4.977	4.977	4.977	4.977	4.977	4.977	
MC	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	
TAXI	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	
PV4	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	
PV5	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	
NFB6	2.306	2.306	2.306	2.306	2.306	2.306	2.306	2.306	2.306	2.306	2.306	2.306	2.306	2.306	2.306	2.306	2.306	2.306	2.306	2.306	2.306	2.306	2.306	2.306	
NFB7	3.986	3.986	3.986	3.986	3.986	3.986	3.986	3.986	3.986	3.986	3.986	3.986	3.986	3.986	3.986	3.986	3.986	3.986	3.986	3.986	3.986	3.986	3.986	3.986	
NFB8	5.013	5.013	5.013	5.013	5.013	5.013	5.013	5.013	5.013	5.013	5.013	5.013	5.013	5.013	5.013	5.013	5.013	5.013	5.013	5.013	5.013	5.013	5.013	5.013	
FBSD	4.700	4.700	4.700	4.700	4.700	4.700	4.700	4.700	4.700	4.700	4.700	4.700	4.700	4.700	4.700	4.700	4.700	4.700	4.700	4.700	4.700	4.700	4.700	4.700	
Total composite emission factor (g/Veh/km)		0.1255	0.1482	0.2615	0.1482	0.1482	0.5716	0.5563	1.3345	2.2677	2.3239	1.8594	1.8696	1.8902	1.8509	1.8541	1.8696	1.7169	1.8541	1.8541	1.5603	1.4260	0.4324	0.2092	0.0349
Total composite emission factor (g/Veh/mile)		0.20	0.24	0.42	0.24	0.24	0.92	0.90	2.15	3.66	3.75	3.00	3.02	3.05	2.99	2.99	3.02	2.77	2.99	2.99	2.52	2.30	0.70	0.34	0.06

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

District: Tuen Mun Fill Bank
 Road Section: TM13_Lung Yu 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	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	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	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	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	0	
10	TAXI	2	1	1	0	0	0	5	12	19	21	12	11	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	
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	
Total Flow (veh)		7	4	2	2	0	4	31	70	169	184	118	103	102	97	112	109	109	110	112	64	35	16	13	4

NOx 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	0.033	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	0.034	0.034	0.034	0.034	0.034	0.033
LGV3	0.697	0.697	0.697	0.697	0.697	0.697	0.721	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.749	0.749	0.749	0.735	0.735	0.735	0.735	0.697	
LGV4	0.648	0.648	0.648	0.648	0.648	0.648	0.674	0.688	0.688	0.688	0.688	0.688	0.688	0.688	0.688	0.688	0.703	0.703	0.703	0.688	0.688	0.688	0.688	0.648	
PLB	1.124	1.124	1.124	1.124	1.124	1.124	1.145	1.156	1.156	1.156	1.156	1.156	1.156	1.156	1.156	1.156	1.167	1.167	1.167	1.156	1.156	1.156	1.156	1.124	
LGV6	1.781	1.781	1.781	1.781	1.781	1.781	1.835	1.864	1.864	1.864	1.864	1.864	1.864	1.864	1.864	1.864	1.894	1.894	1.894	1.864	1.864	1.864	1.864	1.781	
HGV7	2.339	2.339	2.339	2.339	2.339	2.339	2.420	2.464	2.464	2.464	2.464	2.464	2.464	2.464	2.464	2.464	2.510	2.510	2.510	2.464	2.464	2.464	2.464	2.339	
HGV8	3.655	3.655	3.655	3.655	3.655	3.655	3.809	3.892	3.892	3.892	3.892	3.892	3.892	3.892	3.892	3.892	3.980	3.980	3.980	3.892	3.892	3.892	3.892	3.655	
FBDD	4.415	4.415	4.415	4.415	4.415	4.415	4.622	4.734	4.734	4.734	4.734	4.734	4.734	4.734	4.734	4.734	4.852	4.852	4.852	4.734	4.734	4.734	4.734	4.415	
MC	0.337	0.337	0.337	0.337	0.337	0.337	0.342	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.346	0.346	0.346	0.344	0.344	0.344	0.344	0.337	
TAXI	0.466	0.466	0.466	0.466	0.466	0.466	0.474	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.483	0.483	0.483	0.479	0.479	0.479	0.479	0.466	
PV4	0.597	0.597	0.597	0.597	0.597	0.597	0.610	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.625	0.625	0.625	0.617	0.617	0.617	0.617	0.597	
PV5	0.989	0.989	0.989	0.989	0.989	0.989	1.016	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.044	1.044	1.044	1.030	1.030	1.030	1.030	0.989	
NFB6	2.162	2.162	2.162	2.162	2.162	2.162	2.218	2.247	2.247	2.247	2.247	2.247	2.247	2.247	2.247	2.247	2.276	2.276	2.276	2.247	2.247	2.247	2.247	2.162	
NFB7	3.743	3.743	3.743	3.743	3.743	3.743	3.837	3.886	3.886	3.886	3.886	3.886	3.886	3.886	3.886	3.886	3.935	3.935	3.935	3.886	3.886	3.886	3.886	3.743	
NFB8	4.507	4.507	4.507	4.507	4.507	4.507	4.693	4.794	4.794	4.794	4.794	4.794	4.794	4.794	4.794	4.794	4.901	4.901	4.901	4.794	4.794	4.794	4.794	4.507	
FBSD	4.189	4.189	4.189	4.189	4.189	4.189	4.377	4.479	4.479	4.479	4.479	4.479	4.479	4.479	4.479	4.479	4.587	4.587	4.587	4.479	4.479	4.479	4.479	4.189	
Total composite emission factor (g/Veh/km)		0.2511	0.3069	0.2491	0.3647	0.0000	0.1986	0.8511	1.1118	1.7626	1.7805	1.6506	1.6066	1.7098	1.6985	1.7048	1.6931	1.7266	1.7112	1.6569	0.7944	0.9429	0.9522	0.4250	0.7771
Total composite emission factor (g/Veh/mile)		0.41	0.49	0.40	0.59	0.00	0.32	1.37	1.79	2.84	2.87	2.66	2.59	2.76	2.74	2.75	2.73	2.78	2.76	2.67	1.28	1.52	1.54	0.69	1.25

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	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	2	2	2	0	2	5	13	73	96	103	167	173	144	137	154	157	153	145	160	144	116	23	5	6	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
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	0
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	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	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	0
7	HGV8	0	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	4	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6	6
9	MC	0	0	0	0	0	0	0	1	1	5	5	5	5	5	5	5	5	5	5	5	5	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	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	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	13	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	11	10	9	9	9	9
15	NFB8	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	11	10	9	9	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	7
Total Flow (veh)		28	17	17	15	17	33	54	158	426	500	602	597	547	503	581	595	567	536	576	414	385	152	78	65	65

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	0:00	
PC	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.033	0.033	0.033	0.034	0.030	0.030	0.030	0.031	0.030	0.034	0.034	0.034	0.033	0.033	0.028	0.028	0.028	0.028	0.028
LGV3	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.709	0.721	0.721	0.735	0.636	0.636	0.636	0.645	0.618	0.735	0.735	0.735	0.721	0.721	0.575	0.574	0.574	0.574	0.574
LGV4	0.515	0.513	0.513	0.513	0.513	0.513	0.516	0.660	0.674	0.674	0.688	0.582	0.582	0.582	0.592	0.564	0.688	0.688	0.688	0.674	0.674	0.518	0.516	0.515	0.515	0.515
PLB	0.985	0.989	0.989	0.989	0.989	0.989	1.002	1.134	1.145	1.145	1.156	1.068	1.068	1.068	1.077	1.052	1.156	1.156	1.156	1.145	1.145	1.008	1.002	0.995	0.995	0.995
LGV6	1.500	1.499	1.499	1.499	1.499	1.499	1.501	1.807	1.835	1.835	1.864	1.643	1.643	1.643	1.664	1.604	1.864	1.864	1.864	1.835	1.835	1.502	1.501	1.500	1.500	1.500
HGV7	1.920	1.920	1.920	1.920	1.920	1.920	1.921	2.379	2.420	2.420	2.464	2.132	2.132	2.132	2.163	2.074	2.464	2.464	2.464	2.420	2.420	1.922	1.921	1.920	1.920	1.920
HGV8	2.809	2.771	2.771	2.771	2.771	2.771	2.848	3.750	3.809	3.809	3.892	3.271	3.271	3.271	3.328	3.164	3.892	3.892	3.892	3.809	3.809	2.888	2.848	2.809	2.809	2.809
FBDD	3.376	3.367	3.367	3.367	3.367	3.367	3.386	4.516	4.622	4.622	4.734	3.903	3.903	3.903	3.979	3.761	4.734	4.734	4.734	4.622	4.622	3.396	3.386	3.376	3.376	3.376
MC	0.314	0.313	0.313	0.313	0.313	0.313	0.315	0.339	0.342	0.342	0.344	0.326	0.326	0.326	0.328	0.323	0.344	0.344	0.344	0.342	0.342	0.316	0.315	0.314	0.314	0.314
TAXI	0.414	0.411	0.411	0.411	0.411	0.411	0.416	0.470	0.474	0.474	0.479	0.444	0.444	0.444	0.447	0.437	0.479	0.479	0.479	0.474	0.474	0.419	0.416	0.414	0.414	0.414
PV4	0.543	0.542	0.542	0.542	0.542	0.544	0.604	0.610	0.610	0.610	0.617	0.568	0.568	0.568	0.572	0.560	0.617	0.617	0.617	0.610	0.610	0.545	0.544	0.543	0.543	0.543
PV5	0.813	0.804	0.804	0.804	0.804	0.804	0.822	1.002	1.016	1.016	1.030	0.914	0.914	0.914	0.926	0.892	1.030	1.030	1.030	1.016	1.016	0.831	0.822	0.813	0.813	0.813
NFB6	1.794	1.775	1.775	1.775	1.775	1.775	1.813	2.190	2.218	2.218	2.247	2.008	2.008	2.008	2.032	1.960	2.247	2.247	2.247	2.218	2.218	1.832	1.813	1.794	1.794	1.794
NFB7	3.121	3.090	3.090	3.090	3.090	3.090	3.153	3.789	3.837	3.837	3.886	3.482	3.482	3.482	3.523	3.402	3.886	3.886	3.886	3.837	3.837	3.185	3.153	3.121	3.121	3.121
NFB8	3.485	3.440	3.440	3.440	3.440	3.440	3.532	4.598	4.693	4.693	4.794	4.043	4.043	4.043	4.112	3.913	4.794	4.794	4.794	4.693	4.693	3.581	3.532	3.485	3.485	3.485
FBSD	3.229	3.216	3.216	3.216	3.216	3.216	3.242	4.281	4.377	4.377	4.479	3.721	3.721	3.721	3.791	3.591	4.479	4.479	4.479	4.377	4.377	3.256	3.242	3.229	3.229	3.229
Total composite emission factor (g/Veh/km)		1.8372	1.3215	1.2971	1.3955	1.1741	0.9284	1.0894	0.7786	1.7769	1.8598	1.4710	1.2091	1.2853	1.2589	1.3309	1.2752	1.4585	1.4065	1.5146	1.1026	1.0921	1.3957	1.9325	2.0338	2.0338
Total composite emission factor (g/Veh/mile)		2.96	2.13	2.09	2.25	1.89	1.50	1.76	1.26	2.87	3.00	2.37	1.95	2.07	2.03	2.06	2.35	2.27	2.44	1.78	1.76	2.25	3.12	3.28	3.28	3.28

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	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	1	1	
10	TAXI	1	0	1	0	0	0	3	9	13	15	2	2	1	2	1	2	1	2	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	
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	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	2	2	2	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	
Total Flow (veh)		5	2	2	2	0	3	19	46	114	125	58	50	53	49	56	56	56	54	54	22	12	5	10	4

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	0.029	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	0.029
LGV3	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610
LGV4	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556
PLB	1.044	1.044	1.044	1.044	1.044	1.044	1.044	1.044	1.044	1.044	1.044	1.044	1.044	1.044	1.044	1.044	1.044	1.044	1.044	1.044	1.044	1.044	1.044	1.044	1.044
LGV6	1.586	1.586	1.586	1.586	1.586	1.586	1.586	1.586	1.586	1.586	1.586	1.586	1.586	1.586	1.586	1.586	1.586	1.586	1.586	1.586	1.586	1.586	1.586	1.586	1.586
HGV7	2.046	2.046	2.046	2.046	2.046	2.046	2.046	2.046	2.046	2.046	2.046	2.046	2.046	2.046	2.046	2.046	2.046	2.046	2.046	2.046	2.046	2.046	2.046	2.046	2.046
HGV8	3.113	3.113	3.113	3.113	3.113	3.113	3.113	3.113	3.113	3.113	3.113	3.113	3.113	3.113	3.113	3.113	3.113	3.113	3.113	3.113	3.113	3.113	3.113	3.113	3.113
FBDD	3.694	3.694	3.694	3.694	3.694	3.694	3.694	3.694	3.694	3.694	3.694	3.694	3.694	3.694	3.694	3.694	3.694	3.694	3.694	3.694	3.694	3.694	3.694	3.694	3.694
MC	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	0.322
TAXI	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434
PV4	0.557	0.557	0.557	0.557	0.557	0.557	0.557	0.557	0.557	0.557	0.557	0.557	0.557	0.557	0.557	0.557	0.557	0.557	0.557	0.557	0.557	0.557	0.557	0.557	0.557
PV5	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881
NFB6	1.938	1.938	1.938	1.938	1.938	1.938	1.938	1.938	1.938	1.938	1.938	1.938	1.938	1.938	1.938	1.938	1.938	1.938	1.938	1.938	1.938	1.938	1.938	1.938	1.938
NFB7	3.364	3.364	3.364	3.364	3.364	3.364	3.364	3.364	3.364	3.364	3.364	3.364	3.364	3.364	3.364	3.364	3.364	3.364	3.364	3.364	3.364	3.364	3.364	3.364	3.364
NFB8	3.853	3.853	3.853	3.853	3.853	3.853	3.853	3.853	3.853	3.853	3.853	3.853	3.853	3.853	3.853	3.853	3.853	3.853	3.853	3.853	3.853	3.853	3.853	3.853	3.853
FBSD	3.530	3.530	3.530	3.530	3.530	3.530	3.530	3.530	3.530	3.530	3.530	3.530	3.530	3.530	3.530	3.530	3.530	3.530	3.530	3.530	3.530	3.530	3.530	3.530	3.530
Total composite emission factor (g/Veh/km)		0.2265	0.3199	0.2318	0.3199	0.0000	0.2231	0.6727	0.9287	1.4329	1.4550	1.7327	1.6389	1.7896	1.7831	1.8671	1.7397	1.7397	1.8407	1.7086	0.6118	0.9815	0.6430	0.4236	0.6816
Total composite emission factor (g/Veh/mile)		0.37	0.52	0.37	0.52	0.00	0.36	1.08	1.50	2.31	2.35	2.79	2.64	2.89	2.88	3.01	2.81	2.81	2.97	2.76	0.99	1.58	1.04	0.68	1.10

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	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	1	1	0	0	0	1	3	6	10	11	15	14	13	13	15	14	15	15	13	8	3	2	0	0
2	LGV3	0	0	0	0	0	0	2	3	5	6	8	7	6	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	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	0
5	LGV6	0	0	0	0	0	0	2	4	5	5	7	5	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	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	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	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	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	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	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	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	0
Total Flow (veh)		2	2	0	0	0	1	12	24	55	59	60	53	49	48	56	53	53	56	58	42	23	11	3	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	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	
PC	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	0.030
LGV3	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618
LGV4	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564
PLB	1.052	1.052	1.052	1.052	1.052	1.052	1.052	1.052	1.052	1.052	1.052	1.052	1.052	1.052	1.052	1.052	1.052	1.052	1.052	1.052	1.052	1.052	1.052	1.052	1.052
LGV6	1.604	1.604	1.604	1.604	1.604	1.604	1.604	1.604	1.604	1.604	1.604	1.604	1.604	1.604	1.604	1.604	1.604	1.604	1.604	1.604	1.604	1.604	1.604	1.604	1.604
HGV7	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074
HGV8	3.164	3.164	3.164	3.164	3.164	3.164	3.164	3.164	3.164	3.164	3.164	3.164	3.164	3.164	3.164	3.164	3.164	3.164	3.164	3.164	3.164	3.164	3.164	3.164	3.164
FBDD	3.761	3.761	3.761	3.761	3.761	3.761	3.761	3.761	3.761	3.761	3.761	3.761	3.761	3.761	3.761	3.761	3.761	3.761	3.761	3.761	3.761	3.761	3.761	3.761	3.761
MC	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323
TAXI	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	0.437
PV4	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560
PV5	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892
NFB6	1.960	1.960	1.960	1.960	1.960	1.960	1.960	1.960	1.960	1.960	1.960	1.960	1.960	1.960	1.960	1.960	1.960	1.960	1.960	1.960	1.960	1.960	1.960	1.960	1.960
NFB7	3.402	3.402	3.402	3.402	3.402	3.402	3.402	3.402	3.402	3.402	3.402	3.402	3.402	3.402	3.402	3.402	3.402	3.402	3.402	3.402	3.402	3.402	3.402	3.402	3.402
NFB8	3.913	3.913	3.913	3.913	3.913	3.913	3.913	3.913	3.913	3.913	3.913	3.913	3.913	3.913	3.913	3.913	3.913	3.913	3.913	3.913	3.913	3.913	3.913	3.913	3.913
FBSD	3.591	3.591	3.591	3.591	3.591	3.591	3.591	3.591	3.591	3.591	3.591	3.591	3.591	3.591	3.591	3.591	3.591	3.591	3.591	3.591	3.591	3.591	3.591	3.591	3.591
Total composite emission factor (g/Veh/km)	0.2335	0.2335	0.0000	0.0000	0.0000	0.0297	0.8084	0.9372	1.4888	1.4876	1.0068	1.0374	1.0020	1.0138	0.9464	1.0374	1.0374	0.9464	1.0041	0.6988	0.6831	0.8733	0.1655	0.0000	
Total composite emission factor (g/Veh/mile)	0.38	0.38	0.00	0.00	0.00	0.05	1.30	1.51	2.40	2.40	1.62	1.67	1.62	1.64	1.53	1.67	1.67	1.53	1.62	1.13	1.10	1.41	0.27	0.00	

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	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	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	0	0	0	0	0	0	0	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	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
Total Flow (veh)		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	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	0.062	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
LGV3	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522
LGV4	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495
PLB	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933
LGV6	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515
HGV7	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020
HGV8	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493
FBDD	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421
MC	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430
TAXI	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697
PV4	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927
PV5	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093
NFB6	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576
NFB7	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939
NFB8	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598
FBSD	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8.8171	8.8143	8.8351	8.8184	8.8330	8.8363	8.8152	8.8341	8.8267	8.8075	8.8396	0.0000	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.22	14.22	14.25	14.22	14.25	14.25	14.22	14.25	14.24	14.21	14.26	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	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	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	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	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	0
5	LGV6	0	0	0	0	0	0	0	0	0	0	44	40	38	32	40	38	42	38	13	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	0	21	118	248	232	214	208	186	224	220	240	210	76	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	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	
Total Flow (veh)		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	0.00
PC	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	0.062
LGV3	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522
LGV4	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495
PLB	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933
LGV6	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515
HGV7	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020
HGV8	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493
FBDD	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421
MC	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430
TAXI	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697
PV4	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927
PV5	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093
NFB6	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576
NFB7	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939
NFB8	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598
FBSD	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356

Total composite emission factor (g/Veh/km)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8.8171	8.8143	8.8351	8.8184	8.8330	8.8363	8.8152	8.8341	8.8267	8.8075	8.8396	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.22	14.22	14.25	14.22	14.25	14.25	14.22	14.25	14.24	14.21	14.26	0.00	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	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	21	44	40	38	36	32	40	38	42	38	13	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	
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	
Total Flow (veh)		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	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	0.062	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
LGV3	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522	1.522
LGV4	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495	1.495
PLB	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933	1.933
LGV6	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515	3.515
HGV7	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020	5.020
HGV8	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493	9.493
FBDD	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.421
MC	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430
TAXI	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697
PV4	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927
PV5	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093
NFB6	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576	4.576
NFB7	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939	7.939
NFB8	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598	11.598
FBSD	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356	11.356
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8.8171	8.8143	8.8351	8.8184	8.8330	8.8363	8.8152	8.8341	8.8267	8.8075	8.8396	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.22	14.22	14.25	14.22	14.25	14.25	14.22	14.25	14.24	14.21	14.26	0.00	0.00	0.00	0.00

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

0414816 TMFB

Pollutant Name: NO2 (g/veh/km)

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	0.003	0.129	0.127	0.140	0.856	1.340	0.992	1.176	1.524	0.021	0.014	0.181	0.519	1.219	2.009	0.866	1.017
17	0.002	0.094	0.092	0.112	0.645	0.979	0.663	0.748	0.991	0.020	0.012	0.138	0.400	0.943	1.549	0.580	0.671
18	0.002	0.091	0.089	0.109	0.625	0.947	0.635	0.712	0.946	0.019	0.012	0.136	0.386	0.910	1.494	0.556	0.642
27	0.002	0.071	0.068	0.090	0.504	0.743	0.471	0.504	0.682	0.018	0.010	0.116	0.290	0.679	1.113	0.413	0.469
28	0.002	0.069	0.066	0.089	0.495	0.727	0.458	0.488	0.663	0.018	0.010	0.114	0.283	0.661	1.084	0.403	0.456
29	0.002	0.068	0.065	0.088	0.486	0.712	0.447	0.474	0.644	0.018	0.010	0.113	0.276	0.644	1.057	0.393	0.443
30	0.002	0.066	0.063	0.086	0.477	0.698	0.436	0.460	0.627	0.017	0.010	0.111	0.269	0.630	1.033	0.383	0.432
31	0.002	0.065	0.061	0.085	0.469	0.683	0.426	0.448	0.611	0.017	0.010	0.110	0.263	0.614	1.008	0.374	0.421
32	0.002	0.063	0.060	0.084	0.461	0.670	0.416	0.436	0.595	0.017	0.010	0.109	0.259	0.606	0.996	0.366	0.411
33	0.002	0.062	0.058	0.084	0.454	0.658	0.407	0.424	0.581	0.017	0.010	0.107	0.255	0.599	0.983	0.358	0.401
34	0.002	0.061	0.057	0.083	0.447	0.646	0.398	0.414	0.567	0.017	0.009	0.106	0.252	0.591	0.971	0.350	0.392
35	0.002	0.060	0.056	0.082	0.440	0.635	0.390	0.404	0.554	0.017	0.009	0.105	0.249	0.583	0.959	0.343	0.384
36	0.002	0.059	0.055	0.081	0.434	0.624	0.382	0.394	0.542	0.017	0.009	0.104	0.245	0.576	0.947	0.336	0.375
37	0.002	0.058	0.054	0.080	0.427	0.614	0.374	0.385	0.530	0.017	0.009	0.103	0.242	0.569	0.935	0.330	0.367
38	0.002	0.057	0.053	0.080	0.422	0.604	0.367	0.376	0.519	0.017	0.009	0.102	0.239	0.562	0.924	0.324	0.360
39	0.002	0.056	0.052	0.079	0.416	0.595	0.360	0.368	0.508	0.016	0.009	0.101	0.236	0.555	0.913	0.318	0.353
40	0.002	0.055	0.051	0.078	0.410	0.586	0.354	0.360	0.498	0.016	0.009	0.100	0.233	0.548	0.902	0.312	0.346
41	0.002	0.055	0.050	0.078	0.405	0.577	0.348	0.353	0.488	0.016	0.009	0.099	0.230	0.541	0.891	0.307	0.340
42	0.002	0.054	0.049	0.077	0.400	0.569	0.342	0.345	0.479	0.016	0.009	0.099	0.227	0.535	0.881	0.302	0.333
43	0.002	0.053	0.049	0.077	0.395	0.561	0.336	0.338	0.470	0.016	0.009	0.098	0.224	0.528	0.871	0.297	0.327
44	0.002	0.052	0.048	0.076	0.391	0.554	0.330	0.332	0.461	0.016	0.009	0.097	0.221	0.522	0.861	0.292	0.322
45	0.002	0.052	0.047	0.075	0.386	0.546	0.325	0.326	0.453	0.016	0.009	0.097	0.218	0.516	0.851	0.288	0.316
50	0.001	0.049	0.044	0.073	0.366	0.513	0.302	0.298	0.417	0.016	0.008	0.095	0.206	0.488	0.806	0.267	0.292
51	0.001	0.049	0.044	0.072	0.365	0.513	0.297	0.293	0.415	0.016	0.008	0.095	0.204	0.483	0.798	0.264	0.291
52	0.001	0.049	0.044	0.072	0.365	0.513	0.293	0.288	0.414	0.016	0.008	0.094	0.202	0.478	0.790	0.260	0.289
53	0.001	0.049	0.044	0.071	0.365	0.512	0.289	0.283	0.413	0.016	0.008	0.094	0.199	0.473	0.782	0.257	0.288
54	0.001	0.048	0.043	0.071	0.365	0.512	0.286	0.279	0.412	0.016	0.008	0.094	0.197	0.468	0.774	0.254	0.287

EMFAC-HK Model (v 3.4) Key Assumptions:

- Mode: EMFAC
- Calendar Year 2019
- Temperature and relative humidity 24 degree C, 77% (2017 average at Tuen Mun Weather Station)
- Vehicle Population (external roads) Default
- Vehicle Population (internal roads All HGV8 (year 2019) are of Euro V standard)
- 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	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	
3	LGV4	4	2	2	3	2	7	11	17	36	38	62	58	54	52	59	58	58	59	60	54	54	17	11	
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	53	54	55	50	51	20	10	
6	HGV7	0	0	0	0	0	0	4	20	266	364	274	254	231	225	261	262	268	251	214	16	12	4	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	
8	FBDD	2	1	1	0	0	0	2	2	4	1	6	11	9	11	11	11	11	11	9	8	7	6	6	
9	MC	0	0	0	0	0	0	0	1	1	1	6	8	6	5	6	6	6	6	6	6	5	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	
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	
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	
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	
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	
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	
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	
Total Flow (veh)		61	33	30	24	24	47	113	331	1367	1643	1561	1464	1353	1281	1501	1480	1486	1437	1338	612	518	226	141	98

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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	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	0.001	0.001	0.001	
LGV3	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.060	0.069	0.071	0.060	0.055	0.054	0.052	0.055	0.055	0.061	0.068	0.065	0.055	0.055	0.049	0.049	0.049	
LGV4	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.056	0.066	0.068	0.056	0.050	0.049	0.048	0.050	0.050	0.057	0.065	0.061	0.051	0.051	0.044	0.044	0.044	
PLB	0.072	0.071	0.071	0.071	0.071	0.071	0.072	0.082	0.089	0.090	0.082	0.078	0.077	0.076	0.078	0.078	0.083	0.088	0.085	0.078	0.078	0.073	0.072	0.072	
LGV6	0.365	0.365	0.365	0.365	0.365	0.365	0.365	0.440	0.495	0.504	0.440	0.405	0.400	0.391	0.405	0.405	0.447	0.486	0.469	0.410	0.410	0.366	0.365	0.365	
HGV7	0.513	0.512	0.512	0.512	0.512	0.512	0.513	0.635	0.727	0.743	0.635	0.577	0.569	0.554	0.577	0.577	0.646	0.712	0.683	0.586	0.586	0.513	0.513	0.513	
HGV8	0.293	0.289	0.289	0.289	0.289	0.289	0.297	0.390	0.458	0.471	0.390	0.348	0.342	0.330	0.348	0.348	0.398	0.447	0.426	0.354	0.354	0.302	0.297	0.293	
FBDD	0.414	0.413	0.413	0.413	0.413	0.413	0.415	0.554	0.663	0.682	0.554	0.488	0.479	0.461	0.488	0.488	0.567	0.644	0.611	0.498	0.498	0.417	0.415	0.414	
MC	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.018	0.018	0.017	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.018	0.017	0.016	0.016	0.016	0.016	0.016	
TAXI	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.010	0.010	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.009	0.009	0.008	0.008	0.008	
PV4	0.094	0.094	0.094	0.094	0.094	0.094	0.095	0.105	0.114	0.116	0.105	0.099	0.099	0.097	0.099	0.099	0.106	0.113	0.110	0.100	0.100	0.095	0.095	0.094	
PV5	0.202	0.199	0.199	0.199	0.199	0.199	0.204	0.249	0.283	0.290	0.249	0.230	0.227	0.221	0.230	0.230	0.252	0.276	0.263	0.233	0.233	0.206	0.204	0.202	
NFB6	0.478	0.473	0.473	0.473	0.473	0.473	0.483	0.583	0.661	0.679	0.583	0.541	0.535	0.522	0.541	0.541	0.591	0.644	0.614	0.548	0.548	0.488	0.483	0.478	
NFB7	0.790	0.782	0.782	0.782	0.782	0.782	0.798	0.959	1.084	1.113	0.959	0.891	0.881	0.861	0.891	0.891	0.971	1.057	1.008	0.902	0.902	0.806	0.798	0.790	
NFB8	0.260	0.257	0.257	0.257	0.257	0.257	0.264	0.343	0.403	0.413	0.343	0.307	0.302	0.292	0.307	0.307	0.350	0.393	0.374	0.312	0.312	0.267	0.264	0.260	
FBSD	0.289	0.288	0.288	0.288	0.288	0.288	0.291	0.384	0.456	0.469	0.384	0.340	0.333	0.322	0.340	0.340	0.392	0.443	0.421	0.346	0.346	0.292	0.291	0.289	
Total composite emission factor (g/Veh/km)		0.1476	0.1074	0.1159	0.1397	0.1231	0.1120	0.1349	0.1545	0.4063	0.4315	0.3228	0.2865	0.2853	0.2770	0.2924	0.2938	0.3349	0.3653	0.3289	0.1412	0.1424	0.1655	0.1823	0.2271
Total composite emission factor (g/Veh/mile)		0.24	0.17	0.19	0.23	0.20	0.18	0.22	0.25	0.66	0.70	0.52	0.46	0.46	0.45	0.47	0.54	0.59	0.53	0.23	0.23	0.27	0.29	0.37	

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	4	4	5	5	5	5	5	4	4	4	3	3		
3	LGV4	2	1	1	0	0	0	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		
5	LGV6	2	1	1	0	0	0	1	2	3	3	4	3	3	3	3	3	3	4	3	3	3	2		
6	HGV7	0	0	0	0	0	0	2	64	69	57	52	38	56	63	54	59	63	65	1	1	1	0		
7	HGV8	0	0	0	0	0	0	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	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	2	1	1	1	1	1	2	4	5	5	3	3	5	3	5	3	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		
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		
Total Flow (veh)		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	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	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.091	0.091	0.091	0.091	0.091	
LGV4	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.089	0.089	0.089	0.089	0.089	
PLB	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.109	0.109	0.109	0.109	0.109	0.109	
LGV6	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.625	0.625	0.625	0.625	0.625	0.625	
HGV7	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.979	0.979	0.979	0.979	0.979	0.979	0.979	0.979	0.979	0.979	0.947	0.947	0.947	0.947	0.947	0.947	
HGV8	0.635	0.635	0.635	0.635	0.635	0.635	0.635	0.635	0.663	0.663	0.663	0.663	0.663	0.663	0.663	0.663	0.663	0.663	0.635	0.635	0.635	0.635	0.635	0.635	
FBDD	0.946	0.946	0.946	0.946	0.946	0.946	0.946	0.946	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.946	0.946	0.946	0.946	0.946	0.946	
MC	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.019	0.019	0.019	0.019	0.019	0.019	
TAXI	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	
PV4	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.136	0.136	0.136	0.136	0.136	0.136	
PV5	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.386	0.386	0.386	0.386	0.386	0.386	
NFB6	0.910	0.910	0.910	0.910	0.910	0.910	0.910	0.910	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.910	0.910	0.910	0.910	0.910	0.910	
NFB7	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.549	1.549	1.549	1.549	1.549	1.549	1.549	1.549	1.549	1.549	1.494	1.494	1.494	1.494	1.494	1.494	
NFB8	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.556	0.556	0.556	0.556	0.556	0.556	
FBSD	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.642	0.642	0.642	0.642	0.642	0.642	
Total composite emission factor (g/Veh/km)		0.1333	0.1176	0.1368	0.0348	0.0348	0.0348	0.4353	0.4311	0.6792	0.6805	0.6593	0.6665	0.6556	0.6722	0.6684	0.6681	0.6717	0.6684	0.6652	0.1651	0.1982	0.2118	0.1437	0.1326
Total composite emission factor (g/Veh/mile)		0.21	0.19	0.22	0.06	0.06	0.06	0.70	0.70	1.10	1.10	1.06	1.08	1.06	1.08	1.08	1.08	1.08	1.08	1.07	0.27	0.32	0.34	0.23	0.21

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	FBD	2	1	1	0	0	2	4	4	4	1	11	9	9	6	6	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	0	0	1	6	6	5	6	6	6	6	6	6	6	6	5	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	7	7
Total Flow (veh)		48	26	24	21	21	44	98	299	884	1144	1136	1079	1012	934	1093	1088	1076	1029	907	583	494	207	124	85

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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	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	0.001	0.001	0.001	
LGV3	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.058	0.060	0.060	0.060	0.052	0.052	0.053	0.055	0.055	0.061	0.068	0.065	0.055	0.052	0.049	0.049	0.049	
LGV4	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.054	0.056	0.056	0.056	0.048	0.048	0.049	0.050	0.050	0.057	0.065	0.061	0.050	0.048	0.044	0.044	0.044	
PLB	0.072	0.071	0.071	0.071	0.071	0.071	0.072	0.080	0.082	0.082	0.082	0.076	0.076	0.077	0.078	0.078	0.083	0.088	0.085	0.078	0.076	0.073	0.072	0.072	
LGV6	0.365	0.365	0.365	0.365	0.365	0.365	0.365	0.427	0.440	0.440	0.440	0.391	0.391	0.395	0.405	0.405	0.447	0.486	0.469	0.405	0.391	0.368	0.365	0.365	
HGV7	0.513	0.512	0.512	0.512	0.512	0.512	0.513	0.614	0.635	0.635	0.635	0.554	0.554	0.561	0.577	0.577	0.646	0.712	0.683	0.577	0.554	0.513	0.513	0.513	
HGV8	0.293	0.289	0.289	0.289	0.289	0.289	0.297	0.374	0.390	0.390	0.390	0.330	0.330	0.336	0.348	0.348	0.398	0.447	0.426	0.348	0.330	0.302	0.297	0.293	
FBD	0.414	0.413	0.413	0.413	0.413	0.413	0.415	0.530	0.554	0.554	0.554	0.461	0.461	0.470	0.488	0.488	0.567	0.644	0.611	0.488	0.461	0.417	0.415	0.414	
MC	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.017	0.017	0.017	0.017	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.018	0.017	0.016	0.016	0.016	0.016	
TAXI	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.009	0.009	0.008	0.008	0.008	
PV4	0.094	0.094	0.094	0.094	0.094	0.094	0.095	0.103	0.105	0.105	0.105	0.097	0.097	0.098	0.099	0.099	0.106	0.113	0.110	0.099	0.097	0.095	0.095	0.094	
PV5	0.202	0.199	0.199	0.199	0.199	0.199	0.204	0.242	0.249	0.249	0.249	0.221	0.221	0.224	0.230	0.230	0.252	0.276	0.263	0.230	0.221	0.206	0.204	0.202	
NFB6	0.478	0.473	0.473	0.473	0.473	0.473	0.483	0.569	0.583	0.583	0.583	0.522	0.522	0.528	0.541	0.541	0.591	0.644	0.614	0.541	0.522	0.488	0.483	0.478	
NFB7	0.790	0.782	0.782	0.782	0.782	0.782	0.798	0.935	0.959	0.959	0.959	0.861	0.861	0.871	0.891	0.891	0.971	1.057	1.008	0.891	0.861	0.806	0.798	0.790	
NFB8	0.260	0.257	0.257	0.257	0.257	0.257	0.264	0.330	0.343	0.343	0.343	0.292	0.292	0.297	0.307	0.307	0.350	0.393	0.374	0.307	0.292	0.267	0.264	0.260	
FBSD	0.289	0.288	0.288	0.288	0.288	0.288	0.291	0.367	0.384	0.384	0.384	0.322	0.322	0.327	0.340	0.340	0.392	0.443	0.421	0.340	0.322	0.292	0.291	0.289	
Total composite emission factor (g/Veh/km)		0.1671	0.1182	0.1253	0.1569	0.1379	0.1183	0.1220	0.1372	0.3182	0.3423	0.2954	0.2494	0.2573	0.2550	0.2668	0.2700	0.3055	0.3282	0.2781	0.1411	0.1356	0.1701	0.1961	0.2503
Total composite emission factor (g/Veh/mile)		0.27	0.19	0.20	0.25	0.22	0.19	0.20	0.22	0.51	0.55	0.48	0.40	0.42	0.41	0.43	0.44	0.49	0.53	0.45	0.23	0.22	0.27	0.32	0.40

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	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	9	8	7	6	6	4
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	1
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	13	13	11	9	8	8	7	7
Total Flow (veh)		40	25	23	21	21	44	97	286	741	845	832	801	744	693	803	804	768	755	798	552	468	186	104	71

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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	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	0.001	0.001	0.001
LGV3	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.060	0.061	0.061	0.062	0.054	0.054	0.055	0.052	0.062	0.062	0.062	0.062	0.061	0.061	0.049	0.049	0.049	0.049
LGV4	0.044	0.044	0.044	0.044	0.044	0.044	0.056	0.057	0.057	0.058	0.049	0.049	0.049	0.050	0.048	0.058	0.058	0.058	0.057	0.057	0.044	0.044	0.044	0.044	0.044
PLB	0.072	0.071	0.071	0.071	0.071	0.071	0.072	0.082	0.083	0.083	0.084	0.077	0.077	0.078	0.076	0.084	0.084	0.084	0.084	0.083	0.083	0.073	0.072	0.072	0.072
LGV6	0.365	0.365	0.365	0.365	0.365	0.365	0.365	0.440	0.447	0.447	0.454	0.400	0.400	0.405	0.391	0.454	0.454	0.454	0.447	0.447	0.366	0.365	0.365	0.365	
HGV7	0.513	0.512	0.512	0.512	0.512	0.512	0.513	0.635	0.646	0.646	0.658	0.569	0.569	0.569	0.577	0.554	0.658	0.658	0.658	0.646	0.646	0.513	0.513	0.513	
HGV8	0.293	0.289	0.289	0.289	0.289	0.289	0.297	0.390	0.398	0.398	0.407	0.342	0.342	0.342	0.348	0.330	0.407	0.407	0.407	0.398	0.398	0.302	0.297	0.293	
FBDD	0.414	0.413	0.413	0.413	0.413	0.413	0.415	0.554	0.567	0.567	0.581	0.479	0.479	0.479	0.488	0.461	0.581	0.581	0.581	0.567	0.567	0.417	0.415	0.414	
MC	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.017	0.017	0.017	0.016	0.016	0.016	0.016	0.016	0.017	0.017	0.017	0.017	0.017	0.016	0.016	0.016	
TAXI	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.010	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.009	0.009	0.008	0.008	0.008	
PV4	0.094	0.094	0.094	0.094	0.094	0.094	0.095	0.105	0.106	0.106	0.107	0.099	0.099	0.099	0.099	0.097	0.107	0.107	0.107	0.106	0.106	0.095	0.095	0.094	
PV5	0.202	0.199	0.199	0.199	0.199	0.199	0.204	0.249	0.252	0.252	0.255	0.227	0.227	0.230	0.221	0.255	0.255	0.255	0.252	0.252	0.206	0.204	0.202	0.202	
NFB6	0.478	0.473	0.473	0.473	0.473	0.473	0.483	0.583	0.591	0.591	0.599	0.535	0.535	0.535	0.541	0.522	0.599	0.599	0.599	0.591	0.591	0.488	0.483	0.478	
NFB7	0.790	0.782	0.782	0.782	0.782	0.782	0.798	0.959	0.971	0.971	0.983	0.881	0.881	0.891	0.861	0.983	0.983	0.983	0.971	0.971	0.806	0.798	0.790	0.790	
NFB8	0.260	0.257	0.257	0.257	0.257	0.257	0.264	0.343	0.350	0.350	0.358	0.302	0.302	0.307	0.292	0.358	0.358	0.358	0.350	0.350	0.267	0.264	0.260	0.260	
FBSD	0.289	0.288	0.288	0.288	0.288	0.288	0.291	0.384	0.392	0.392	0.401	0.333	0.333	0.333	0.340	0.322	0.401	0.401	0.401	0.392	0.392	0.292	0.291	0.289	
Total composite emission factor (g/Veh/km)		0.1874	0.1229	0.1307	0.1569	0.1379	0.1183	0.1233	0.1385	0.3072	0.3220	0.2706	0.2256	0.2352	0.2286	0.2354	0.2308	0.2708	0.2625	0.2575	0.1576	0.1599	0.1798	0.2198	0.2863
Total composite emission factor (g/Veh/mile)		0.30	0.20	0.21	0.25	0.22	0.19	0.20	0.22	0.50	0.52	0.44	0.36	0.38	0.37	0.38	0.37	0.44	0.42	0.42	0.25	0.26	0.29	0.35	0.46

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	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	0	8	15	18	11	9	9	9	11	9	9	11	8	4	2	0	
7	HGV8	0	0	0	0	0	0	0	0	6	13	14	8	7	7	8	7	7	8	8	4	2	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	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	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	
Total Flow (veh)		0	0	0	0	0	0	2	21	47	55	31	24	24	24	31	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	0.056	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
LGV4	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
PLB	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079
LGV6	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416
HGV7	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595
HGV8	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360
FBDD	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508
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	0.009	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	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101
PV5	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236
NFB6	0.555	0.555	0.555	0.555	0.555	0.555	0.555	0.555	0.555	0.555	0.555	0.555	0.555	0.555	0.555	0.555	0.555	0.555	0.555	0.555	0.555	0.555	0.555	0.555
NFB7	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913
NFB8	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318
FBSD	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0053	0.3312	0.3055	0.3005	0.3075	0.3317	0.3317	0.3317	0.3075	0.3317	0.3317	0.3075	0.3075	0.1938	0.2408	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.01	0.53	0.49	0.48	0.50	0.53	0.53	0.53	0.50	0.53	0.53	0.50	0.50	0.31	0.39	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	0	2	3	2	1	1	2	0	1	1	1	1	0	1	1	2	1	0	0
2	LGV3	0	0	0	0	0	0	0	0	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	0	0
3	LGV4	0	0	0	0	0	0	0	0	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	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	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	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	2	2	2	0	0
7	HGV8	0	0	0	0	0	0	0	1	2	2	0	1	0	0	0	1	0	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	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	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	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	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	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	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	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	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	0	0
Total Flow (veh)		0	0	0	0	0	0	0	2	11	12	5	5	4	5	5	4	5	4	5	4	5	3	0	1	0	0

NO2 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		
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	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
LGV4	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	0.049	0.049
PLB	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077
LGV6	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395
HGV7	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561
HGV8	0.336	0.336	0.336	0.336	0.336	0.336	0.336	0.336	0.336	0.336	0.336	0.336	0.336	0.336	0.336	0.336	0.336	0.336	0.336	0.336	0.336	0.336	0.336	0.336	0.336	0.336
FBDD	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
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	0.016	0.016
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	0.009	0.009
PV4	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098
PV5	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224
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	0.528	0.528
NFB7	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871
NFB8	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297
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	0.327	0.327
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.4486	0.2376	0.2464	0.2357	0.2937	0.2942	0.2371	0.2357	0.3668	0.2371	0.2942	0.2357	0.0211	0.0000	0.0016	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.38	0.40	0.38	0.47	0.47	0.38	0.38	0.59	0.38	0.47	0.38	0.03	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: 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	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
Total Flow (veh)		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	0.057	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	0.057
LGV4	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
PLB	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080
LGV6	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422
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	0.604
HGV8	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
FBDD	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	0.519
MC	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	0.017
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	0.009
PV4	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102
PV5	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239
NFB6	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562
NFB7	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924
NFB8	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324
FBSD	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360
Total composite emission factor (g/Veh/kr)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0054	0.3497	0.3003	0.2983	0.3044	0.3338	0.3343	0.3231	0.3044	0.3456	0.3198	0.3131	0.3044	0.1664	0.2453	0.0016	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.01	0.56	0.48	0.48	0.49	0.54	0.54	0.52	0.49	0.56	0.52	0.50	0.49	0.27	0.40	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: 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	11	11	13	13	2	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	7	15	16	8	7	7	8	8	8	8	4	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	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	
Total Flow (veh)		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	0.057	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
LGV4	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
PLB	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080
LGV6	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422
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	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
FBDD	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
MC	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
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	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102
PV5	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239
NFB6	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562
NFB7	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924
NFB8	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324
FBSD	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0054	0.3497	0.3003	0.2983	0.3044	0.3338	0.3343	0.3231	0.3044	0.3456	0.3198	0.3131	0.3044	0.1664	0.2453	0.0016	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.01	0.56	0.48	0.48	0.49	0.54	0.54	0.52	0.49	0.56	0.52	0.50	0.49	0.27	0.40	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	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	LGV4	1	1	1	3	2	6	9	10	24	26	48	46	43	41	47	46	47	46	43	43	11	5		
4	PLB	5	3	2	2	2	3	6	6	6	12	11	10	10	11	11	11	11	12	10	8	8	7		
5	LGV6	1	1	1	3	2	6	9	10	25	26	43	41	39	37	42	41	42	41	39	40	14	4		
6	HGV7	0	0	0	0	0	0	2	6	177	222	159	149	142	122	140	155	152	132	119	10	3	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		
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	11	11	11	11	11	9	8	7	6		
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	6	5	6	6	6	6	6	6	5	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		
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4		
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4		
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10		
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10		
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10		
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	13	13	11	9	8	7		
Total Flow (veh)		35	21	19	17	17	37	85	228	595	684	720	700	649	600	693	704	676	646	688	478	420	168		

NO2 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	
PC	0.001	0.001	0.001	0.001	0.001	0.001	0.001	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	0.001	0.001	0.001	
LGV3	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.060	0.061	0.061	0.062	0.054	0.054	0.054	0.055	0.052	0.062	0.062	0.062	0.061	0.061	0.049	0.049	0.049	
LGV4	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.056	0.057	0.057	0.058	0.049	0.049	0.049	0.050	0.048	0.058	0.058	0.058	0.057	0.057	0.044	0.044	0.044	
PLB	0.072	0.071	0.071	0.071	0.071	0.071	0.072	0.082	0.083	0.083	0.084	0.077	0.077	0.077	0.078	0.076	0.084	0.084	0.084	0.083	0.083	0.073	0.072	0.072	
LGV6	0.365	0.365	0.365	0.365	0.365	0.365	0.365	0.440	0.447	0.447	0.454	0.400	0.400	0.400	0.405	0.391	0.454	0.454	0.454	0.447	0.447	0.366	0.365	0.365	
HGV7	0.513	0.512	0.512	0.512	0.512	0.512	0.513	0.535	0.646	0.646	0.658	0.569	0.569	0.569	0.577	0.554	0.658	0.658	0.658	0.646	0.646	0.513	0.513	0.513	
HGV8	0.293	0.289	0.289	0.289	0.289	0.289	0.297	0.390	0.398	0.398	0.407	0.342	0.342	0.342	0.348	0.330	0.407	0.407	0.407	0.398	0.398	0.302	0.297	0.293	
FBDD	0.414	0.413	0.413	0.413	0.413	0.413	0.415	0.554	0.567	0.567	0.581	0.479	0.479	0.479	0.488	0.481	0.581	0.581	0.581	0.567	0.567	0.417	0.415	0.414	
MC	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.017	0.017	0.017	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.015	0.016	
TAXI	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.010	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.009	0.009	0.008	0.008	0.008	
PV4	0.094	0.094	0.094	0.094	0.094	0.094	0.095	0.105	0.106	0.106	0.107	0.099	0.099	0.099	0.099	0.097	0.107	0.107	0.107	0.106	0.106	0.095	0.095	0.094	
PV5	0.202	0.199	0.199	0.199	0.199	0.199	0.204	0.249	0.252	0.252	0.255	0.227	0.227	0.227	0.230	0.221	0.255	0.255	0.255	0.252	0.252	0.206	0.204	0.202	
NFB6	0.478	0.473	0.473	0.473	0.473	0.473	0.483	0.583	0.591	0.591	0.599	0.535	0.535	0.535	0.541	0.522	0.599	0.599	0.599	0.591	0.591	0.488	0.483	0.478	
NFB7	0.790	0.782	0.782	0.782	0.782	0.782	0.798	0.959	0.971	0.971	0.983	0.881	0.881	0.881	0.891	0.861	0.983	0.983	0.983	0.971	0.971	0.806	0.798	0.790	
NFB8	0.260	0.257	0.257	0.257	0.257	0.257	0.264	0.343	0.350	0.350	0.358	0.302	0.302	0.302	0.307	0.292	0.358	0.358	0.358	0.350	0.350	0.267	0.264	0.260	
FBSD	0.289	0.288	0.288	0.288	0.288	0.288	0.291	0.384	0.392	0.392	0.401	0.333	0.333	0.333	0.340	0.322	0.401	0.401	0.401	0.392	0.392	0.292	0.291	0.289	
Total composite emission factor (g/Veh/km)	0.2138	0.1457	0.1572	0.1931	0.1696	0.1280	0.1339	0.1104	0.3121	0.3292	0.2723	0.2257	0.2364	0.2291	0.2368	0.2323	0.2737	0.2624	0.2570	0.1541	0.1583	0.1968	0.2506	0.2948	
Total composite emission factor (g/Veh/mile)	0.34	0.23	0.25	0.31	0.27	0.21	0.22	0.18	0.50	0.53	0.44	0.36	0.38	0.37	0.44	0.42	0.41	0.25	0.26	0.32	0.40	0.48			

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	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	6	5	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	6	5	6	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	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		
Total Flow (veh)		5	4	4	4	4	7	10	35	88	94	76	72	67	64	74	72	65	74	74	57	45	17	13	2

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	0.065	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	0.065
LGV4	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	0.061	0.061
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	0.085
LGV6	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469
HGV7	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683
HGV8	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426
FBDD	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611
MC	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	0.017
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	0.110	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	0.110
PV5	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	0.263
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	0.614
NFB7	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008
NFB8	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374
FBSD	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421
Total composite emission factor (g/Veh/km)		0.0034	0.0038	0.0057	0.0038	0.0038	0.0871	0.0741	0.1836	0.2813	0.2888	0.2344	0.2319	0.2339	0.2315	0.2349	0.2319	0.2160	0.2349	0.2349	0.1912	0.1778	0.0295	0.0048	0.0018
Total composite emission factor (g/Veh/mile)		0.01	0.01	0.01	0.01	0.01	0.14	0.12	0.30	0.45	0.47	0.38	0.37	0.38	0.37	0.38	0.37	0.35	0.38	0.38	0.31	0.29	0.05	0.01	0.00

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	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	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	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	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	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	
Total Flow (veh)		7	4	2	2	0	4	31	70	169	184	118	103	102	97	112	109	109	110	112	64	35	16	13	4

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	0.002	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	0.059	0.059	0.059	0.059	0.059	0.059	0.061	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.063	0.063	0.063	0.062	0.062	0.062	0.062	0.059	
LGV4	0.055	0.055	0.055	0.055	0.055	0.055	0.057	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.060	0.060	0.060	0.058	0.058	0.058	0.058	0.055	
PLB	0.081	0.081	0.081	0.081	0.081	0.081	0.083	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.081	
LGV6	0.434	0.434	0.434	0.434	0.434	0.434	0.447	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.461	0.461	0.461	0.454	0.454	0.454	0.454	0.434	
HGV7	0.624	0.624	0.624	0.624	0.624	0.624	0.646	0.658	0.658	0.658	0.658	0.658	0.658	0.658	0.658	0.658	0.670	0.670	0.670	0.658	0.658	0.658	0.658	0.624	
HGV8	0.382	0.382	0.382	0.382	0.382	0.382	0.398	0.407	0.407	0.407	0.407	0.407	0.407	0.407	0.407	0.407	0.416	0.416	0.416	0.407	0.407	0.407	0.407	0.382	
FBDD	0.542	0.542	0.542	0.542	0.542	0.542	0.567	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.595	0.595	0.595	0.581	0.581	0.581	0.581	0.542	
MC	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	
TAXI	0.009	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	0.009	
PV4	0.104	0.104	0.104	0.104	0.104	0.104	0.106	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.109	0.109	0.109	0.107	0.107	0.107	0.107	0.104	
PV5	0.245	0.245	0.245	0.245	0.245	0.245	0.252	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.259	0.259	0.259	0.255	0.255	0.255	0.255	0.245	
NFB6	0.576	0.576	0.576	0.576	0.576	0.576	0.591	0.599	0.599	0.599	0.599	0.599	0.599	0.599	0.599	0.599	0.606	0.606	0.606	0.599	0.599	0.599	0.599	0.576	
NFB7	0.947	0.947	0.947	0.947	0.947	0.947	0.971	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.996	0.996	0.996	0.983	0.983	0.983	0.983	0.947	
NFB8	0.336	0.336	0.336	0.336	0.336	0.336	0.350	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.366	0.366	0.366	0.358	0.358	0.358	0.358	0.336	
FBSD	0.375	0.375	0.375	0.375	0.375	0.375	0.392	0.401	0.401	0.401	0.401	0.401	0.401	0.401	0.401	0.401	0.411	0.411	0.411	0.401	0.401	0.401	0.401	0.375	
Total composite emission factor (g/Veh/km)		0.0120	0.0179	0.0055	0.0303	0.0000	0.0160	0.1234	0.1729	0.2738	0.2779	0.2697	0.2619	0.2796	0.2771	0.2789	0.2768	0.2820	0.2794	0.2701	0.1189	0.1460	0.1444	0.0525	0.1363
Total composite emission factor (g/Veh/mile)		0.02	0.03	0.01	0.05	0.00	0.03	0.20	0.28	0.44	0.45	0.43	0.42	0.45	0.45	0.45	0.45	0.45	0.45	0.44	0.19	0.24	0.23	0.08	0.22

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	3	6	6	11	11	34	33	32	31	34	33	34	34	32	32	10	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	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	5	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	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	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	4	4	4	4	3	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	13	13	13	11	9	8	7	7
Total Flow (veh)		28	17	17	15	17	33	54	158	426	500	602	597	547	503	581	595	567	536	576	414	385	152	78	65

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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	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	0.001	0.001	0.001	0.001
LGV3	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.060	0.061	0.062	0.062	0.054	0.054	0.054	0.055	0.052	0.062	0.062	0.062	0.061	0.061	0.049	0.049	0.049	0.049
LGV4	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.056	0.057	0.057	0.058	0.049	0.049	0.049	0.050	0.048	0.058	0.058	0.058	0.057	0.057	0.044	0.044	0.044	0.044
PLB	0.072	0.071	0.071	0.071	0.071	0.071	0.072	0.082	0.083	0.084	0.077	0.077	0.077	0.078	0.078	0.084	0.084	0.084	0.083	0.083	0.073	0.072	0.072	0.072	0.072
LGV6	0.365	0.365	0.365	0.365	0.365	0.365	0.365	0.440	0.447	0.447	0.454	0.400	0.400	0.400	0.405	0.391	0.454	0.454	0.454	0.447	0.447	0.365	0.365	0.365	0.365
HGV7	0.513	0.512	0.512	0.512	0.512	0.512	0.513	0.635	0.646	0.646	0.658	0.569	0.569	0.569	0.577	0.554	0.658	0.658	0.658	0.646	0.646	0.513	0.513	0.513	0.513
HGV8	0.293	0.289	0.289	0.289	0.289	0.289	0.297	0.390	0.398	0.398	0.407	0.342	0.342	0.342	0.348	0.330	0.407	0.407	0.407	0.398	0.398	0.302	0.297	0.293	0.293
FBDD	0.414	0.413	0.413	0.413	0.413	0.413	0.415	0.554	0.567	0.567	0.581	0.479	0.479	0.479	0.488	0.461	0.581	0.581	0.581	0.567	0.567	0.417	0.415	0.414	0.414
MC	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.017	0.017	0.017	0.016	0.016	0.016	0.016	0.016	0.017	0.017	0.017	0.017	0.017	0.016	0.016	0.016	0.016
TAXI	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.010	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.009	0.009	0.008	0.008	0.008	0.008
PV4	0.094	0.094	0.094	0.094	0.094	0.094	0.095	0.105	0.106	0.106	0.107	0.099	0.099	0.099	0.099	0.097	0.107	0.107	0.107	0.106	0.106	0.095	0.095	0.094	0.094
PV5	0.202	0.199	0.199	0.199	0.199	0.199	0.204	0.249	0.252	0.252	0.255	0.227	0.227	0.227	0.230	0.221	0.255	0.255	0.255	0.252	0.252	0.206	0.204	0.202	0.202
NFB6	0.478	0.473	0.473	0.473	0.473	0.473	0.483	0.583	0.591	0.591	0.599	0.535	0.535	0.535	0.541	0.522	0.599	0.599	0.599	0.591	0.591	0.488	0.483	0.478	0.478
NFB7	0.790	0.782	0.782	0.782	0.782	0.782	0.798	0.959	0.971	0.971	0.983	0.881	0.881	0.881	0.891	0.861	0.983	0.983	0.983	0.971	0.971	0.806	0.798	0.790	0.790
NFB8	0.260	0.257	0.257	0.257	0.257	0.257	0.264	0.343	0.350	0.350	0.358	0.302	0.302	0.302	0.307	0.292	0.358	0.358	0.358	0.350	0.350	0.267	0.264	0.260	0.260
FBSD	0.289	0.288	0.288	0.288	0.288	0.288	0.291	0.384	0.392	0.392	0.401	0.333	0.333	0.333	0.340	0.322	0.401	0.401	0.401	0.392	0.392	0.292	0.291	0.289	0.289
Total composite emission factor (g/Veh/km)		0.2647	0.1765	0.1751	0.2155	0.1696	0.1420	0.1544	0.0852	0.3293	0.3500	0.2729	0.2256	0.2355	0.2272	0.2354	0.2323	0.2732	0.2600	0.2554	0.1599	0.1597	0.2057	0.2853	0.3057
Total composite emission factor (g/Veh/mile)		0.43	0.28	0.28	0.35	0.27	0.23	0.25	0.14	0.53	0.56	0.44	0.36	0.38	0.37	0.38	0.37	0.44	0.42	0.41	0.26	0.26	0.33	0.46	0.49

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

District: Tuen Mun Fill Bank
 Road Section TM15_Lung Yu 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	3	4	3	1	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	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	1	2	1	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	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	2	2	2	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	
Total Flow (veh)		5	2	2	2	0	3	19	46	114	125	58	50	53	49	56	56	56	54	54	22	12	5	10	4

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	0.052	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	0.052
LGV4	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	0.047
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	0.075
LGV6	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386
HGV7	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	0.546
HGV8	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325
FBDD	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453
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	0.016
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	0.009
PV4	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097
PV5	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218
NFB6	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516
NFB7	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851
NFB8	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288
FBSD	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	0.316
Total composite emission factor (g/Veh/km)		0.0130	0.0266	0.0051	0.0266	0.0000	0.0182	0.1015	0.1409	0.2251	0.2298	0.2891	0.2742	0.2997	0.2967	0.3138	0.2915	0.2915	0.3093	0.2862	0.0923	0.1519	0.0990	0.0567	0.1205
Total composite emission factor (g/Veh/mile)		0.02	0.04	0.01	0.04	0.00	0.03	0.16	0.23	0.36	0.37	0.47	0.44	0.48	0.48	0.51	0.47	0.47	0.50	0.46	0.15	0.24	0.16	0.09	0.19

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	8	6	3	2	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	6	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	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	
Total Flow (veh)		2	2	0	0	0	1	12	24	55	59	60	53	49	48	56	53	53	56	58	42	23	11	3	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	0.052	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	
LGV4	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	
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	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	
HGV7	0.554	0.554	0.554	0.554	0.554	0.554	0.554	0.554	0.554	0.554	0.554	0.554	0.554	0.554	0.554	0.554	0.554	0.554	0.554	0.554	0.554	0.554	0.554	0.554	
HGV8	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	
FBDD	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	
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	0.009	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	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	
PV5	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	
NFB6	0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.522	
NFB7	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861	
NFB8	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	
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	
Total composite emission factor (g/Veh/km)		0.0051	0.0051	0.0000	0.0000	0.0000	0.0015	0.1112	0.1548	0.2306	0.2309	0.1615	0.1652	0.1595	0.1626	0.1495	0.1652	0.1652	0.1495	0.1596	0.1041	0.1062	0.1317	0.0039	0.0000
Total composite emission factor (g/Veh/mile)		0.01	0.01	0.00	0.00	0.00	0.00	0.18	0.25	0.37	0.37	0.26	0.27	0.26	0.26	0.24	0.27	0.27	0.24	0.26	0.17	0.17	0.21	0.01	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	LG3	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	LG4	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	LG6	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	78	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	FBS0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Flow (veh)		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	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	0.003	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
LG3	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
LG4	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	0.127
PLB	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
LG6	0.856	0.856	0.856	0.856	0.856	0.856	0.856	0.856	0.856	0.856	0.856	0.856	0.856	0.856	0.856	0.856	0.856	0.856	0.856	0.856	0.856	0.856	0.856	0.856
HGV7	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340
HGV8	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992
FBDD	1.524	1.524	1.524	1.524	1.524	1.524	1.524	1.524	1.524	1.524	1.524	1.524	1.524	1.524	1.524	1.524	1.524	1.524	1.524	1.524	1.524	1.524	1.524	1.524
MC	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
TAXI	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
PV4	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
PV5	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
NFB6	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219
NFB7	2.009	2.009	2.009	2.009	2.009	2.009	2.009	2.009	2.009	2.009	2.009	2.009	2.009	2.009	2.009	2.009	2.009	2.009	2.009	2.009	2.009	2.009	2.009	2.009
NFB8	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866
FBS0	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0443	1.0445	1.0429	1.0442	1.0430	1.0428	1.0444	1.0429	1.0435	1.0450	1.0425	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.69	1.68	0.00	0.00	0.00	0.00

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

0414816 TMFB

Pollutant Name: NO (g/veh/km)

Speed km/hr	PC ALL	LG3 ALL	LG4 ALL	PLB ALL	LG6 ALL	HGV7 ALL	HGV8 ALL	HGV8b ALL	FBDD ALL	MC ALL	TAXI ALL	PV4 ALL	PV5 ALL	NFB6 ALL	NFB7 ALL	NFB8 ALL	FBS0 ALL
10	0.058	1.393	1.368	1.793	2.659	3.680	8.501	7.608	10.897	0.408	0.683	0.766	1.574	3.357	5.931	10.732	10.339
17	0.044	1.015	0.995	1.440	2.003	2.689	5.686	4.836	7.084	0.376	0.578	0.657	1.213	2.597	4.573	7.192	6.820
18	0.043	0.981	0.960	1.403	1.943	2.600	5.448	4.606	6.764	0.372	0.568	0.644	1.171	2.506	4.410	6.893	6.523
27	0.035	0.766	0.735	1.160	1.567	2.041	4.035	3.258	4.879	0.342	0.500	0.552	0.880	1.870	3.286	5.123	4.761
28	0.035	0.749	0.717	1.141	1.537	1.997	3.929	3.158	4.738	0.339	0.494	0.544	0.857	1.820	3.200	4.991	4.629
29	0.034	0.733	0.700	1.124	1.509	1.955	3.830	3.065	4.606	0.336	0.489	0.537	0.836	1.775	3.121	4.866	4.505
30	0.034	0.718	0.683	1.109	1.482	1.916	3.736	2.977	4.483	0.334	0.483	0.529	0.816	1.734	3.050	4.749	4.389
31	0.033	0.699	0.658	1.094	1.457	1.876	3.648	2.895	4.366	0.331	0.478	0.523	0.796	1.692	2.977	4.639	4.279
32	0.033	0.685	0.643	1.083	1.433	1.840	3.565	2.818	4.256	0.329	0.474	0.516	0.785	1.670	2.940	4.535	4.176
33	0.032	0.673	0.630	1.072	1.410	1.806	3.486	2.745	4.153	0.327	0.469	0.510	0.775	1.648	2.903	4.436	4.078
34	0.032	0.660	0.617	1.062	1.388	1.774	3.411	2.676	4.055	0.324	0.465	0.504	0.764	1.627	2.866	4.343	3.985
35	0.031	0.649	0.604	1.052	1.367	1.744	3.340	2.610	3.961	0.322	0.460	0.499	0.754	1.607	2.831	4.254	3.897
36	0.031	0.638	0.593	1.043	1.347	1.714	3.273	2.548	3.873	0.320	0.456	0.494	0.743	1.586	2.796	4.170	3.814
37	0.030	0.627	0.581	1.033	1.328	1.687	3.209	2.489	3.789	0.319	0.452	0.489	0.734	1.566	2.762	4.090	3.734
38	0.030	0.617	0.571	1.024	1.310	1.660	3.148	2.433	3.709	0.317	0.449	0.484	0.724	1.547	2.728	4.014	3.658
39	0.030	0.608	0.561	1.016	1.292	1.634	3.089	2.380	3.633	0.315	0.445	0.480	0.715	1.528	2.695	3.941	3.586
40	0.029	0.599	0.551	1.007	1.275	1.610	3.034	2.329	3.560	0.313	0.442	0.476	0.705	1.509	2.663	3.871	3.517
41	0.029	0.590	0.542	0.999	1.259	1.586	2.980	2.280	3.491	0.312	0.438	0.472	0.696	1.491	2.631	3.805	3.451
42	0.029	0.582	0.533	0.991	1.243	1.563	2.929	2.234	3.424	0.310	0.435	0.469	0.688	1.473	2.601	3.741	3.388
43	0.028	0.574	0.524	0.983	1.228	1.541	2.880	2.189	3.360	0.309	0.432	0.466	0.679	1.455	2.571	3.680	3.327
44	0.028	0.566	0.516	0.976	1.214	1.520	2.833	2.147	3.299	0.307	0.429	0.463	0.671	1.438	2.541	3.621	3.269
45	0.028	0.559	0.508	0.969	1.200	1.500	2.788	2.106	3.241	0.306	0.425	0.460	0.662	1.421	2.513	3.565	3.213
50	0.027	0.526	0.474	0.935	1.136	1.409	2.586	1.925	2.979	0.300	0.411	0.451	0.625	1.344	2.380	3.314	2.965
51	0.026	0.526	0.472	0.929	1.135	1.408	2.550	1.893	2.971	0.299	0.408	0.449	0.618	1.330	2.355	3.269	2.952
52	0.026	0.525	0.471	0.923	1.135	1.408	2.515	1.861	2.962	0.299	0.406	0.449	0.611	1.316	2.331	3.225	2.940
53	0.026	0.525	0.470	0.917	1.134	1.407	2.482	1.831	2.954	0.298	0.403	0.448	0.605	1.302	2.308	3.183	2.928
54	0.026	0.525	0.469	0.912	1.134	1.407	2.449	1.802	2.946	0.297	0.401	0.447	0.598	1.289	2.286	3.143	2.916

EMFAC-HK Model (v 3.4) Key Assumptions:

Mode: EMFAC

Calendar Year 2019

Temperature and relative humidity 24 degree C, 77% (2017 average at Tuen Mun Weather Station)

Vehicle Population (external roads) Default

Vehicle Population (internal roads) All HGV8 (year 2019) are of Euro V standard

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	183	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	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	LGv8	4	2	2	3	2	7	11	17	36	38	57	53	50	48	54	53	54	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	4	4	11	11	9	9	11	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	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	13	13	11	9	8	8	7	7
Total Flow (veh)		61	33	30	24	24	47	113	331	1367	1643	1561	1464	1353	1281	1501	1480	1486	1437	1338	612	518	226	141	98

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	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.031	0.035	0.035	0.031	0.029	0.029	0.028	0.029	0.032	0.034	0.033	0.029	0.029	0.027	0.026	0.026	0.026	0.026
LGv3	0.525	0.525	0.525	0.525	0.525	0.525	0.526	0.649	0.749	0.766	0.649	0.590	0.582	0.566	0.590	0.590	0.660	0.733	0.699	0.599	0.526	0.526	0.525	0.525	0.525
LGv4	0.471	0.470	0.470	0.470	0.470	0.470	0.472	0.604	0.717	0.735	0.604	0.542	0.533	0.516	0.542	0.542	0.617	0.700	0.658	0.551	0.551	0.474	0.472	0.471	0.471
PLB	0.923	0.917	0.917	0.917	0.917	0.917	0.929	1.052	1.141	1.180	1.052	0.999	0.991	0.976	0.999	0.999	1.062	1.124	1.094	1.007	1.007	0.935	0.929	0.923	0.923
LGv8	1.135	1.134	1.134	1.134	1.134	1.134	1.135	1.367	1.537	1.567	1.367	1.259	1.243	1.214	1.259	1.259	1.388	1.509	1.457	1.275	1.275	1.136	1.135	1.135	1.135
HGV7	1.408	1.407	1.407	1.407	1.407	1.407	1.408	1.744	1.997	2.041	1.744	1.586	1.563	1.520	1.586	1.586	1.774	1.955	1.876	1.610	1.610	1.409	1.408	1.408	1.408
HGV8	2.515	2.482	2.482	2.482	2.482	2.482	2.550	3.340	3.929	4.035	3.340	2.980	2.929	2.833	2.980	2.980	3.411	3.830	3.648	3.034	3.034	2.586	2.550	2.515	2.515
FBDD	2.962	2.954	2.954	2.954	2.954	2.954	2.971	3.961	4.738	4.879	3.961	3.491	3.424	3.299	3.491	3.491	4.055	4.606	4.366	3.560	3.560	2.979	2.971	2.962	2.962
MC	0.299	0.298	0.298	0.298	0.298	0.298	0.299	0.322	0.339	0.342	0.322	0.312	0.310	0.307	0.312	0.312	0.324	0.336	0.331	0.313	0.313	0.313	0.300	0.299	0.299
TAXI	0.406	0.403	0.403	0.403	0.403	0.403	0.408	0.460	0.494	0.500	0.460	0.438	0.435	0.429	0.438	0.438	0.465	0.489	0.478	0.442	0.442	0.442	0.411	0.408	0.406
PV4	0.449	0.448	0.448	0.448	0.448	0.448	0.449	0.499	0.544	0.552	0.499	0.472	0.469	0.463	0.472	0.472	0.504	0.537	0.523	0.476	0.476	0.451	0.449	0.449	0.449
PV5	0.611	0.605	0.605	0.605	0.605	0.605	0.618	0.754	0.857	0.880	0.754	0.696	0.688	0.671	0.696	0.696	0.764	0.836	0.796	0.705	0.705	0.625	0.618	0.611	0.611
NFB6	1.316	1.302	1.302	1.302	1.302	1.302	1.330	1.607	1.820	1.870	1.607	1.491	1.473	1.438	1.491	1.491	1.627	1.775	1.692	1.509	1.509	1.344	1.330	1.316	1.316
NFB7	2.331	2.308	2.308	2.308	2.308	2.308	2.355	2.831	3.200	3.286	2.831	2.631	2.601	2.541	2.631	2.631	2.866	3.121	2.977	2.663	2.663	2.380	2.355	2.331	2.331
NFB8	3.225	3.183	3.183	3.183	3.183	3.183	3.269	4.254	4.991	5.123	4.254	3.805	3.741	3.621	3.805	3.805	4.343	4.866	4.639	3.871	3.871	3.314	3.269	3.225	3.225
FBSD	2.940	2.928	2.928	2.928	2.928	2.928	2.952	3.897	4.629	4.761	3.897	3.451	3.388	3.269	3.451	3.451	3.985	4.505	4.279	3.517	3.517	2.965	2.952	2.940	2.940
Total composite emission factor (g/Veh/km)		0.9050	0.7141	0.7657	0.8203	0.7713	0.6409	0.8253	1.0094	2.5345	2.6818	1.9890	1.7559	1.7630	1.6945	1.8059	1.8058	2.0649	2.2623	2.0281	0.8560	0.8490	0.9676	1.0665	1.2797
Total composite emission factor (g/Veh/mile)		1.46	1.15	1.24	1.32	1.24	1.03	1.33	1.63	4.09	4.33	3.21	2.83	2.84	2.73	2.91	2.91	3.33	3.65	3.27	1.38	1.37	1.56	1.72	2.06

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	4	4	5	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	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	3	4	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			
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	2	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		
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		
Total Flow (veh)		13	7	6	3	3	3	15	32	483	499	425	385	341	347	408	392	410	408	431	29	24	19	17	13

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	
PC	0.043	0.043	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	0.044	0.043	0.043	0.043	0.043	0.043	0.043
LGV3	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	0.981	0.981	0.981	0.981	0.981	0.981
LGV4	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.995	0.995	0.995	0.995	0.995	0.995	0.995	0.995	0.995	0.995	0.995	0.960	0.960	0.960	0.960	0.960	0.960
PLB	1.403	1.403	1.403	1.403	1.403	1.403	1.403	1.403	1.440	1.440	1.440	1.440	1.440	1.440	1.440	1.440	1.440	1.440	1.440	1.403	1.403	1.403	1.403	1.403	1.403
LGV6	1.943	1.943	1.943	1.943	1.943	1.943	1.943	1.943	2.003	2.003	2.003	2.003	2.003	2.003	2.003	2.003	2.003	2.003	2.003	1.943	1.943	1.943	1.943	1.943	1.943
HGV7	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.689	2.689	2.689	2.689	2.689	2.689	2.689	2.689	2.689	2.689	2.689	2.600	2.600	2.600	2.600	2.600	2.600
HGV8	5.448	5.448	5.448	5.448	5.448	5.448	5.448	5.448	5.686	5.686	5.686	5.686	5.686	5.686	5.686	5.686	5.686	5.686	5.686	5.448	5.448	5.448	5.448	5.448	5.448
FBDD	6.764	6.764	6.764	6.764	6.764	6.764	6.764	6.764	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084	6.764	6.764	6.764	6.764	6.764	6.764
MC	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.376	0.376	0.376	0.376	0.376	0.376	0.376	0.376	0.376	0.376	0.376	0.372	0.372	0.372	0.372	0.372	0.372
TAXI	0.568	0.568	0.568	0.568	0.568	0.568	0.568	0.568	0.578	0.578	0.578	0.578	0.578	0.578	0.578	0.578	0.578	0.578	0.578	0.568	0.568	0.568	0.568	0.568	0.568
PV4	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.657	0.657	0.657	0.657	0.657	0.657	0.657	0.657	0.657	0.657	0.657	0.644	0.644	0.644	0.644	0.644	0.644
PV5	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.171	1.171	1.171	1.171	1.171	1.171
NFB6	2.506	2.506	2.506	2.506	2.506	2.506	2.506	2.506	2.597	2.597	2.597	2.597	2.597	2.597	2.597	2.597	2.597	2.597	2.597	2.506	2.506	2.506	2.506	2.506	2.506
NFB7	4.410	4.410	4.410	4.410	4.410	4.410	4.410	4.410	4.573	4.573	4.573	4.573	4.573	4.573	4.573	4.573	4.573	4.573	4.573	4.410	4.410	4.410	4.410	4.410	4.410
NFB8	6.893	6.893	6.893	6.893	6.893	6.893	6.893	6.893	7.192	7.192	7.192	7.192	7.192	7.192	7.192	7.192	7.192	7.192	7.192	6.893	6.893	6.893	6.893	6.893	6.893
FBSD	6.523	6.523	6.523	6.523	6.523	6.523	6.523	6.523	6.820	6.820	6.820	6.820	6.820	6.820	6.820	6.820	6.820	6.820	6.820	6.523	6.523	6.523	6.523	6.523	6.523
Total composite emission factor (g/Veh/km)		0.7734	0.6542	0.7561	0.5304	0.5304	0.5304	2.8310	3.2019	5.0526	5.0327	4.8644	4.9249	4.9634	4.8204	4.8343	4.9232	4.9201	4.8343	4.8202	0.9788	1.1301	1.0824	0.7363	0.7330
Total composite emission factor (g/Veh/mile)		1.25	1.06	1.22	0.86	0.86	0.86	4.57	5.16	8.15	8.12	7.85	7.94	8.01	7.77	7.80	7.94	7.80	7.77	1.58	1.82	1.75	1.19	1.18	

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	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	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	4	11	11	9	11	11	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	6	5	4	4	4
10	TAXI	7	4	5	3	4	6	14	62	84	91	105	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
Total Flow (veh)		48	26	24	21	21	44	98	299	884	1144	1136	1079	1012	934	1093	1088	1076	1029	907	583	494	207	124	85

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	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.030	0.031	0.031	0.031	0.028	0.028	0.029	0.029	0.032	0.034	0.033	0.029	0.028	0.027	0.026	0.026	0.026	
LGV3	0.525	0.525	0.525	0.525	0.525	0.525	0.526	0.627	0.649	0.649	0.649	0.566	0.566	0.574	0.590	0.590	0.660	0.733	0.699	0.590	0.566	0.526	0.526	0.525	
LGV4	0.471	0.470	0.470	0.470	0.470	0.470	0.472	0.581	0.604	0.604	0.604	0.516	0.516	0.524	0.542	0.542	0.617	0.700	0.658	0.542	0.516	0.474	0.472	0.471	
PLB	0.923	0.917	0.917	0.917	0.917	0.917	0.929	1.033	1.052	1.052	1.052	0.976	0.976	0.983	0.999	0.999	1.062	1.124	1.094	0.999	0.976	0.935	0.929	0.923	
LGV6	1.135	1.134	1.134	1.134	1.134	1.134	1.135	1.328	1.367	1.367	1.367	1.214	1.214	1.228	1.259	1.259	1.388	1.509	1.457	1.259	1.214	1.136	1.135	1.135	
HGV7	1.408	1.407	1.407	1.407	1.407	1.407	1.408	1.687	1.744	1.744	1.744	1.520	1.520	1.541	1.586	1.586	1.774	1.955	1.876	1.586	1.520	1.408	1.408	1.408	
HGV8	2.515	2.482	2.482	2.482	2.482	2.482	2.550	3.209	3.340	3.340	3.340	2.833	2.833	2.880	2.980	2.980	3.411	3.830	3.648	2.980	2.833	2.586	2.550	2.515	
FBDD	2.962	2.954	2.954	2.954	2.954	2.954	2.971	3.789	3.961	3.961	3.961	3.299	3.299	3.360	3.491	3.491	4.055	4.606	4.366	3.491	3.299	2.979	2.971	2.962	
MC	0.299	0.298	0.298	0.298	0.298	0.298	0.299	0.319	0.322	0.322	0.322	0.307	0.307	0.309	0.312	0.312	0.324	0.336	0.331	0.312	0.307	0.300	0.299	0.299	
TAXI	0.406	0.403	0.403	0.403	0.403	0.403	0.408	0.452	0.460	0.460	0.460	0.429	0.429	0.432	0.438	0.438	0.465	0.489	0.478	0.438	0.429	0.411	0.408	0.406	
PV4	0.449	0.448	0.448	0.448	0.448	0.448	0.449	0.489	0.499	0.499	0.499	0.463	0.463	0.466	0.472	0.472	0.504	0.537	0.523	0.472	0.463	0.451	0.449	0.449	
PV5	0.611	0.605	0.605	0.605	0.605	0.605	0.618	0.734	0.754	0.754	0.754	0.671	0.671	0.679	0.696	0.696	0.764	0.836	0.796	0.696	0.671	0.625	0.618	0.611	
NFB6	1.316	1.302	1.302	1.302	1.302	1.302	1.330	1.566	1.607	1.607	1.607	1.438	1.438	1.455	1.491	1.491	1.627	1.775	1.692	1.491	1.438	1.344	1.330	1.316	
NFB7	2.331	2.308	2.308	2.308	2.308	2.308	2.355	2.762	2.831	2.831	2.831	2.541	2.541	2.571	2.631	2.631	2.866	3.121	2.977	2.631	2.541	2.380	2.355	2.331	
NFB8	3.225	3.183	3.183	3.183	3.183	3.183	3.269	4.090	4.254	4.254	4.254	3.621	3.621	3.680	3.805	3.805	4.343	4.866	4.639	3.805	3.621	3.314	3.269	3.225	
FBSD	2.940	2.928	2.928	2.928	2.928	2.928	2.952	3.734	3.897	3.897	3.897	3.269	3.269	3.327	3.451	3.451	3.985	4.505	4.279	3.451	3.269	2.965	2.952	2.940	
Total composite emission factor (g/Veh/km)		1.0313	0.8059	0.8494	0.8920	0.8361	0.8629	0.7400	0.8733	1.7204	1.9131	1.6542	1.3857	1.4424	1.4409	1.5224	1.5167	1.7170	1.8580	1.5098	0.8559	0.8092	1.0033	1.1563	1.4128
Total composite emission factor (g/Veh/mile)		1.66	1.30	1.37	1.44	1.35	1.07	1.19	1.41	2.77	3.09	2.67	2.24	2.33	2.32	2.46	2.45	2.77	3.00	2.44	1.38	1.31	1.62	1.86	2.28

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

District: Tuen Mun Fill Bank
 Road Section: TMS_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	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	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	FBD	2	1	1	0	0	0	2	4	4	1	1	1	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	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	1	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	1	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	13	13	11	9	8	8	7	7
Total Flow (veh)		40	25	23	21	21	44	97	286	741	845	832	801	744	693	803	804	768	755	798	552	468	186	104	71

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	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.031	0.032	0.032	0.032	0.029	0.029	0.029	0.029	0.028	0.032	0.032	0.032	0.032	0.032	0.032	0.027	0.026	0.026
LGV3	0.525	0.525	0.525	0.525	0.525	0.525	0.526	0.649	0.660	0.660	0.673	0.582	0.582	0.582	0.590	0.566	0.673	0.673	0.673	0.660	0.660	0.526	0.526	0.525	0.525
LGV4	0.471	0.470	0.470	0.470	0.470	0.470	0.472	0.604	0.617	0.617	0.630	0.533	0.533	0.533	0.542	0.516	0.630	0.630	0.630	0.617	0.617	0.474	0.472	0.471	0.471
PLB	0.923	0.917	0.917	0.917	0.917	0.917	0.929	1.052	1.062	1.062	1.072	0.991	0.991	0.991	0.999	0.976	1.072	1.072	1.072	1.062	1.062	0.935	0.929	0.923	0.923
HGV7	1.135	1.134	1.134	1.134	1.134	1.134	1.135	1.367	1.388	1.388	1.410	1.243	1.243	1.243	1.259	1.214	1.410	1.410	1.410	1.388	1.388	1.136	1.135	1.135	1.135
HGV8	1.408	1.407	1.407	1.407	1.407	1.407	1.408	1.744	1.774	1.774	1.806	1.563	1.563	1.563	1.586	1.520	1.806	1.806	1.806	1.774	1.774	1.409	1.408	1.408	1.408
HGV8	2.515	2.482	2.482	2.482	2.482	2.482	2.550	3.340	3.411	3.411	3.486	2.929	2.929	2.929	2.980	2.833	3.486	3.486	3.486	3.411	3.411	2.586	2.550	2.515	2.515
FBD	2.962	2.954	2.954	2.954	2.954	2.954	2.971	3.961	4.055	4.055	4.153	3.424	3.424	3.424	3.491	3.299	4.153	4.153	4.153	4.055	4.055	2.979	2.971	2.962	2.962
MC	0.298	0.298	0.298	0.298	0.298	0.298	0.299	0.322	0.324	0.324	0.327	0.310	0.310	0.310	0.312	0.307	0.327	0.327	0.327	0.324	0.324	0.300	0.299	0.299	0.299
TAXI	0.406	0.403	0.403	0.403	0.403	0.403	0.408	0.460	0.465	0.465	0.469	0.435	0.435	0.435	0.438	0.429	0.469	0.469	0.469	0.465	0.465	0.411	0.408	0.406	0.406
PV4	0.449	0.448	0.448	0.448	0.448	0.448	0.449	0.499	0.504	0.504	0.510	0.469	0.469	0.472	0.463	0.510	0.510	0.510	0.504	0.504	0.451	0.449	0.449	0.449	0.449
PV5	0.611	0.605	0.605	0.605	0.605	0.605	0.618	0.754	0.764	0.764	0.775	0.688	0.688	0.688	0.696	0.671	0.775	0.775	0.775	0.764	0.764	0.625	0.618	0.611	0.611
NFB6	1.316	1.302	1.302	1.302	1.302	1.302	1.330	1.607	1.627	1.627	1.648	1.473	1.473	1.473	1.491	1.438	1.648	1.648	1.648	1.627	1.627	1.344	1.330	1.316	1.316
NFB7	2.331	2.308	2.308	2.308	2.308	2.308	2.355	2.831	2.866	2.866	2.903	2.601	2.601	2.601	2.631	2.541	2.903	2.903	2.903	2.866	2.866	2.380	2.355	2.331	2.331
NFB8	3.225	3.183	3.183	3.183	3.183	3.183	3.269	4.254	4.343	4.343	4.436	3.741	3.741	3.741	3.805	3.621	4.436	4.436	4.436	4.343	4.343	3.314	3.269	3.225	3.225
FBSD	2.940	2.928	2.928	2.928	2.928	2.928	2.952	3.897	3.985	3.985	4.078	3.388	3.388	3.388	3.451	3.269	4.078	4.078	4.078	3.985	3.985	2.965	2.952	2.940	2.940
Total composite emission factor (g/Veh/km)		1.1495	0.8371	0.8852	0.8920	0.8361	0.6629	0.7474	0.8771	1.5140	1.5507	1.2710	1.0547	1.1150	1.0995	1.1486	1.0989	1.2503	1.2432	1.3124	0.9533	0.9531	1.0557	1.2948	1.6124
Total composite emission factor (g/Veh/mile)		1.85	1.35	1.43	1.44	1.35	1.07	1.21	1.41	2.44	2.50	2.05	1.70	1.80	1.77	1.85	1.77	2.02	2.01	2.12	1.54	1.54	1.70	2.09	2.60

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	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		
3	LGV4	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0		
4	PLB	0	0	0	0	0	0	0	2	2	2	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		
6	HGV7	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		
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		
Total Flow (veh)		0	0	0	0	0	2	21	47	55	31	24	24	24	31	24	24	31	31	14	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	0.030	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	
LGV3	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	
LGV4	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561		
PLB	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016		
LGV6	1.292	1.292	1.292	1.292	1.292	1.292	1.292	1.292	1.292	1.292	1.292	1.292	1.292	1.292	1.292	1.292	1.292	1.292	1.292	1.292	1.292	1.292		
HGV7	1.634	1.634	1.634	1.634	1.634	1.634	1.634	1.634	1.634	1.634	1.634	1.634	1.634	1.634	1.634	1.634	1.634	1.634	1.634	1.634	1.634	1.634		
HGV8	3.089	3.089	3.089	3.089	3.089	3.089	3.089	3.089	3.089	3.089	3.089	3.089	3.089	3.089	3.089	3.089	3.089	3.089	3.089	3.089	3.089	3.089		
FBDD	3.633	3.633	3.633	3.633	3.633	3.633	3.633	3.633	3.633	3.633	3.633	3.633	3.633	3.633	3.633	3.633	3.633	3.633	3.633	3.633	3.633	3.633		
MC	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315		
TAXI	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445		
PV4	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		
PV5	0.715	0.715	0.715	0.715	0.715	0.715	0.715	0.715	0.715	0.715	0.715	0.715	0.715	0.715	0.715	0.715	0.715	0.715	0.715	0.715	0.715	0.715		
NFB6	1.528	1.528	1.528	1.528	1.528	1.528	1.528	1.528	1.528	1.528	1.528	1.528	1.528	1.528	1.528	1.528	1.528	1.528	1.528	1.528	1.528	1.528		
NFB7	2.695	2.695	2.695	2.695	2.695	2.695	2.695	2.695	2.695	2.695	2.695	2.695	2.695	2.695	2.695	2.695	2.695	2.695	2.695	2.695	2.695	2.695		
NFB8	3.941	3.941	3.941	3.941	3.941	3.941	3.941	3.941	3.941	3.941	3.941	3.941	3.941	3.941	3.941	3.941	3.941	3.941	3.941	3.941	3.941	3.941		
FBSD	3.586	3.586	3.586	3.586	3.586	3.586	3.586	3.586	3.586	3.586	3.586	3.586	3.586	3.586	3.586	3.586	3.586	3.586	3.586	3.586	3.586	3.586		
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.2374	1.5744	1.5335	1.4730	1.4609	1.5825	1.5825	1.5825	1.4609	1.5825	1.5825	1.4609	1.4609	1.2337	2.0694	0.0000		
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.38	2.54	2.47	2.38	2.36	2.55	2.55	2.55	2.36	2.55	2.55	2.36	2.36	1.99	3.34	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	PC	0	0	0	0	0	0	0	0	2	3	2	1	0	1	1	2	0	1	1	2	1	0	0	
2	LGV3	0	0	0	0	0	0	0	0	1	0	1	0	1	1	1	0	1	1	1	1	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		
4	PLB	0	0	0	0	0	0	0	0	2	2	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		
6	HGV7	0	0	0	0	0	0	0	1	3	3	2	2	2	2	2	2	2	2	2	2	0	0		
7	HGV8	0	0	0	0	0	0	0	0	2	2	0	1	0	0	0	1	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		
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	1	0	0	1	0	1	0	0	0	1	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		
Total Flow (veh)		0	0	0	0	0	0	0	2	11	12	5	5	4	5	5	4	5	4	5	3	0	1	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	0.028	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
LGV3	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.574	0.574
LGV4	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524
PLB	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
LGV6	1.228	1.228	1.228	1.228	1.228	1.228	1.228	1.228	1.228	1.228	1.228	1.228	1.228	1.228	1.228	1.228	1.228	1.228	1.228	1.228	1.228	1.228	1.228	1.228
HGV7	1.541	1.541	1.541	1.541	1.541	1.541	1.541	1.541	1.541	1.541	1.541	1.541	1.541	1.541	1.541	1.541	1.541	1.541	1.541	1.541	1.541	1.541	1.541	1.541
HGV8	2.880	2.880	2.880	2.880	2.880	2.880	2.880	2.880	2.880	2.880	2.880	2.880	2.880	2.880	2.880	2.880	2.880	2.880	2.880	2.880	2.880	2.880	2.880	2.880
FBDD	3.360	3.360	3.360	3.360	3.360	3.360	3.360	3.360	3.360	3.360	3.360	3.360	3.360	3.360	3.360	3.360	3.360	3.360	3.360	3.360	3.360	3.360	3.360	3.360
MC	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309
TAXI	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432
PV4	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466
PV5	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679
NFB6	1.455	1.455	1.455	1.455	1.455	1.455	1.455	1.455	1.455	1.455	1.455	1.455	1.455	1.455	1.455	1.455	1.455	1.455	1.455	1.455	1.455	1.455	1.455	1.455
NFB7	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571
NFB8	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680
FBSD	3.327	3.327	3.327	3.327	3.327	3.327	3.327	3.327	3.327	3.327	3.327	3.327	3.327	3.327	3.327	3.327	3.327	3.327	3.327	3.327	3.327	3.327	3.327	3.327
Total composite emission factor (g/Veh/km)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.2108	1.2279	1.1824	0.7427	1.2846	0.9213	0.8233	0.7427	1.5986	0.8233	0.9213	0.7427	0.3446	0.0000	0.0284	0.0000	0.0000
Total composite emission factor (g/Veh/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.57	1.98	1.91	1.20	2.07	1.49	1.33	1.20	2.58	1.33	1.49	1.20	0.56	0.00	0.05	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	9	5	6	8	8	6	1	1	0	0	0
2	LG3	0	0	0	0	0	0	0	0	2	1	2	1	2	2	1	2	2	2	2	2	2	0	0	0
3	LG4	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	11	11	13	13	2	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	7	15	16	8	8	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
Total Flow (veh)		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	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	0.030	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
LG3	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617
LG4	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571
PLB	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024
LGV6	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310
HGV7	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660
HGV8	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148
FBDD	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709
MC	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317
TAXI	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449
PV4	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484
PV5	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724
NFB6	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547
NFB7	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728
NFB8	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014
FBSD	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.2394	1.6712	1.5150	1.4578	1.3905	1.5718	1.5216	1.4846	1.3905	1.6269	1.3614	1.4294	1.3905	1.0983	2.1084	0.0301	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.39	2.70	2.44	2.35	2.24	2.54	2.45	2.39	2.24	2.62	2.20	2.31	2.24	1.77	3.40	0.05	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	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	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	3	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
Total Flow (veh)		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	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	0.030	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	0.030
LGV3	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617
LGV4	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571
PLB	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024
LGV6	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310	1.310
HGV7	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660
HGV8	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148	3.148
FBDD	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709	3.709
MC	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317	0.317
TAXI	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449	0.449
PV4	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484
PV5	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724
NFB6	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547	1.547
NFB7	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728	2.728
NFB8	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014	4.014
FBSD	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658	3.658
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2394	1.6712	1.5150	1.4578	1.3905	1.5718	1.5216	1.4846	1.3905	1.6269	1.3614	1.4294	1.3905	1.0983	2.1084	0.0301	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.39	2.70	2.44	2.35	2.24	2.54	2.45	2.39	2.24	2.62	2.20	2.31	2.24	1.77	3.40	0.05	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	2	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	3	6	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	5	6	6	6	6	6	6	6	5	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
Total Flow (veh)		35	21	19	17	17	37	85	228	595	684	720	700	649	600	693	704	676	646	688	478	420	168	91	69

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	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.031	0.032	0.032	0.032	0.032	0.029	0.029	0.029	0.028	0.032	0.032	0.032	0.032	0.032	0.032	0.027	0.026	0.026
LGV3	0.525	0.525	0.525	0.525	0.525	0.525	0.526	0.649	0.660	0.660	0.673	0.582	0.582	0.582	0.590	0.566	0.673	0.673	0.673	0.660	0.660	0.526	0.526	0.525	0.525
LGV4	0.471	0.470	0.470	0.470	0.470	0.470	0.472	0.604	0.617	0.617	0.630	0.533	0.533	0.533	0.542	0.516	0.630	0.630	0.630	0.617	0.617	0.474	0.472	0.471	0.471
PLB	0.923	0.917	0.917	0.917	0.917	0.917	0.929	1.052	1.062	1.062	1.072	0.991	0.991	0.991	0.999	0.976	1.072	1.072	1.072	1.062	1.062	0.935	0.929	0.923	0.923
LGV6	1.135	1.134	1.134	1.134	1.134	1.134	1.135	1.367	1.388	1.388	1.410	1.243	1.243	1.243	1.259	1.214	1.410	1.410	1.410	1.388	1.388	1.136	1.135	1.135	
HGV7	1.408	1.407	1.407	1.407	1.407	1.407	1.408	1.744	1.774	1.774	1.806	1.563	1.563	1.563	1.586	1.520	1.806	1.806	1.806	1.774	1.774	1.409	1.408	1.408	
HGV8	2.515	2.482	2.482	2.482	2.482	2.482	2.550	3.340	3.411	3.411	3.486	2.929	2.929	2.929	2.980	2.833	3.486	3.486	3.486	3.411	3.411	2.586	2.550	2.515	2.515
FBDD	2.962	2.954	2.954	2.954	2.954	2.954	2.971	3.961	4.055	4.055	4.153	3.424	3.424	3.424	3.491	3.299	4.153	4.153	4.153	4.055	4.055	2.979	2.971	2.962	2.962
MC	0.299	0.298	0.298	0.298	0.298	0.298	0.299	0.322	0.324	0.324	0.327	0.310	0.310	0.310	0.312	0.307	0.327	0.327	0.327	0.324	0.324	0.300	0.299	0.299	0.299
TAXI	0.406	0.403	0.403	0.403	0.403	0.403	0.408	0.460	0.465	0.465	0.469	0.435	0.435	0.435	0.438	0.429	0.469	0.469	0.469	0.465	0.465	0.411	0.408	0.406	0.406
PV4	0.449	0.448	0.448	0.448	0.448	0.448	0.449	0.499	0.504	0.504	0.510	0.469	0.469	0.469	0.472	0.463	0.510	0.510	0.510	0.504	0.504	0.451	0.449	0.449	0.449
PV5	0.611	0.605	0.605	0.605	0.605	0.605	0.618	0.754	0.764	0.764	0.775	0.688	0.688	0.688	0.696	0.671	0.775	0.775	0.775	0.764	0.764	0.625	0.618	0.611	0.611
NFB6	1.316	1.302	1.302	1.302	1.302	1.302	1.330	1.607	1.627	1.627	1.648	1.473	1.473	1.473	1.491	1.438	1.648	1.648	1.648	1.627	1.627	1.344	1.330	1.316	1.316
NFB7	2.331	2.308	2.308	2.308	2.308	2.308	2.355	2.831	2.866	2.866	2.903	2.601	2.601	2.601	2.631	2.541	2.903	2.903	2.903	2.866	2.866	2.380	2.355	2.331	2.331
NFB8	3.225	3.183	3.183	3.183	3.183	3.183	3.269	4.254	4.343	4.343	4.436	3.741	3.741	3.741	3.805	3.621	4.436	4.436	4.436	4.343	4.343	3.314	3.269	3.225	3.225
FBSD	2.940	2.928	2.928	2.928	2.928	2.928	2.952	3.897	3.985	3.985	4.078	3.388	3.388	3.388	3.451	3.269	4.078	4.078	4.078	3.985	3.985	2.965	2.952	2.940	2.940
Total composite emission factor (g/Veh/km)		1.2992	0.9736	1.0264	1.0736	1.0045	0.7177	0.8043	0.7589	1.4512	1.5001	1.2281	1.0087	1.0775	1.0620	1.1190	1.0640	1.2226	1.1903	1.2755	0.9053	0.9199	1.1370	1.4551	1.6584
Total composite emission factor (g/Veh/mile)		2.10	1.57	1.66	1.73	1.62	1.16	1.30	1.22	2.34	2.42	1.98	1.63	1.74	1.71	1.80	1.72	1.97	1.92	2.06	1.46	1.48	1.83	2.35	2.67

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	15	12	10	8	2	
2	LGV3	0	0	0	0	0	1	3	5	8	8	7	7	6	7	7	7	7	7	6	5	0	0		
3	LGV4	0	0	0	0	0	1	4	6	6	6	6	5	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	4	6	6	6	6	5	5	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	5	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	5	9	9	10	10	9	9	10	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		
Total Flow (veh)		5	4	4	4	4	7	10	35	88	94	76	72	67	64	74	72	65	74	74	57	45	17	13	2

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	0.033	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	
LGV3	0.699	0.699	0.699	0.699	0.699	0.699	0.699	0.699	0.699	0.699	0.699	0.699	0.699	0.699	0.699	0.699	0.699	0.699	0.699	0.699	0.699	0.699	0.699	0.699	
LGV4	0.658	0.658	0.658	0.658	0.658	0.658	0.658	0.658	0.658	0.658	0.658	0.658	0.658	0.658	0.658	0.658	0.658	0.658	0.658	0.658	0.658	0.658	0.658	0.658	
PLB	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	
LGV6	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	
HGV7	1.876	1.876	1.876	1.876	1.876	1.876	1.876	1.876	1.876	1.876	1.876	1.876	1.876	1.876	1.876	1.876	1.876	1.876	1.876	1.876	1.876	1.876	1.876	1.876	
HGV8	3.648	3.648	3.648	3.648	3.648	3.648	3.648	3.648	3.648	3.648	3.648	3.648	3.648	3.648	3.648	3.648	3.648	3.648	3.648	3.648	3.648	3.648	3.648	3.648	
FBDD	4.366	4.366	4.366	4.366	4.366	4.366	4.366	4.366	4.366	4.366	4.366	4.366	4.366	4.366	4.366	4.366	4.366	4.366	4.366	4.366	4.366	4.366	4.366	4.366	
MC	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	
TAXI	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.478	
PV4	0.523	0.523	0.523	0.523	0.523	0.523	0.523	0.523	0.523	0.523	0.523	0.523	0.523	0.523	0.523	0.523	0.523	0.523	0.523	0.523	0.523	0.523	0.523	0.523	
PV5	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	
NFB6	1.692	1.692	1.692	1.692	1.692	1.692	1.692	1.692	1.692	1.692	1.692	1.692	1.692	1.692	1.692	1.692	1.692	1.692	1.692	1.692	1.692	1.692	1.692	1.692	
NFB7	2.977	2.977	2.977	2.977	2.977	2.977	2.977	2.977	2.977	2.977	2.977	2.977	2.977	2.977	2.977	2.977	2.977	2.977	2.977	2.977	2.977	2.977	2.977	2.977	
NFB8	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.639	
FBSD	4.279	4.279	4.279	4.279	4.279	4.279	4.279	4.279	4.279	4.279	4.279	4.279	4.279	4.279	4.279	4.279	4.279	4.279	4.279	4.279	4.279	4.279	4.279	4.279	
Total composite emission factor (g/Veh/km)		0.1221	0.1444	0.2557	0.1444	0.1444	0.4845	0.4822	1.1509	1.9863	2.0351	1.6250	1.6377	1.6563	1.6194	1.6192	1.6377	1.5009	1.6192	1.6192	1.3691	1.2482	0.4029	0.2043	0.0331
Total composite emission factor (g/Veh/mile)		0.20	0.23	0.41	0.23	0.23	0.78	0.78	1.86	3.20	3.28	2.62	2.64	2.67	2.61	2.61	2.64	2.42	2.61	2.61	2.21	2.01	0.65	0.33	0.05

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	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	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	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	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	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	
Total Flow (veh)		7	4	2	2	0	4	31	70	169	184	118	103	102	97	112	109	109	110	112	64	35	16	13	4

NO 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	0.031	0.031	0.031	0.031	0.031	0.031	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.033	0.033	0.033	0.032	0.032	0.032	0.032	0.031
LGV3	0.638	0.638	0.638	0.638	0.638	0.638	0.660	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.685	0.685	0.685	0.673	0.673	0.673	0.638	0.638	
LGV4	0.593	0.593	0.593	0.593	0.593	0.593	0.617	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.643	0.643	0.643	0.630	0.630	0.630	0.593	0.593	
PLB	1.043	1.043	1.043	1.043	1.043	1.043	1.062	1.072	1.072	1.072	1.072	1.072	1.072	1.072	1.072	1.072	1.083	1.083	1.083	1.072	1.072	1.072	1.043	1.043	
LGV6	1.347	1.347	1.347	1.347	1.347	1.347	1.388	1.410	1.410	1.410	1.410	1.410	1.410	1.410	1.410	1.410	1.433	1.433	1.433	1.410	1.410	1.410	1.347	1.347	
HGV7	1.714	1.714	1.714	1.714	1.714	1.714	1.774	1.806	1.806	1.806	1.806	1.806	1.806	1.806	1.806	1.806	1.840	1.840	1.840	1.806	1.806	1.806	1.714	1.714	
HGV8	3.273	3.273	3.273	3.273	3.273	3.273	3.411	3.486	3.486	3.486	3.486	3.486	3.486	3.486	3.486	3.486	3.565	3.565	3.565	3.486	3.486	3.486	3.273	3.273	
FBDD	3.873	3.873	3.873	3.873	3.873	3.873	4.055	4.153	4.153	4.153	4.153	4.153	4.153	4.153	4.153	4.153	4.256	4.256	4.256	4.153	4.153	4.153	3.873	3.873	
MC	0.320	0.320	0.320	0.320	0.320	0.320	0.324	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.329	0.329	0.329	0.327	0.327	0.327	0.320	0.320	
TAXI	0.456	0.456	0.456	0.456	0.456	0.456	0.465	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.474	0.474	0.474	0.469	0.469	0.469	0.456	0.456	
PV4	0.494	0.494	0.494	0.494	0.494	0.494	0.504	0.510	0.510	0.510	0.510	0.510	0.510	0.510	0.510	0.510	0.516	0.516	0.516	0.510	0.510	0.510	0.494	0.494	
PV5	0.743	0.743	0.743	0.743	0.743	0.743	0.764	0.775	0.775	0.775	0.775	0.775	0.775	0.775	0.775	0.775	0.785	0.785	0.785	0.775	0.775	0.775	0.743	0.743	
NFB6	1.586	1.586	1.586	1.586	1.586	1.586	1.627	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.670	1.670	1.670	1.648	1.648	1.648	1.586	1.586	
NFB7	2.796	2.796	2.796	2.796	2.796	2.796	2.866	2.903	2.903	2.903	2.903	2.903	2.903	2.903	2.903	2.903	2.940	2.940	2.940	2.903	2.903	2.903	2.796	2.796	
NFB8	4.170	4.170	4.170	4.170	4.170	4.170	4.343	4.436	4.436	4.436	4.436	4.436	4.436	4.436	4.436	4.436	4.535	4.535	4.535	4.436	4.436	4.436	4.170	4.170	
FBSD	3.814	3.814	3.814	3.814	3.814	3.814	3.985	4.078	4.078	4.078	4.078	4.078	4.078	4.078	4.078	4.078	4.176	4.176	4.176	4.078	4.078	4.078	3.814	3.814	
Total composite emission factor (g/Veh/km)		0.2391	0.2890	0.2436	0.3343	0.0000	0.1826	0.7277	0.9389	1.4888	1.5027	1.3810	1.3448	1.4302	1.4214	1.4260	1.4164	1.4446	1.4317	1.3868	0.6755	0.7969	0.8078	0.3725	0.6408
Total composite emission factor (g/Veh/mile)		0.39	0.47	0.39	0.54	0.00	0.29	1.17	1.51	2.40	2.42	2.23	2.17	2.31	2.29	2.30	2.28	2.33	2.31	2.24	1.09	1.29	1.30	0.60	1.03

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	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	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	
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	
8	FBDD	2	1	1	0	0	0	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	5	5	5	5	5	5	5	5	5	5	5	4	4	3	4
10	TAXI	2	2	2	2	3	5	7	40	48	51	62	70	63	57	63	64	63	63	63	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	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	13	13	13	14	11	9	8	7
Total Flow (veh)		28	17	17	15	17	33	54	158	426	500	602	597	547	503	581	595	567	536	576	414	385	152	78	65

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	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.031	0.032	0.032	0.032	0.029	0.029	0.029	0.029	0.028	0.032	0.032	0.032	0.032	0.032	0.032	0.027	0.026	0.026
LGV3	0.525	0.525	0.525	0.525	0.525	0.525	0.526	0.649	0.660	0.660	0.673	0.582	0.582	0.582	0.590	0.566	0.673	0.673	0.673	0.660	0.660	0.526	0.526	0.525	
LGV4	0.471	0.470	0.470	0.470	0.470	0.470	0.604	0.617	0.617	0.630	0.533	0.533	0.533	0.542	0.516	0.630	0.630	0.630	0.617	0.617	0.474	0.472	0.471		
PLB	0.923	0.917	0.917	0.917	0.917	0.917	0.929	1.052	1.062	1.062	1.072	0.991	0.991	0.991	0.999	0.976	1.072	1.072	1.072	1.062	1.062	0.935	0.929	0.923	
LGV6	1.135	1.134	1.134	1.134	1.134	1.134	1.135	1.367	1.388	1.388	1.410	1.243	1.243	1.243	1.259	1.214	1.410	1.410	1.410	1.388	1.388	1.136	1.135	1.135	
HGV7	1.408	1.407	1.407	1.407	1.407	1.407	1.408	1.744	1.774	1.774	1.806	1.563	1.563	1.563	1.586	1.520	1.806	1.806	1.806	1.774	1.774	1.409	1.408	1.408	
HGV8	2.515	2.482	2.482	2.482	2.482	2.482	2.550	3.340	3.411	3.411	3.486	2.929	2.929	2.929	2.980	2.833	3.486	3.486	3.486	3.411	3.411	2.586	2.550	2.515	
FBDD	2.962	2.954	2.954	2.954	2.954	2.954	2.971	3.961	4.055	4.055	4.153	3.424	3.424	3.424	3.491	3.299	4.153	4.153	4.153	4.055	4.055	2.979	2.971	2.962	
MC	0.299	0.298	0.298	0.298	0.298	0.298	0.299	0.322	0.324	0.324	0.327	0.310	0.310	0.310	0.312	0.307	0.327	0.327	0.327	0.324	0.324	0.300	0.299	0.299	
TAXI	0.406	0.403	0.403	0.403	0.403	0.403	0.408	0.460	0.465	0.465	0.469	0.435	0.435	0.435	0.438	0.429	0.469	0.469	0.469	0.465	0.465	0.411	0.408	0.406	
PV4	0.449	0.448	0.448	0.448	0.448	0.448	0.449	0.499	0.504	0.504	0.510	0.469	0.469	0.469	0.472	0.463	0.510	0.510	0.510	0.504	0.504	0.451	0.449	0.449	
PV5	0.611	0.605	0.605	0.605	0.605	0.605	0.618	0.754	0.764	0.764	0.775	0.688	0.688	0.688	0.696	0.671	0.775	0.775	0.775	0.764	0.764	0.625	0.618	0.611	
NFB6	1.316	1.302	1.302	1.302	1.302	1.302	1.330	1.607	1.627	1.627	1.648	1.473	1.473	1.473	1.491	1.438	1.648	1.648	1.648	1.627	1.627	1.344	1.330	1.316	
NFB7	2.331	2.308	2.308	2.308	2.308	2.308	2.355	2.831	2.866	2.866	2.903	2.601	2.601	2.601	2.631	2.541	2.903	2.903	2.903	2.866	2.866	2.380	2.355	2.331	
NFB8	3.225	3.183	3.183	3.183	3.183	3.183	3.269	4.254	4.343	4.343	4.436	3.741	3.741	3.741	3.805	3.621	4.436	4.436	4.436	4.343	4.343	3.314	3.269	3.225	
FBSD	2.940	2.928	2.928	2.928	2.928	2.928	2.952	3.897	3.985	3.985	4.078	3.388	3.388	3.388	3.451	3.269	4.078	4.078	4.078	3.985	3.985	2.965	2.952	2.940	
Total composite emission factor (g/Veh/km)		1.5725	1.1450	1.1219	1.1800	1.0045	0.7865	0.9350	0.6933	1.4477	1.5098	1.1981	0.9835	1.0498	1.0317	1.0954	1.0429	1.1853	1.1465	1.2591	0.9427	0.9324	1.1900	1.6472	1.7281
Total composite emission factor (g/Veh/mile)		2.54	1.85	1.81	1.90	1.62	1.27	1.51	1.12	2.33	2.44	1.93	1.59	1.69	1.66	1.77	1.68	1.91	1.85	2.03	1.52	1.50	1.92	2.66	2.79

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	3	4	3	1	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	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	16	14	1	2	0	0		
7	HGV8	0	0	0	0	0	0	1	2	24	27	16	12	15	14	17	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	0	0	0		
10	TAXI	1	0	1	0	0	0	3	9	13	15	2	2	1	2	1	2	1	2	1	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		
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	2	2	2	1	1	1	1	1	1	1	1	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	2	2	2	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		
Total Flow (veh)		5	2	2	2	0	3	19	46	114	125	58	50	53	49	56	56	56	54	54	22	12	5	10	4

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	
PC	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	0.028
LGV3	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559
LGV4	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508
PLB	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	0.969
LGV6	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	1.200
HGV7	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500
HGV8	2.788	2.788	2.788	2.788	2.788	2.788	2.788	2.788	2.788	2.788	2.788	2.788	2.788	2.788	2.788	2.788	2.788	2.788	2.788	2.788	2.788	2.788	2.788	2.788	2.788
FBDD	3.241	3.241	3.241	3.241	3.241	3.241	3.241	3.241	3.241	3.241	3.241	3.241	3.241	3.241	3.241	3.241	3.241	3.241	3.241	3.241	3.241	3.241	3.241	3.241	3.241
MC	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306
TAXI	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425
PV4	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460
PV5	0.662	0.662	0.662	0.662	0.662	0.662	0.662	0.662	0.662	0.662	0.662	0.662	0.662	0.662	0.662	0.662	0.662	0.662	0.662	0.662	0.662	0.662	0.662	0.662	0.662
NFB6	1.421	1.421	1.421	1.421	1.421	1.421	1.421	1.421	1.421	1.421	1.421	1.421	1.421	1.421	1.421	1.421	1.421	1.421	1.421	1.421	1.421	1.421	1.421	1.421	1.421
NFB7	2.513	2.513	2.513	2.513	2.513	2.513	2.513	2.513	2.513	2.513	2.513	2.513	2.513	2.513	2.513	2.513	2.513	2.513	2.513	2.513	2.513	2.513	2.513	2.513	2.513
NFB8	3.565	3.565	3.565	3.565	3.565	3.565	3.565	3.565	3.565	3.565	3.565	3.565	3.565	3.565	3.565	3.565	3.565	3.565	3.565	3.565	3.565	3.565	3.565	3.565	3.565
FBSD	3.213	3.213	3.213	3.213	3.213	3.213	3.213	3.213	3.213	3.213	3.213	3.213	3.213	3.213	3.213	3.213	3.213	3.213	3.213	3.213	3.213	3.213	3.213	3.213	3.213
Total composite emission factor (g/Veh/km)		0.2136	0.2933	0.2267	0.2933	0.0000	0.2048	0.5712	0.7878	1.2078	1.2252	1.4437	1.3646	1.4899	1.4864	1.5532	1.4481	1.4481	1.5313	1.4224	0.5195	0.8296	0.5440	0.3669	0.5611
Total composite emission factor (g/Veh/mile)		0.34	0.47	0.37	0.47	0.00	0.33	0.92	1.27	1.95	1.98	2.33	2.20	2.40	2.40	2.51	2.34	2.34	2.47	2.29	0.84	1.34	0.88	0.59	0.90

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	14	15	13	8	3	2	0	
2	LGV3	0	0	0	0	0	0	2	3	5	6	8	7	6	6	8	7	8	8	6	3	2	0		
3	LGV4	0	0	0	0	0	0	2	4	5	7	5	5	5	6	5	5	6	6	5	4	1	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	0	2	4	5	7	5	5	5	6	5	5	6	6	5	3	1	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	0	1	2	14	15	5	5	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	0	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		
Total Flow (veh)		2	2	0	0	0	1	12	24	55	59	60	53	49	48	56	53	53	56	58	42	23	11	3	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	0.028	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	
LGV3	0.566	0.566	0.566	0.566	0.566	0.566	0.566	0.566	0.566	0.566	0.566	0.566	0.566	0.566	0.566	0.566	0.566	0.566	0.566	0.566	0.566	0.566	0.566	0.566	
LGV4	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	
PLB	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	
LGV6	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	
HGV7	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	
HGV8	2.833	2.833	2.833	2.833	2.833	2.833	2.833	2.833	2.833	2.833	2.833	2.833	2.833	2.833	2.833	2.833	2.833	2.833	2.833	2.833	2.833	2.833	2.833	2.833	
FBDD	3.299	3.299	3.299	3.299	3.299	3.299	3.299	3.299	3.299	3.299	3.299	3.299	3.299	3.299	3.299	3.299	3.299	3.299	3.299	3.299	3.299	3.299	3.299	3.299	
MC	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	
TAXI	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429	
PV4	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	
PV5	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	
NFB6	1.438	1.438	1.438	1.438	1.438	1.438	1.438	1.438	1.438	1.438	1.438	1.438	1.438	1.438	1.438	1.438	1.438	1.438	1.438	1.438	1.438	1.438	1.438	1.438	
NFB7	2.541	2.541	2.541	2.541	2.541	2.541	2.541	2.541	2.541	2.541	2.541	2.541	2.541	2.541	2.541	2.541	2.541	2.541	2.541	2.541	2.541	2.541	2.541	2.541	
NFB8	3.621	3.621	3.621	3.621	3.621	3.621	3.621	3.621	3.621	3.621	3.621	3.621	3.621	3.621	3.621	3.621	3.621	3.621	3.621	3.621	3.621	3.621	3.621	3.621	
FBSD	3.269	3.269	3.269	3.269	3.269	3.269	3.269	3.269	3.269	3.269	3.269	3.269	3.269	3.269	3.269	3.269	3.269	3.269	3.269	3.269	3.269	3.269	3.269	3.269	
Total composite emission factor (g/Veh/km)		0.2283	0.2283	0.0000	0.0000	0.0000	0.0282	0.6972	0.7825	1.2582	1.2567	0.8452	0.8723	0.8425	0.8511	0.7970	0.8723	0.8723	0.7970	0.8445	0.5947	0.5769	0.7416	0.1616	0.0000
Total composite emission factor (g/Veh/mile)		0.37	0.37	0.00	0.00	0.00	0.05	1.12	1.26	2.03	2.03	1.36	1.41	1.36	1.37	1.29	1.41	1.41	1.29	1.36	0.96	0.93	1.20	0.26	0.00

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	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	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	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	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	0	0
5	LGVB	0	0	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	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	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	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	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	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	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	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	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	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	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	0	0
Total Flow (veh)		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0	0	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	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058
LGV3	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393
LGV4	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368
PLB	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793
LGVB	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659
HGV7	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680
HGV8	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501
FBDD	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897
MC	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408
TAXI	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683
PV4	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766
PV5	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574
NFB6	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357
NFB7	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931
NFB8	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732
FBSD	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.7729	7.7698	7.7923	7.7743	7.7899	7.7936	7.7708	7.7912	7.7832	7.7625	7.7970	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.54	12.53	12.57	12.54	12.56	12.57	12.53	12.57	12.55	12.52	12.58	0.00	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	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	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	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0	
8	FBD	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	
Total Flow (veh)		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
PC	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058
LGV3	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393
LGV4	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368
PLB	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793
LGV6	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659
HGV7	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680
HGV8	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501
FBD	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897
MC	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408
TAXI	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683
PV4	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766
PV5	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574
NFB6	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357
NFB7	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931
NFB8	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732
FBSD	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339

Total composite emission factor (g/Veh/km)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.7729	7.7698	7.7923	7.7743	7.7899	7.7936	7.7708	7.7912	7.7832	7.7625	7.7970	0.0000	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.54	12.53	12.57	12.54	12.56	12.57	12.53	12.57	12.55	12.52	12.58	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	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	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	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	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	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	0
6	HGV7	0	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	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	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	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	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	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	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	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	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	0
Total Flow (veh)		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0	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	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058
LGV3	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393
LGV4	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368
PLB	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793
LGV6	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659
HGV7	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680
HGV8	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501
FBDD	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897
MC	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408
TAXI	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683
PV4	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766
PV5	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574
NFB6	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357
NFB7	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931
NFB8	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732
FBSD	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.7729	7.7698	7.7923	7.7743	7.7899	7.7936	7.7708	7.7912	7.7832	7.7625	7.7970	0.0000	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.54	12.53	12.57	12.54	12.56	12.57	12.53	12.57	12.55	12.52	12.58	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0	0
Total Flow (veh)		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0	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	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		
PC	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058
LGV3	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393
LGV4	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368	1.368
PLB	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793	1.793
LGV6	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659	2.659
HGV7	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680
HGV8	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501	8.501
FBDD	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897	10.897
MC	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408
TAXI	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683
PV4	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766
PV5	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574	1.574
NFB6	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357	3.357
NFB7	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931	5.931
NFB8	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732	10.732
FBSD	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.7729	7.7698	7.7923	7.7743	7.7899	7.7936	7.7708	7.7912	7.7832	7.7625	7.7970	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.54	12.53	12.57	12.54	12.56	12.57	12.53	12.57	12.55	12.52	12.58	0.00	0.00	0.00	0.00	0.00	0.00

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

0414816 TMFB

Pollutant Name: PM10 (g/veh/km)

Speed km/hr	PC	LGV3	LGV4	PLB	LGV6	HGV7	HGV8	HGV8b	FBDD	MC	TAXI	PV4	PV5	NFB6	NFB7	NFB8	FBSD
	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
10	0.012	0.043	0.047	0.067	0.093	0.160	0.341	0.128	0.326	0.022	0.000	0.073	0.097	0.162	0.143	0.494	0.278
17	0.008	0.034	0.038	0.048	0.073	0.096	0.233	0.092	0.247	0.016	0.000	0.057	0.073	0.121	0.098	0.351	0.214
18	0.008	0.033	0.037	0.046	0.071	0.091	0.223	0.088	0.239	0.016	0.000	0.055	0.071	0.117	0.094	0.338	0.208
27	0.005	0.026	0.029	0.034	0.059	0.065	0.168	0.068	0.187	0.011	0.000	0.042	0.050	0.084	0.072	0.261	0.166
28	0.005	0.026	0.028	0.034	0.058	0.063	0.164	0.067	0.183	0.011	0.000	0.041	0.049	0.081	0.070	0.255	0.163
29	0.005	0.025	0.028	0.033	0.057	0.061	0.160	0.065	0.179	0.010	0.000	0.040	0.047	0.078	0.068	0.249	0.160
30	0.005	0.024	0.027	0.032	0.056	0.059	0.157	0.064	0.175	0.010	0.000	0.039	0.046	0.076	0.067	0.244	0.157
31	0.004	0.024	0.026	0.031	0.055	0.058	0.153	0.063	0.171	0.010	0.000	0.038	0.044	0.074	0.065	0.239	0.154
32	0.004	0.023	0.026	0.030	0.054	0.057	0.150	0.062	0.168	0.010	0.000	0.037	0.043	0.072	0.064	0.234	0.151
33	0.004	0.023	0.025	0.030	0.054	0.055	0.147	0.060	0.164	0.009	0.000	0.036	0.042	0.070	0.063	0.229	0.148
34	0.004	0.022	0.025	0.029	0.053	0.054	0.144	0.059	0.161	0.009	0.000	0.035	0.040	0.068	0.062	0.225	0.146
35	0.004	0.022	0.024	0.029	0.052	0.053	0.141	0.058	0.158	0.009	0.000	0.034	0.039	0.066	0.061	0.221	0.143
36	0.004	0.021	0.024	0.028	0.052	0.052	0.139	0.057	0.156	0.008	0.000	0.033	0.038	0.064	0.060	0.217	0.141
37	0.004	0.021	0.023	0.028	0.051	0.051	0.136	0.056	0.153	0.008	0.000	0.033	0.037	0.063	0.059	0.213	0.139
38	0.003	0.020	0.023	0.027	0.051	0.050	0.134	0.055	0.151	0.008	0.000	0.032	0.036	0.061	0.058	0.210	0.137
39	0.003	0.020	0.022	0.027	0.050	0.049	0.131	0.054	0.148	0.008	0.000	0.031	0.036	0.060	0.057	0.206	0.135
40	0.003	0.020	0.022	0.026	0.050	0.048	0.129	0.053	0.146	0.008	0.000	0.030	0.035	0.059	0.056	0.203	0.133
41	0.003	0.019	0.021	0.026	0.049	0.047	0.127	0.053	0.144	0.007	0.000	0.030	0.034	0.058	0.055	0.200	0.131
42	0.003	0.019	0.021	0.026	0.049	0.047	0.125	0.052	0.142	0.007	0.000	0.029	0.034	0.057	0.054	0.197	0.130
43	0.003	0.018	0.020	0.025	0.049	0.046	0.123	0.051	0.140	0.007	0.000	0.029	0.033	0.056	0.054	0.194	0.128
44	0.003	0.018	0.020	0.025	0.048	0.045	0.121	0.050	0.138	0.007	0.000	0.028	0.033	0.055	0.053	0.191	0.126
45	0.003	0.018	0.020	0.025	0.048	0.045	0.120	0.050	0.136	0.007	0.000	0.027	0.032	0.055	0.052	0.188	0.125
50	0.003	0.016	0.018	0.024	0.047	0.042	0.112	0.046	0.129	0.006	0.000	0.025	0.031	0.052	0.049	0.176	0.119
51	0.002	0.016	0.018	0.024	0.047	0.041	0.111	0.046	0.129	0.006	0.000	0.025	0.031	0.052	0.049	0.176	0.119
52	0.002	0.016	0.017	0.024	0.046	0.041	0.111	0.046	0.128	0.006	0.000	0.024	0.030	0.052	0.048	0.176	0.119
53	0.002	0.015	0.017	0.024	0.046	0.041	0.111	0.046	0.128	0.006	0.000	0.024	0.030	0.051	0.048	0.176	0.119
54	0.002	0.015	0.017	0.023	0.046	0.040	0.110	0.046	0.128	0.006	0.000	0.023	0.030	0.051	0.047	0.176	0.119

EMFAC-HK Model (v 3.4) Key Assumptions:

Mode: EMFAC

Calendar Year 2019

Temperature and relative humidity 24 degree C, 77% (2017 average at Tuen Mun Weather Station)

Vehicle Population (external roads) Default

Vehicle Population (internal roads All HGV8 (year 2019) are of Euro V standard

Vehicle Accrual Default

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

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	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	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	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	8	6	6	5	8	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	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
Total Flow (veh)		61	33	30	24	24	47	113	331	1367	1643	1561	1464	1353	1281	1501	1480	1486	1437	1338	612	518	226	141	98

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	0.003	0.003	0.003	0.003	0.003	0.002	0.002
LGV3	0.016	0.015	0.015	0.015	0.015	0.015	0.016	0.022	0.026	0.026	0.022	0.019	0.019	0.018	0.019	0.019	0.022	0.025	0.024	0.020	0.020	0.016	0.016	0.016	
LGV4	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.024	0.028	0.028	0.024	0.021	0.021	0.020	0.021	0.021	0.025	0.028	0.026	0.022	0.022	0.018	0.018	0.017	
PLB	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.029	0.034	0.034	0.029	0.026	0.026	0.025	0.026	0.026	0.029	0.033	0.031	0.026	0.026	0.024	0.024	0.024	
LGV6	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.052	0.058	0.059	0.052	0.049	0.049	0.048	0.049	0.049	0.053	0.057	0.055	0.050	0.050	0.047	0.047	0.046	
HGV7	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.053	0.063	0.065	0.053	0.047	0.047	0.045	0.047	0.047	0.054	0.061	0.058	0.048	0.048	0.042	0.041	0.041	
HGV8	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.141	0.164	0.168	0.141	0.127	0.125	0.121	0.127	0.127	0.144	0.160	0.153	0.129	0.129	0.112	0.111	0.111	
FBDD	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.158	0.183	0.187	0.158	0.144	0.142	0.138	0.144	0.144	0.161	0.179	0.171	0.146	0.146	0.129	0.129	0.128	
MC	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.009	0.011	0.011	0.009	0.007	0.007	0.007	0.007	0.007	0.009	0.010	0.010	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	0.024	0.024	0.024	0.024	0.024	0.024	0.025	0.034	0.041	0.042	0.034	0.030	0.029	0.028	0.030	0.030	0.035	0.040	0.038	0.030	0.030	0.025	0.025	0.024	
PV5	0.030	0.030	0.030	0.030	0.030	0.030	0.031	0.039	0.049	0.050	0.039	0.034	0.034	0.033	0.034	0.034	0.040	0.047	0.044	0.035	0.035	0.031	0.031	0.030	
NFB6	0.052	0.051	0.051	0.051	0.051	0.051	0.052	0.066	0.081	0.084	0.066	0.058	0.057	0.055	0.058	0.058	0.068	0.078	0.074	0.059	0.059	0.052	0.052	0.052	
NFB7	0.048	0.048	0.048	0.048	0.048	0.048	0.049	0.061	0.070	0.072	0.061	0.055	0.054	0.053	0.055	0.055	0.062	0.068	0.065	0.056	0.056	0.049	0.049	0.048	
NFB8	0.176	0.176	0.176	0.176	0.176	0.176	0.221	0.255	0.261	0.221	0.200	0.197	0.191	0.200	0.200	0.225	0.249	0.239	0.203	0.203	0.176	0.176	0.176		
FBSD	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.143	0.163	0.166	0.143	0.131	0.130	0.126	0.131	0.131	0.146	0.160	0.154	0.133	0.133	0.119	0.119	0.119	
Total composite emission factor (g/Veh/km)		0.0330	0.0249	0.0263	0.0286	0.0261	0.0220	0.0305	0.0369	0.0999	0.1058	0.0785	0.0693	0.0698	0.0670	0.0715	0.0714	0.0814	0.0890	0.0796	0.0314	0.0310	0.0359	0.0406	0.0501
Total composite emission factor (g/Veh/mile)		0.05	0.04	0.04	0.05	0.04	0.04	0.05	0.06	0.16	0.17	0.13	0.11	0.11	0.11	0.12	0.13	0.14	0.13	0.05	0.05	0.06	0.07	0.08	

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	13	15	13	15	17	13	10	7	7	5	
2	LGV3	3	1	1	1	1	1	1	3	5	5	5	5	4	5	5	5	5	5	4	4	3	3	3	
3	LGV4	2	1	1	0	0	0	1	2	3	4	3	3	3	3	3	3	3	4	3	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	4	3	3	3	3	3	3	3	4	3	3	3	2		
6	HGV7	0	0	0	0	0	0	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	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	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	
Total Flow (veh)		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	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	0.008	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	0.033	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	0.033	
LGV4	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.037	0.037	0.037	0.037	0.037	
PLB	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.046	0.046	0.046	0.046	0.046	
LGV6	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.071	0.071	0.071	0.071	0.071	
HGV7	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.091	0.091	0.091	0.091	0.091	
HGV8	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.223	0.223	0.223	0.223	0.223	
FBDD	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.239	0.239	0.239	0.239	0.239	
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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.055	0.055	0.055	0.055	0.055	
PV5	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.071	0.071	0.071	0.071	0.071	
NFB6	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.117	0.117	0.117	0.117	0.117	
NFB7	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.094	0.094	0.094	0.094	0.094	
NFB8	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.351	0.351	0.351	0.351	0.351	0.351	0.351	0.351	0.351	0.351	0.351	0.338	0.338	0.338	0.338	0.338	
FBSD	0.208	0.208	0.208	0.208	0.208	0.208	0.208	0.208	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.208	0.208	0.208	0.208	0.208	
Total composite emission factor (g/Veh/km)		0.0265	0.0233	0.0260	0.0136	0.0136	0.0136	0.1124	0.1284	0.2045	0.2036	0.1968	0.1993	0.2012	0.1947	0.1953	0.1992	0.1990	0.1953	0.1948	0.0376	0.0445	0.0415	0.0279	0.0271
Total composite emission factor (g/Veh/mile)		0.04	0.04	0.04	0.02	0.02	0.02	0.18	0.21	0.33	0.33	0.32	0.32	0.32	0.31	0.31	0.32	0.32	0.31	0.31	0.06	0.07	0.07	0.05	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	188	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	FBD	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	6	6	6	5	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	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
Total Flow (veh)		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	0.004	0.005	0.004	0.003	0.003	0.003	0.003	0.002	0.002	0.002
LGV3	0.016	0.015	0.015	0.015	0.015	0.015	0.016	0.021	0.022	0.022	0.022	0.018	0.018	0.018	0.019	0.019	0.022	0.025	0.024	0.019	0.018	0.016	0.016	0.016	0.016
LGV4	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.023	0.024	0.024	0.024	0.020	0.020	0.020	0.021	0.021	0.025	0.028	0.026	0.021	0.020	0.018	0.018	0.017	0.017
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	0.025	0.026	0.026	0.029	0.033	0.031	0.026	0.025	0.024	0.024	0.024	0.024
LGV6	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.051	0.052	0.052	0.052	0.048	0.048	0.049	0.049	0.049	0.053	0.057	0.055	0.049	0.048	0.047	0.047	0.046	
HGV7	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.051	0.053	0.053	0.053	0.045	0.045	0.046	0.047	0.047	0.054	0.061	0.058	0.047	0.045	0.042	0.041	0.041	
HGV8	0.111	0.111	0.111	0.111	0.111	0.111	0.136	0.141	0.141	0.141	0.141	0.121	0.121	0.123	0.127	0.127	0.144	0.160	0.153	0.127	0.121	0.112	0.111	0.111	
FBD	0.128	0.128	0.128	0.128	0.128	0.128	0.129	0.153	0.158	0.158	0.158	0.138	0.138	0.140	0.144	0.144	0.161	0.179	0.171	0.144	0.138	0.129	0.129	0.128	
MC	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.008	0.009	0.009	0.009	0.007	0.007	0.007	0.007	0.007	0.009	0.010	0.007	0.007	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	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.025	0.033	0.034	0.034	0.034	0.028	0.028	0.029	0.030	0.030	0.035	0.040	0.038	0.030	0.028	0.025	0.025	0.024
PV5	0.030	0.030	0.030	0.030	0.030	0.030	0.031	0.037	0.039	0.039	0.039	0.033	0.033	0.033	0.034	0.034	0.040	0.047	0.044	0.034	0.033	0.031	0.031	0.030	
NFB6	0.052	0.051	0.051	0.051	0.051	0.051	0.052	0.063	0.066	0.066	0.066	0.055	0.055	0.056	0.058	0.058	0.068	0.078	0.074	0.058	0.055	0.052	0.052	0.052	
NFB7	0.048	0.048	0.048	0.048	0.048	0.048	0.049	0.059	0.061	0.061	0.061	0.053	0.053	0.054	0.055	0.055	0.062	0.068	0.065	0.055	0.053	0.049	0.049	0.048	
NFB8	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.213	0.221	0.221	0.221	0.191	0.191	0.194	0.200	0.200	0.225	0.249	0.239	0.200	0.191	0.176	0.176	0.176	
FBSD	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.139	0.143	0.143	0.143	0.126	0.126	0.128	0.131	0.131	0.146	0.160	0.154	0.131	0.126	0.119	0.119	0.119	
Total composite emission factor (g/Veh/km)		0.0381	0.0283	0.0295	0.0319	0.0290	0.0231	0.0266	0.0310	0.0650	0.0734	0.0634	0.0529	0.0553	0.0553	0.0586	0.0582	0.0658	0.0712	0.0568	0.0314	0.0294	0.0372	0.0441	0.0555
Total composite emission factor (g/Veh/mile)		0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.05	0.10	0.12	0.10	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	53	52	48	48	11	5	2	
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	1	1	1	3	2	7	10	14	32	34	49	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	
7	HGV8	0	0	0	0	0	0	4	28	156	179	80	70	80	73	94	90	64	84	99	31	23	8	2	
8	FBDD	2	1	1	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	6	6	6	5	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	11	9	8	8	7
Total Flow (veh)		40	25	23	21	21	44	97	286	741	845	832	801	744	693	803	804	768	755	798	552	468	186	104	71

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	0.003	0.002	0.002
LGV3	0.016	0.015	0.015	0.015	0.015	0.015	0.016	0.022	0.022	0.023	0.019	0.019	0.019	0.019	0.018	0.023	0.023	0.023	0.022	0.022	0.016	0.016	0.016	0.016	0.016
LGV4	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.024	0.025	0.025	0.025	0.021	0.021	0.021	0.021	0.020	0.025	0.025	0.025	0.025	0.025	0.018	0.018	0.017	0.017
PLB	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.029	0.029	0.029	0.030	0.028	0.028	0.028	0.028	0.025	0.030	0.030	0.030	0.029	0.029	0.024	0.024	0.024	0.024
LGV6	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.052	0.053	0.053	0.054	0.049	0.049	0.049	0.048	0.054	0.054	0.054	0.053	0.053	0.047	0.047	0.046	0.046	
HGV7	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.053	0.054	0.054	0.055	0.047	0.047	0.047	0.045	0.055	0.055	0.055	0.055	0.054	0.054	0.042	0.041	0.041	
HGV8	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.141	0.144	0.144	0.147	0.125	0.125	0.125	0.125	0.127	0.121	0.147	0.147	0.147	0.144	0.144	0.112	0.111	0.111
FBDD	0.128	0.128	0.128	0.128	0.128	0.128	0.129	0.158	0.161	0.161	0.164	0.142	0.142	0.142	0.144	0.138	0.164	0.164	0.164	0.161	0.161	0.129	0.129	0.128	0.128
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	0.007	0.007	0.007	0.009	0.009	0.009	0.009	0.009	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	0.000
PV4	0.024	0.024	0.024	0.024	0.024	0.024	0.025	0.034	0.035	0.035	0.036	0.029	0.029	0.029	0.030	0.028	0.036	0.036	0.036	0.035	0.035	0.025	0.025	0.024	0.024
PV5	0.030	0.030	0.030	0.030	0.030	0.030	0.031	0.039	0.040	0.040	0.042	0.034	0.034	0.034	0.034	0.033	0.042	0.042	0.042	0.040	0.040	0.031	0.031	0.030	0.030
NFB6	0.052	0.051	0.051	0.051	0.051	0.051	0.052	0.066	0.068	0.068	0.070	0.057	0.057	0.057	0.058	0.055	0.070	0.070	0.070	0.068	0.068	0.052	0.052	0.052	0.052
NFB7	0.048	0.048	0.048	0.048	0.048	0.048	0.049	0.061	0.062	0.062	0.063	0.054	0.054	0.054	0.055	0.053	0.063	0.063	0.063	0.062	0.062	0.049	0.049	0.048	0.048
NFB8	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.221	0.225	0.225	0.229	0.197	0.197	0.197	0.200	0.191	0.229	0.229	0.229	0.225	0.225	0.176	0.176	0.176	0.176
FBSD	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.143	0.146	0.146	0.148	0.130	0.130	0.130	0.131	0.126	0.148	0.148	0.148	0.146	0.146	0.119	0.119	0.119	0.119
Total composite emission factor (g/Veh/km)		0.0433	0.0293	0.0306	0.0319	0.0290	0.0231	0.0269	0.0311	0.0554	0.0586	0.0459	0.0374	0.0399	0.0395	0.0416	0.0395	0.0447	0.0447	0.0483	0.0352	0.0350	0.0393	0.0500	0.0641
Total composite emission factor (g/Veh/mile)		0.07	0.05	0.05	0.05	0.05	0.04	0.04	0.05	0.09	0.09	0.07	0.06	0.06	0.06	0.07	0.06	0.07	0.07	0.08	0.06	0.06	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	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	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	11	11	2	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	8	13	14	8	7	7	7	8	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	0	1	3	6	8	4	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	
Total Flow (veh)		0	0	0	0	0	0	2	21	47	55	31	24	24	24	31	24	31	31	14	3	0	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	0.020	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	0.027	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	0.050	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	0.049	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
HGV8	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131
FBDD	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
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	0.031	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
PV5	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
NFB6	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
NFB7	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
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	0.135	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

Total composite emission factor (g/Veh/km)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0017	0.0568	0.0556	0.0527	0.0527	0.0582	0.0582	0.0582	0.0527	0.0582	0.0582	0.0527	0.0527	0.0471	0.0886	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.09	0.08	0.09	0.09	0.09	0.08	0.09	0.09	0.08	0.08	0.08	0.14	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	1	2	1	0	1	0	0	
2	LGV3	0	0	0	0	0	0	0	1	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		
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	1	3	3	2	2	2	2	2	2	2	2	2	2	2	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		
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	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		
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		
Total Flow (veh)		0	0	0	0	0	0	2	11	12	5	5	4	5	5	4	5	4	5	3	0	1	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	
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	
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	
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	
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	
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	
HGV8	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	
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	
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	
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	0.029	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	
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	
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	
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	
NFB8	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	
FBSD	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	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0846	0.0436	0.0427	0.0232	0.0436	0.0283	0.0226	0.0232	0.0538	0.0226	0.0283	0.0232	0.0071	0.0000	0.0029	0.0000	
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.14	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	

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	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	1	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		
4	PLB	0	0	0	0	0	0	0	0	4	4	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		
6	HGV7	0	0	0	0	0	0	0	9	18	21	13	11	11	11	13	11	11	13	13	2	0	0		
7	HGV8	0	0	0	0	0	0	0	7	15	16	8	8	7	8	8	5	8	8	4	2	0	0		
8	FBSD	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	1	3	6	8	4	3	2	3	4	3	3	4	4	3	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		
Total Flow (veh)		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	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	0.020	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	0.023	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	
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	0.051	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	
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	0.050	
HGV8	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	
FBSD	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	
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	0.032	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	
PV5	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	
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	0.061	
NFB7	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	
NFB8	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	
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	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0017	0.0608	0.0548	0.0523	0.0497	0.0572	0.0552	0.0533	0.0497	0.0591	0.0473	0.0510	0.0497	0.0409	0.0902	0.0034	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09	0.08	0.08	0.09	0.09	0.09	0.08	0.10	0.08	0.08	0.08	0.07	0.15	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	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	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		
4	PLB	0	0	0	0	0	0	0	0	4	4	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		
6	HGV7	0	0	0	0	0	0	0	9	18	21	13	11	11	11	11	11	13	13	4	2	0	0		
7	HGV8	0	0	0	0	0	0	0	7	15	16	8	8	7	7	8	8	8	8	2	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	0	1	3	6	8	4	3	2	3	4	3	3	4	4	3	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		
Total Flow (veh)		0	0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	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	0.020	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	0.023	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
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	0.051	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
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	0.050
HGV8	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
FBDD	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
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	0.032	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
PV5	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
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	0.061
NFB7	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058
NFB8	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
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
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0017	0.0608	0.0548	0.0523	0.0497	0.0572	0.0552	0.0533	0.0497	0.0591	0.0473	0.0510	0.0497	0.0409	0.0902	0.0034	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09	0.08	0.08	0.09	0.09	0.09	0.08	0.10	0.08	0.08	0.08	0.07	0.15	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	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	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	
8	FBDD	2	1	1	0	0	0	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	6	6	5	6	6	6	6	6	6	6	6	5	4	4	4
10	TAXI	4	3	3	2	3	5	12	52	67	72	74	81	73	67	74	75	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
Total Flow (veh)		35	21	19	17	17	37	85	228	595	684	720	700	649	600	693	704	676	646	688	478	420	168	91	69

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	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.002	0.002	0.002
LGV3	0.016	0.015	0.015	0.015	0.015	0.015	0.016	0.022	0.022	0.022	0.023	0.019	0.019	0.019	0.019	0.018	0.023	0.023	0.023	0.022	0.022	0.016	0.016	0.016	0.016
LGV4	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.024	0.025	0.025	0.025	0.021	0.021	0.021	0.020	0.025	0.025	0.025	0.025	0.025	0.025	0.018	0.018	0.017	0.017
PLB	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.029	0.029	0.029	0.030	0.026	0.026	0.026	0.026	0.025	0.030	0.030	0.030	0.029	0.029	0.024	0.024	0.024	0.024
LGV6	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.052	0.053	0.053	0.054	0.049	0.049	0.049	0.049	0.048	0.054	0.054	0.054	0.053	0.053	0.047	0.047	0.046	0.046
HGV7	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.053	0.054	0.054	0.055	0.047	0.047	0.047	0.047	0.045	0.055	0.055	0.055	0.054	0.054	0.042	0.041	0.041	0.041
HGV8	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.141	0.144	0.144	0.147	0.125	0.125	0.125	0.127	0.127	0.147	0.147	0.144	0.144	0.112	0.111	0.111	0.111	0.111
FBDD	0.128	0.128	0.128	0.128	0.128	0.128	0.129	0.158	0.161	0.161	0.164	0.142	0.142	0.142	0.144	0.138	0.164	0.164	0.164	0.161	0.161	0.129	0.129	0.128	0.128
MC	0.006	0.006	0.006	0.006	0.006	0.006	0.009	0.009	0.009	0.009	0.009	0.007	0.007	0.007	0.007	0.007	0.009	0.009	0.009	0.009	0.009	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	0.000
PV4	0.024	0.024	0.024	0.024	0.024	0.024	0.025	0.034	0.035	0.035	0.036	0.029	0.029	0.029	0.030	0.028	0.036	0.036	0.036	0.035	0.035	0.025	0.025	0.024	0.024
PV5	0.030	0.030	0.030	0.030	0.030	0.030	0.031	0.039	0.040	0.040	0.042	0.034	0.034	0.034	0.034	0.033	0.042	0.042	0.042	0.040	0.040	0.031	0.031	0.030	0.030
NFB6	0.052	0.051	0.051	0.051	0.051	0.051	0.052	0.066	0.068	0.068	0.070	0.057	0.057	0.057	0.055	0.070	0.070	0.070	0.068	0.068	0.052	0.052	0.052	0.052	0.052
NFB7	0.048	0.048	0.048	0.048	0.048	0.048	0.049	0.061	0.062	0.062	0.063	0.054	0.054	0.054	0.055	0.053	0.063	0.063	0.063	0.062	0.062	0.049	0.049	0.048	0.048
NFB8	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.221	0.225	0.225	0.229	0.197	0.197	0.197	0.200	0.191	0.229	0.229	0.229	0.225	0.225	0.176	0.176	0.176	0.176
FBSD	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.143	0.146	0.146	0.148	0.130	0.130	0.130	0.131	0.126	0.148	0.148	0.148	0.146	0.146	0.119	0.119	0.119	0.119

Total composite emission factor (g/Veh/km)	0.0492	0.0346	0.0369	0.0390	0.0354	0.0251	0.0292	0.0263	0.0522	0.0538	0.0438	0.0352	0.0380	0.0376	0.0401	0.0378	0.0433	0.0422	0.0466	0.0331	0.0335	0.0427	0.0570	0.0659	0.0659
Total composite emission factor (g/Veh/mile)	0.08	0.06	0.06	0.06	0.06	0.04	0.05	0.04	0.08	0.09	0.07	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.08	0.05	0.05	0.07	0.09	0.11	0.11

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	
3	LGV4	0	0	0	0	0	1	1	4	6	6	6	6	5	5	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	0	
5	LGV6	0	0	0	0	0	1	1	4	6	6	6	6	5	5	6	6	6	6	5	5	0	0	0	
6	HGV7	0	0	0	0	0	0	0	2	7	8	5	4	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	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	2	1	1	1	1	5	9	9	10	10	9	9	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	
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	
Total Flow (veh)		5	4	4	4	4	7	10	35	88	94	76	72	67	64	74	72	65	74	74	57	45	17	13	2

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	0.024	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	
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	0.031	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	
LGV6	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	
HGV7	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	
HGV8	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	
FBDD	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	
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	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	
PV5	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	
NFB6	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	
NFB7	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	
NFB8	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	
FBSD	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	
Total composite emission factor (g/Veh/km)		0.0035	0.0033	0.0022	0.0033	0.0033	0.0169	0.0170	0.0434	0.0791	0.0812	0.0638	0.0643	0.0652	0.0634	0.0634	0.0643	0.0581	0.0634	0.0634	0.0531	0.0482	0.0116	0.0027	0.0044
Total composite emission factor (g/Veh/mile)		0.01	0.01	0.00	0.01	0.01	0.03	0.03	0.07	0.13	0.13	0.10	0.10	0.11	0.10	0.10	0.10	0.09	0.10	0.10	0.09	0.08	0.02	0.00	0.01

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	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	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	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	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	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	
Total Flow (veh)		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	0.021	0.021	0.021	0.021	0.021	0.021	0.022	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	0.021	0.021
LGV4	0.024	0.024	0.024	0.024	0.024	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	0.025	0.024	0.024
PLB	0.028	0.028	0.028	0.028	0.028	0.028	0.029	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	0.028	0.028
LGV6	0.052	0.052	0.052	0.052	0.052	0.052	0.053	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	0.052	0.052
HGV7	0.139	0.139	0.139	0.139	0.139	0.139	0.144	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	0.139	0.139
HGV8	0.139	0.139	0.139	0.139	0.139	0.139	0.144	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	0.139	0.139
FBDD	0.156	0.156	0.156	0.156	0.156	0.156	0.161	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	0.156	0.156
MC	0.008	0.008	0.008	0.008	0.008	0.008	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	0.008	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	0.000
PV4	0.033	0.033	0.033	0.033	0.033	0.033	0.035	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.033	0.033
PV5	0.038	0.038	0.038	0.038	0.038	0.038	0.040	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	0.038	0.038
NFB6	0.064	0.064	0.064	0.064	0.064	0.064	0.068	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	0.064	0.064
NFB7	0.060	0.060	0.060	0.060	0.060	0.060	0.062	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	0.060	0.060
NFB8	0.217	0.217	0.217	0.217	0.217	0.217	0.225	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.217	0.217
FBSD	0.141	0.141	0.141	0.141	0.141	0.141	0.146	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	0.141	0.141
Total composite emission factor (g/Veh/km)		0.0051	0.0071	0.0018	0.0124	0.0000	0.0080	0.0259	0.0336	0.0561	0.0565	0.0516	0.0501	0.0536	0.0532	0.0534	0.0529	0.0541	0.0536	0.0517	0.0235	0.0292	0.0277	0.0121	0.0256
Total composite emission factor (g/Veh/mile)		0.01	0.01	0.00	0.02	0.00	0.01	0.04	0.05	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	0.04	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	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	32	32	37	12	3	1	
6	HGV7	0	0	0	0	0	0	1	2	149	190	138	123	123	104	119	135	132	112	100	7	7	2	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	
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	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	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	4	4	4	3	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	
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	
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	
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	13	13	13	11	9	8	7	
Total Flow (veh)		28	17	17	15	17	33	54	158	426	500	602	597	547	503	581	595	567	536	576	414	385	152	78	65

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	0.003	0.002	0.002	
LGV3	0.016	0.015	0.015	0.015	0.015	0.015	0.016	0.022	0.022	0.022	0.023	0.019	0.019	0.019	0.019	0.018	0.018	0.023	0.023	0.022	0.022	0.016	0.016	0.016	
LGV4	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.024	0.025	0.025	0.025	0.021	0.021	0.021	0.021	0.020	0.025	0.025	0.025	0.025	0.025	0.018	0.018	0.017	
PLB	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.029	0.029	0.029	0.030	0.026	0.026	0.026	0.026	0.025	0.030	0.030	0.030	0.029	0.029	0.024	0.024	0.024	
LGV6	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.052	0.053	0.054	0.049	0.049	0.049	0.049	0.048	0.054	0.054	0.054	0.053	0.053	0.047	0.047	0.046		
HGV7	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.053	0.054	0.054	0.055	0.047	0.047	0.047	0.045	0.055	0.055	0.055	0.054	0.054	0.042	0.041	0.041		
HGV8	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.141	0.144	0.144	0.147	0.125	0.125	0.127	0.121	0.147	0.147	0.147	0.144	0.144	0.112	0.111	0.111		
FBDD	0.128	0.128	0.128	0.128	0.128	0.128	0.129	0.158	0.161	0.161	0.164	0.142	0.142	0.142	0.144	0.138	0.164	0.164	0.164	0.161	0.161	0.129	0.129	0.128	
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	0.007	0.007	0.007	0.009	0.009	0.009	0.009	0.009	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	0.024	0.024	0.024	0.024	0.024	0.024	0.025	0.034	0.035	0.035	0.036	0.029	0.029	0.029	0.030	0.028	0.036	0.036	0.036	0.035	0.035	0.025	0.025	0.024	
PV5	0.030	0.030	0.030	0.030	0.030	0.030	0.031	0.039	0.040	0.040	0.042	0.034	0.034	0.034	0.034	0.033	0.042	0.042	0.042	0.040	0.040	0.031	0.031	0.030	
NFB6	0.052	0.051	0.051	0.051	0.051	0.051	0.052	0.066	0.068	0.068	0.070	0.057	0.057	0.057	0.058	0.055	0.070	0.070	0.070	0.068	0.068	0.052	0.052	0.052	
NFB7	0.048	0.048	0.048	0.048	0.048	0.048	0.049	0.061	0.062	0.062	0.063	0.054	0.054	0.054	0.055	0.053	0.063	0.063	0.063	0.062	0.062	0.049	0.049	0.048	
NFB8	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.221	0.225	0.225	0.229	0.197	0.197	0.197	0.200	0.191	0.229	0.229	0.229	0.225	0.225	0.176	0.176	0.176	
FBSD	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.143	0.146	0.146	0.148	0.130	0.130	0.130	0.131	0.126	0.148	0.148	0.148	0.146	0.146	0.119	0.119	0.119	
Total composite emission factor (g/Veh/km)		0.0606	0.0415	0.0411	0.0430	0.0354	0.0275	0.0345	0.0237	0.0511	0.0533	0.0423	0.0339	0.0366	0.0362	0.0389	0.0367	0.0415	0.0401	0.0458	0.0346	0.0339	0.0450	0.0650	0.0687
Total composite emission factor (g/Veh/mile)		0.10	0.07	0.07	0.07	0.06	0.04	0.06	0.04	0.08	0.09	0.07	0.05	0.06	0.06	0.06	0.07	0.06	0.07	0.06	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	0	
10	TAXI	1	0	1	0	0	0	3	9	13	15	2	2	1	2	2	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	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	2	2	2	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	
Total Flow (veh)		5	2	2	2	0	3	19	46	114	125	58	50	53	49	56	56	56	54	54	22	12	5	10	4

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	0.018	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	0.025	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	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	
HGV8	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	
FBDD	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	
MC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
TAXI	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	
PV4	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	
PV5	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	
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	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	
NFB8	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	
FBSD	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	
Total composite emission factor (g/Veh/km)		0.0052	0.0103	0.0014	0.0103	0.0000	0.0078	0.0196	0.0272	0.0453	0.0458	0.0549	0.0518	0.0569	0.0564	0.0594	0.0550	0.0550	0.0585	0.0540	0.0192	0.0307	0.0176	0.0121	0.0225
Total composite emission factor (g/Veh/mile)		0.01	0.02	0.00	0.02	0.00	0.01	0.03	0.04	0.07	0.07	0.09	0.08	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.03	0.05	0.03	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: 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	15	14	15	15	13	8	3	2	0	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	5	4	1	0	0	0	
4	PLB	0	0	0	0	0	0	2	4	5	7	5	5	5	6	5	6	6	5	4	1	0	0	0	
5	LGV6	0	0	0	0	0	0	2	4	5	7	5	5	5	6	5	6	6	5	4	1	0	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	1	1	1	1	1	1	1	1	1	1	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	1	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	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	
Total Flow (veh)		2	2	0	0	0	1	12	24	55	59	60	53	49	48	56	53	53	56	58	42	23	11	3	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	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	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	0.020
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	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	0.048
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	0.045
HGV8	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121
FBDD	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138
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	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	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	0.028
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	0.033
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	0.055
NFB7	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
NFB8	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191
FBSD	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	0.126
Total composite emission factor (g/Veh/km)		0.0015	0.0015	0.0000	0.0000	0.0000	0.0029	0.0252	0.0282	0.0475	0.0474	0.0300	0.0309	0.0296	0.0303	0.0279	0.0309	0.0309	0.0279	0.0298	0.0195	0.0204	0.0254	0.0019	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.04	0.05	0.08	0.08	0.05	0.05	0.05	0.05	0.04	0.05	0.05	0.04	0.05	0.03	0.03	0.04	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	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	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
Total Flow (veh)		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	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	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
LGV3	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
LGV4	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
PLB	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067
LGV6	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
HGV7	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160
HGV8	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341
FBDD	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326
MC	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
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	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073
PV5	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097
NFB6	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162
NFB7	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143
NFB8	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494
FBSD	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3133	0.3132	0.3141	0.3134	0.3140	0.3141	0.3132	0.3140	0.3137	0.3129	0.3142	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.50	0.51	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0
Total Flow (veh)		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0	0	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	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
LGV3	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	0.043
LGV4	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	0.047
PLB	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067
LGV6	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	0.093
HGV7	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160
HGV8	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341
FBDD	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326
MC	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	0.022
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	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073
PV5	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097
NFB6	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162
NFB7	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143
NFB8	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494
FBSD	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3133	0.3132	0.3141	0.3134	0.3140	0.3141	0.3132	0.3140	0.3137	0.3129	0.3142	0.0000	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.50	0.51	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	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	44	40	38	32	40	38	42	38	13	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	21	118	248	232	214	208	186	224	220	240	210	76	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	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	
Total Flow (veh)		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	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	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
LGV3	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
LGV4	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
PLB	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067
LGV6	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
HGV7	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160
HGV8	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341
FBDD	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326
MC	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
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	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073
PV5	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097
NFB6	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162
NFB7	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143
NFB8	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494
FBSD	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3133	0.3132	0.3141	0.3134	0.3140	0.3141	0.3132	0.3140	0.3137	0.3129	0.3142	0.0000	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.50	0.51	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0	0
Total Flow (veh)		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0	0	0	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	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
LGV3	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	0.043	0.043
LGV4	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	0.047	0.047
PLB	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067
LGV6	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	0.093	0.093
HGV7	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160
HGV8	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341
FBDD	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326
MC	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	0.022	0.022
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	0.000
PV4	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073
PV5	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097
NFB6	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162
NFB7	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143
NFB8	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494
FBSD	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3133	0.3132	0.3141	0.3134	0.3140	0.3141	0.3132	0.3140	0.3137	0.3129	0.3142	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.50	0.51	0.00	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: 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	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	
Total Flow (veh)		0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	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
PC	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
LGV3	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
LGV4	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
PLB	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067
LGV6	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
HGV7	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160
HGV8	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341
FBDD	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326
MC	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
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	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073
PV5	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097
NFB6	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162
NFB7	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143
NFB8	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494
FBSD	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3407	0.3407	0.3407	0.3407	0.3407	0.3407	0.3407	0.3407	0.3407	0.3407	0.3407	0.0000	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.00	0.00	0.00	0.00	0.00

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

0414816 TMFB

Pollutant Name: PM2.5 (g/veh/km)

Speed km/hr	PC	LGV3	LGV4	PLB	LGV6	HGV7	HGV8	HGV8b	FBDD	MC	TAXI	PV4	PV5	NFB6	NFB7	NFB8	FBSD
10	0.011	0.039	0.043	0.062	0.086	0.147	0.314	0.118	0.299	0.018	0.000	0.067	0.089	0.149	0.132	0.454	0.255
17	0.007	0.031	0.035	0.044	0.067	0.088	0.214	0.084	0.228	0.013	0.000	0.053	0.068	0.112	0.090	0.323	0.197
18	0.007	0.031	0.034	0.043	0.065	0.084	0.206	0.081	0.220	0.013	0.000	0.051	0.065	0.107	0.086	0.311	0.192
27	0.005	0.024	0.027	0.032	0.054	0.059	0.155	0.063	0.172	0.009	0.000	0.039	0.046	0.077	0.066	0.240	0.153
28	0.005	0.023	0.026	0.031	0.053	0.058	0.151	0.062	0.168	0.009	0.000	0.038	0.045	0.075	0.064	0.234	0.150
29	0.004	0.023	0.025	0.030	0.052	0.056	0.147	0.060	0.164	0.008	0.000	0.037	0.043	0.072	0.063	0.229	0.147
30	0.004	0.022	0.025	0.029	0.051	0.055	0.144	0.059	0.161	0.008	0.000	0.036	0.042	0.070	0.062	0.224	0.144
31	0.004	0.022	0.024	0.029	0.051	0.053	0.141	0.058	0.158	0.008	0.000	0.035	0.041	0.068	0.060	0.220	0.141
32	0.004	0.021	0.024	0.028	0.050	0.052	0.138	0.057	0.154	0.008	0.000	0.034	0.039	0.066	0.059	0.215	0.139
33	0.004	0.021	0.023	0.027	0.049	0.051	0.135	0.056	0.151	0.007	0.000	0.033	0.038	0.064	0.058	0.211	0.136
34	0.004	0.020	0.023	0.027	0.049	0.050	0.132	0.054	0.148	0.007	0.000	0.032	0.037	0.062	0.057	0.207	0.134
35	0.004	0.020	0.022	0.026	0.048	0.049	0.130	0.054	0.146	0.007	0.000	0.032	0.036	0.061	0.056	0.203	0.132
36	0.003	0.019	0.022	0.026	0.048	0.048	0.127	0.053	0.143	0.007	0.000	0.031	0.035	0.059	0.055	0.200	0.130
37	0.003	0.019	0.021	0.025	0.047	0.047	0.125	0.052	0.141	0.007	0.000	0.030	0.034	0.058	0.054	0.196	0.128
38	0.003	0.019	0.021	0.025	0.047	0.046	0.123	0.051	0.138	0.006	0.000	0.029	0.034	0.057	0.053	0.193	0.126
39	0.003	0.018	0.020	0.025	0.046	0.045	0.121	0.050	0.136	0.006	0.000	0.029	0.033	0.055	0.052	0.190	0.124
40	0.003	0.018	0.020	0.024	0.046	0.044	0.119	0.049	0.134	0.006	0.000	0.028	0.032	0.054	0.052	0.187	0.122
41	0.003	0.018	0.020	0.024	0.045	0.044	0.117	0.048	0.132	0.006	0.000	0.027	0.032	0.053	0.051	0.184	0.121
42	0.003	0.017	0.019	0.024	0.045	0.043	0.115	0.048	0.130	0.006	0.000	0.027	0.031	0.052	0.050	0.181	0.119
43	0.003	0.017	0.019	0.023	0.045	0.042	0.113	0.047	0.129	0.006	0.000	0.026	0.031	0.052	0.049	0.178	0.118
44	0.003	0.017	0.018	0.023	0.044	0.042	0.112	0.046	0.127	0.006	0.000	0.026	0.030	0.051	0.049	0.176	0.116
45	0.003	0.016	0.018	0.023	0.044	0.041	0.110	0.046	0.125	0.005	0.000	0.025	0.030	0.050	0.048	0.173	0.115
50	0.002	0.015	0.017	0.022	0.043	0.039	0.103	0.043	0.119	0.005	0.000	0.023	0.028	0.048	0.045	0.162	0.109
51	0.002	0.015	0.016	0.022	0.043	0.038	0.102	0.043	0.118	0.005	0.000	0.023	0.028	0.048	0.045	0.162	0.109
52	0.002	0.014	0.016	0.022	0.043	0.038	0.102	0.043	0.118	0.005	0.000	0.022	0.028	0.047	0.044	0.162	0.109
53	0.002	0.014	0.016	0.022	0.042	0.037	0.102	0.043	0.118	0.005	0.000	0.022	0.028	0.047	0.044	0.162	0.109
54	0.002	0.014	0.015	0.022	0.042	0.037	0.101	0.043	0.118	0.005	0.000	0.021	0.028	0.047	0.043	0.162	0.109

EMFAC-HK Model (v 3.4) Key Assumptions:

Mode: EMFAC

Calendar Year 2019

Temperature and relative humidity 24 degree C, 77% (2017 average at Tuen Mun Weather Station)

Vehicle Population (external roads) Default

Vehicle Population (internal roads All HGV8 (year 2019) are of Euro V standard

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	LGVB	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	9	8	7	6	6	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	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	13	13	11	9	8	8	7	6
Total Flow (veh)		61	33	30	24	24	47	113	331	1367	1643	1561	1464	1353	1281	1501	1480	1486	1437	1338	612	518	226	141	98

PM2.5 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	0.004	0.004	0.004	0.003	0.003	0.002	0.002	0.002	0.002
LGV3	0.014	0.014	0.014	0.014	0.014	0.014	0.015	0.020	0.023	0.024	0.020	0.018	0.017	0.017	0.018	0.018	0.020	0.023	0.022	0.018	0.018	0.015	0.015	0.014	0.014
LGV4	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.022	0.026	0.027	0.022	0.020	0.019	0.018	0.020	0.020	0.023	0.025	0.024	0.020	0.020	0.017	0.016	0.016	0.016
PLB	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.028	0.031	0.032	0.026	0.024	0.024	0.023	0.024	0.024	0.027	0.030	0.029	0.024	0.024	0.022	0.022	0.022	0.022
LGVB	0.043	0.042	0.042	0.042	0.042	0.042	0.043	0.048	0.053	0.054	0.048	0.045	0.045	0.044	0.045	0.045	0.049	0.052	0.051	0.046	0.046	0.043	0.043	0.043	0.043
HGV7	0.038	0.037	0.037	0.037	0.037	0.037	0.038	0.049	0.058	0.059	0.049	0.044	0.043	0.042	0.044	0.044	0.050	0.056	0.053	0.044	0.044	0.039	0.038	0.038	0.038
HGV8	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.130	0.151	0.155	0.130	0.117	0.115	0.112	0.117	0.117	0.132	0.147	0.141	0.119	0.119	0.103	0.102	0.102	0.102
FBDD	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.146	0.168	0.172	0.146	0.132	0.130	0.127	0.132	0.132	0.148	0.164	0.158	0.134	0.134	0.119	0.118	0.118	0.118
MC	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.007	0.009	0.009	0.007	0.006	0.006	0.006	0.006	0.006	0.007	0.008	0.008	0.006	0.006	0.005	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	0.022	0.022	0.022	0.022	0.022	0.022	0.023	0.032	0.038	0.039	0.032	0.027	0.027	0.026	0.027	0.027	0.032	0.037	0.035	0.028	0.028	0.023	0.023	0.022	0.022
PV5	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.036	0.045	0.046	0.036	0.032	0.031	0.030	0.032	0.032	0.037	0.043	0.041	0.032	0.032	0.028	0.028	0.028	0.028
NFB6	0.047	0.047	0.047	0.047	0.047	0.047	0.048	0.061	0.075	0.077	0.061	0.053	0.052	0.051	0.053	0.053	0.062	0.072	0.068	0.054	0.054	0.048	0.048	0.047	0.047
NFB7	0.044	0.044	0.044	0.044	0.044	0.044	0.045	0.056	0.064	0.066	0.056	0.051	0.050	0.049	0.051	0.051	0.057	0.063	0.060	0.052	0.052	0.045	0.045	0.044	0.044
NFB8	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.203	0.234	0.240	0.203	0.184	0.181	0.176	0.184	0.184	0.207	0.229	0.220	0.187	0.187	0.162	0.162	0.162	0.162
FBSD	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.132	0.150	0.153	0.132	0.121	0.119	0.116	0.121	0.121	0.134	0.147	0.141	0.122	0.122	0.109	0.109	0.109	0.109
Total composite emission factor (g/Veh/km)		0.0304	0.0229	0.0242	0.0263	0.0240	0.0202	0.0281	0.0340	0.0919	0.0973	0.0722	0.0637	0.0642	0.0617	0.0657	0.0657	0.0749	0.0819	0.0733	0.0289	0.0285	0.0330	0.0373	0.0460
Total composite emission factor (g/Veh/mile)		0.05	0.04	0.04	0.04	0.04	0.03	0.05	0.05	0.15	0.16	0.12	0.10	0.10	0.11	0.11	0.12	0.13	0.12	0.05	0.05	0.05	0.06	0.07	

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	4	4	5	5	5	5	5	5	4	4	3	3	3	
3	LGV4	2	1	1	0	0	0	1	2	3	4	3	3	3	3	3	3	4	3	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	4	3	3	3	3	3	3	4	3	3	3	3	2		
6	HGV7	0	0	0	0	0	0	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	277	265	314	311	324	314	331	2	2	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	2	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	
Total Flow (veh)		13	7	6	3	3	3	15	32	483	499	425	385	341	347	408	392	410	408	431	29	24	19	17	13

PM2.5 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	0.007	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	
LGV3	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	
LGV4	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.034	0.034	0.034	0.034	0.034	
PLB	0.043	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	0.044	0.044	0.043	0.043	0.043	0.043	0.043	
LGV6	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.065	0.065	0.065	0.065	0.065	
HGV7	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.084	0.084	0.084	0.084	0.084	
HGV8	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.206	0.206	0.206	0.206	0.206		
FBDD	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.220	0.220	0.220	0.220	0.220	
MC	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	
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	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.051	0.051	0.051	0.051	0.051	
PV5	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.065	0.065	0.065	0.065	0.065	
NFB6	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.107	0.107	0.107	0.107	0.107		
NFB7	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.086	0.086	0.086	0.086	0.086		
NFB8	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.311	0.311	0.311	0.311	0.311		
FBSD	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.192	0.192	0.192	0.192	0.192		
Total composite emission factor (g/Veh/km)		0.0244	0.0215	0.0239	0.0125	0.0125	0.0125	0.01034	0.01181	0.01881	0.01873	0.01810	0.01834	0.01851	0.01791	0.01796	0.01833	0.01831	0.01796	0.01792	0.0346	0.0410	0.0382	0.0257	0.0249
Total composite emission factor (g/Veh/mile)		0.04	0.03	0.04	0.02	0.02	0.02	0.17	0.19	0.30	0.30	0.29	0.30	0.30	0.29	0.29	0.30	0.30	0.29	0.29	0.06	0.07	0.06	0.04	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	51	51	14	8	4	
4	PLB	5	3	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	11	12	10	8	8	7	6
5	LGVB	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	93	94	97	89	75	33	14	4	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	7	7
Total Flow (veh)		48	26	24	21	21	44	98	299	884	1144	1136	1079	1012	934	1093	1088	1076	1029	907	583	494	207	124	85

PM2.5 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	0.003	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003	0.003	0.002	0.002	0.002	0.002
LGV3	0.014	0.014	0.014	0.014	0.014	0.014	0.015	0.019	0.020	0.020	0.020	0.017	0.017	0.017	0.018	0.018	0.020	0.023	0.022	0.018	0.017	0.015	0.015	0.014	0.014
LGV4	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.021	0.022	0.022	0.022	0.018	0.018	0.019	0.020	0.020	0.023	0.025	0.024	0.020	0.018	0.017	0.016	0.016	0.016
PLB	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.025	0.026	0.026	0.026	0.023	0.023	0.023	0.024	0.024	0.027	0.030	0.029	0.024	0.023	0.022	0.022	0.022	0.022
LGVB	0.043	0.042	0.042	0.042	0.042	0.042	0.043	0.047	0.048	0.048	0.048	0.044	0.044	0.045	0.045	0.045	0.049	0.052	0.051	0.045	0.044	0.043	0.043	0.043	0.043
HGV7	0.038	0.037	0.037	0.037	0.037	0.037	0.038	0.047	0.049	0.049	0.049	0.042	0.042	0.042	0.044	0.044	0.050	0.056	0.053	0.044	0.042	0.039	0.038	0.038	0.038
HGV8	0.102	0.102	0.102	0.102	0.102	0.102	0.125	0.130	0.130	0.130	0.112	0.112	0.113	0.117	0.117	0.117	0.132	0.147	0.141	0.117	0.112	0.103	0.102	0.102	0.102
FBDD	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.141	0.146	0.146	0.146	0.127	0.127	0.129	0.132	0.132	0.148	0.164	0.158	0.132	0.127	0.119	0.118	0.118	
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	0.007	0.008	0.008	0.006	0.006	0.005	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	0.022	0.022	0.022	0.022	0.022	0.022	0.023	0.030	0.032	0.032	0.032	0.026	0.026	0.026	0.027	0.027	0.032	0.037	0.035	0.027	0.026	0.023	0.023	0.022	0.022
PV5	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.034	0.036	0.036	0.036	0.030	0.030	0.031	0.032	0.032	0.037	0.043	0.041	0.032	0.030	0.028	0.028	0.028	0.028
NFB6	0.047	0.047	0.047	0.047	0.047	0.047	0.048	0.058	0.061	0.061	0.061	0.051	0.051	0.052	0.053	0.053	0.062	0.072	0.068	0.053	0.051	0.048	0.048	0.047	0.047
NFB7	0.044	0.044	0.044	0.044	0.044	0.044	0.045	0.054	0.056	0.056	0.056	0.049	0.049	0.049	0.051	0.051	0.057	0.063	0.060	0.051	0.049	0.045	0.045	0.044	0.044
NFB8	0.162	0.162	0.162	0.162	0.162	0.162	0.196	0.203	0.203	0.203	0.176	0.176	0.178	0.184	0.184	0.184	0.207	0.229	0.220	0.184	0.176	0.162	0.162	0.162	0.162
FBSD	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.128	0.132	0.132	0.132	0.116	0.116	0.118	0.121	0.121	0.134	0.147	0.141	0.121	0.116	0.109	0.109	0.109	0.109
Total composite emission factor (g/Veh/km)		0.0351	0.0260	0.0271	0.0293	0.0267	0.0212	0.0245	0.0285	0.0598	0.0676	0.0583	0.0487	0.0509	0.0508	0.0539	0.0535	0.0605	0.0655	0.0523	0.0288	0.0271	0.0342	0.0406	0.0511
Total composite emission factor (g/Veh/mile)		0.06	0.04	0.04	0.05	0.04	0.03	0.04	0.05	0.10	0.11	0.09	0.08	0.08	0.08	0.09	0.09	0.10	0.11	0.08	0.05	0.04	0.06	0.07	0.08

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	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	89	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	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	13	13	11	9	8	8	7	7
Total Flow (veh)		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, 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	0.004	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	0.014	0.014	0.014	0.014	0.014	0.014	0.015	0.020	0.020	0.020	0.021	0.017	0.017	0.017	0.018	0.017	0.021	0.021	0.021	0.020	0.020	0.015	0.015	0.014	0.014
LGV4	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	0.018	0.023	0.023	0.023	0.023	0.023	0.017	0.016	0.016	0.016
PLB	0.022	0.022	0.022	0.022	0.022	0.022	0.026	0.027	0.027	0.027	0.024	0.024	0.024	0.024	0.023	0.027	0.027	0.027	0.027	0.027	0.027	0.022	0.022	0.022	0.022
LGV6	0.043	0.042	0.042	0.042	0.042	0.042	0.043	0.048	0.049	0.049	0.045	0.045	0.045	0.045	0.044	0.049	0.049	0.049	0.049	0.049	0.049	0.043	0.043	0.043	0.043
HGV7	0.038	0.037	0.037	0.037	0.037	0.037	0.038	0.049	0.050	0.050	0.051	0.043	0.043	0.043	0.044	0.042	0.051	0.051	0.051	0.050	0.050	0.039	0.038	0.038	0.038
HGV8	0.102	0.102	0.102	0.102	0.102	0.102	0.130	0.132	0.132	0.135	0.115	0.115	0.115	0.117	0.112	0.135	0.135	0.135	0.132	0.132	0.103	0.102	0.102	0.102	0.102
FBDD	0.118	0.118	0.118	0.118	0.118	0.118	0.146	0.148	0.148	0.151	0.130	0.130	0.130	0.132	0.127	0.151	0.151	0.148	0.148	0.148	0.119	0.118	0.118	0.118	0.118
MC	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.005	0.005	0.005	0.005	0.005
TAXI	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090
PV4	0.022	0.022	0.022	0.022	0.022	0.022	0.023	0.032	0.032	0.032	0.033	0.027	0.027	0.027	0.027	0.026	0.033	0.033	0.033	0.032	0.032	0.023	0.023	0.022	0.022
PV5	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.038	0.037	0.037	0.038	0.031	0.031	0.031	0.032	0.030	0.038	0.038	0.038	0.037	0.037	0.028	0.028	0.028	0.028
NFB6	0.047	0.047	0.047	0.047	0.047	0.047	0.048	0.061	0.062	0.062	0.064	0.052	0.052	0.052	0.053	0.051	0.064	0.064	0.064	0.062	0.062	0.048	0.048	0.048	0.047
NFB7	0.044	0.044	0.044	0.044	0.044	0.044	0.045	0.056	0.057	0.057	0.058	0.050	0.050	0.050	0.051	0.049	0.058	0.058	0.058	0.057	0.057	0.045	0.045	0.044	0.044
NFB8	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.203	0.207	0.207	0.211	0.181	0.181	0.181	0.184	0.176	0.211	0.211	0.211	0.207	0.207	0.162	0.162	0.162	0.162
FBSD	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.132	0.134	0.134	0.136	0.119	0.119	0.119	0.121	0.116	0.136	0.136	0.136	0.134	0.134	0.109	0.109	0.109	0.109
Total composite emission factor (g/Veh/km)		0.0398	0.0270	0.0282	0.0293	0.0267	0.0212	0.0247	0.0286	0.0509	0.0520	0.0422	0.0344	0.0367	0.0363	0.0382	0.0363	0.0411	0.0411	0.0444	0.0323	0.0322	0.0362	0.0460	0.0589
Total composite emission factor (g/Veh/mile)		0.06	0.04	0.05	0.05	0.04	0.03	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	0.07	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	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	5	1	0	0	0		
2	LGv3	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	1	1	1	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	11	11	2	0	0	0		
7	HGV8	0	0	0	0	0	0	0	6	13	14	8	7	7	8	7	7	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		
Total Flow (veh)		0	0	0	0	0	2	21	47	55	31	24	24	24	31	24	24	31	31	14	3	0	0		

PM2.5 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	0.018	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	0.025	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	0.046	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	0.045	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	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121
FBDD	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136
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	0.029	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
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	0.055	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	0.052	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
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	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0016	0.0523	0.0512	0.0485	0.0485	0.0536	0.0536	0.0536	0.0485	0.0536	0.0536	0.0485	0.0485	0.0434	0.0816	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.08	0.09	0.09	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	1	2	1	0	0	0			
2	LGV3	0	0	0	0	0	0	0	1	1	1	0	1	1	1	0	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	0	1	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	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			
8	FBD0	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	1	0	1	0	1	0	1	0	0	1	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			
Total Flow (veh)		0	0	0	0	0	0	2	11	12	5	5	4	5	5	4	5	4	5	4	5	3	0	1	0	0

PM2.5 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	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	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	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	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	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	0.042
HGV8	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113
FBD0	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	0.129
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	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	0.026	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	0.026
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	0.031
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	0.052
NFB7	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	0.049
NFB8	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	0.178
FBSD	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	0.118
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0778	0.0401	0.0393	0.0214	0.0401	0.0260	0.0208	0.0214	0.0495	0.0208	0.0260	0.0214	0.0065	0.0000	0.0027	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.06	0.06	0.03	0.06	0.04	0.03	0.03	0.08	0.03	0.04	0.03	0.01	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: 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	8	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	13	13	2	0	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	7	15	16	8	8	7	8	8	5	8	8	4	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	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	4	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
Total Flow (veh)		0	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, 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	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	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	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	0.025
LGV6	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	0.047
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	0.046
HGV8	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	0.123
FBDD	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138
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	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	0.029	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	0.029
PV5	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034
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	0.057
NFB7	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
NFB8	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193
FBSD	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	0.126
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0016	0.0559	0.0505	0.0481	0.0457	0.0526	0.0508	0.0490	0.0457	0.0544	0.0435	0.0469	0.0457	0.0376	0.0830	0.0032	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		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	0.08	0.07	0.06	0.13	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	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	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	1	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	LGV5	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	8	8	5	8	8	8	4	2	0	0	0
8	FBD	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
Total Flow (veh)		0	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, 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	
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	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	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	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	0.025
LGV5	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	0.047
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	0.046
HGV8	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	0.123
FBD	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138
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	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	0.029	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	0.029
PV5	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034
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	0.057
NFB7	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
NFB8	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193
FBSD	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	0.126
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0016	0.0559	0.0505	0.0481	0.0457	0.0526	0.0508	0.0490	0.0457	0.0544	0.0435	0.0469	0.0457	0.0376	0.0830	0.0032	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.08	0.08	0.08	0.07	0.08	0.08	0.08	0.07	0.09	0.07	0.08	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	47	46	43	43	11	5	2
4	PLB	5	3	2	2	2	3	6	6	6	5	12	11	10	10	11	11	11	12	10	8	8	7	6	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	5	6	6	6	6	6	6	5	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	13	13	11	9	8	8	7	7
Total Flow (veh)		35	21	19	17	17	37	85	228	595	684	720	700	649	600	693	704	676	646	688	478	420	168	91	69

PM2.5 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	0.014	0.014	0.014	0.014	0.014	0.014	0.015	0.020	0.020	0.020	0.021	0.017	0.017	0.017	0.018	0.017	0.021	0.021	0.021	0.021	0.020	0.020	0.015	0.015	0.014
LGV4	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	0.019	0.023	0.023	0.023	0.023	0.023	0.023	0.017	0.016	0.016
PLB	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.026	0.027	0.027	0.027	0.024	0.024	0.024	0.024	0.023	0.027	0.027	0.027	0.027	0.027	0.022	0.022	0.022	0.022
LGV6	0.043	0.042	0.042	0.042	0.042	0.042	0.043	0.048	0.049	0.049	0.049	0.045	0.045	0.045	0.045	0.044	0.049	0.049	0.049	0.049	0.049	0.043	0.043	0.043	0.043
HGV7	0.038	0.037	0.037	0.037	0.037	0.037	0.038	0.049	0.050	0.050	0.051	0.043	0.043	0.043	0.044	0.042	0.051	0.051	0.051	0.050	0.050	0.039	0.038	0.038	0.038
HGV8	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.130	0.132	0.132	0.135	0.115	0.115	0.115	0.117	0.112	0.135	0.135	0.135	0.132	0.132	0.103	0.102	0.102	0.102
FBDD	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.146	0.148	0.148	0.151	0.130	0.130	0.130	0.132	0.127	0.151	0.151	0.151	0.148	0.148	0.119	0.118	0.118	0.118
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	0.007	0.007	0.007	0.007	0.007	0.005	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	0.022	0.022	0.022	0.022	0.022	0.022	0.023	0.032	0.032	0.032	0.033	0.027	0.027	0.027	0.027	0.026	0.033	0.033	0.033	0.032	0.032	0.023	0.023	0.023	0.022
PV5	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.036	0.037	0.037	0.038	0.031	0.031	0.031	0.032	0.030	0.038	0.038	0.038	0.037	0.037	0.028	0.028	0.028	0.028
NFB6	0.047	0.047	0.047	0.047	0.047	0.047	0.048	0.061	0.062	0.062	0.064	0.052	0.052	0.052	0.053	0.051	0.064	0.064	0.064	0.062	0.062	0.048	0.048	0.047	0.047
NFB7	0.044	0.044	0.044	0.044	0.044	0.044	0.045	0.056	0.057	0.057	0.058	0.050	0.050	0.050	0.051	0.049	0.058	0.058	0.058	0.057	0.057	0.045	0.045	0.044	0.044
NFB8	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.203	0.207	0.207	0.211	0.181	0.181	0.181	0.184	0.176	0.211	0.211	0.211	0.207	0.207	0.162	0.162	0.162	0.162
FBSD	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.132	0.134	0.134	0.136	0.119	0.119	0.119	0.121	0.116	0.136	0.136	0.136	0.134	0.134	0.109	0.109	0.109	0.109
Total composite emission factor (g/Veh/km)		0.0452	0.0318	0.0339	0.0359	0.0326	0.0231	0.0269	0.0242	0.0480	0.0495	0.0403	0.0324	0.0350	0.0346	0.0369	0.0347	0.0399	0.0388	0.0429	0.0304	0.0308	0.0393	0.0524	0.0606
Total composite emission factor (g/Veh/mile)		0.07	0.05	0.05	0.06	0.05	0.04	0.04	0.04	0.08	0.08	0.07	0.05	0.06	0.06	0.06	0.06	0.06	0.06	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 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	6	6	7	7	7	7	7	6	5	0	0	0	
3	LGV4	0	0	0	0	0	1	4	6	6	6	6	5	5	6	6	5	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	
5	LGV6	0	0	0	0	0	1	4	6	6	6	6	5	5	6	6	5	6	6	5	5	0	0	0	
6	HGV7	0	0	0	0	0	0	2	7	8	5	4	4	4	5	4	4	5	5	2	1	0	0	0	
7	HGV8	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	
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	2	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	
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	
Total Flow (veh)		5	4	4	4	4	7	10	35	88	94	76	72	67	64	74	72	65	74	74	57	45	17	13	2

PM2.5 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	0.004
LGV3	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	0.022
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	0.024
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	0.029
LGV6	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	0.051
HGV7	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
HGV8	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	0.141
FBDD	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
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	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	0.000
PV4	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	0.035
PV5	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	0.041
NFB6	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	0.068
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	0.060
NFB8	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220
FBSD	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	0.141
Total composite emission factor (g/Veh/km)		0.0032	0.0030	0.0020	0.0030	0.0030	0.0155	0.0156	0.0399	0.0728	0.0748	0.0587	0.0591	0.0600	0.0583	0.0583	0.0591	0.0535	0.0583	0.0583	0.0489	0.0443	0.0106	0.0025	0.0040
Total composite emission factor (g/Veh/mile)		0.01	0.00	0.00	0.00	0.00	0.03	0.03	0.06	0.12	0.12	0.09	0.10	0.10	0.09	0.09	0.10	0.09	0.09	0.09	0.08	0.07	0.02	0.00	0.01

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	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	LGVB	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	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	
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	
Total Flow (veh)		7	4	2	2	0	4	31	70	189	184	118	103	102	97	112	109	109	110	112	64	35	16	13	4

PM2.5 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	0.004	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	0.019	0.019	0.019	0.019	0.019	0.019	0.020	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	0.019	
LGV4	0.022	0.022	0.022	0.022	0.022	0.022	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.024	0.024	0.024	0.023	0.023	0.023	0.023	0.022	
PLB	0.026	0.026	0.026	0.026	0.026	0.026	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.028	0.028	0.028	0.027	0.027	0.027	0.027	0.026	
LGVB	0.048	0.048	0.048	0.048	0.048	0.048	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.050	0.050	0.050	0.049	0.049	0.049	0.049	0.048	
HGV7	0.048	0.048	0.048	0.048	0.048	0.048	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	0.048	
HGV8	0.127	0.127	0.127	0.127	0.127	0.127	0.132	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.138	0.138	0.138	0.135	0.135	0.135	0.135	0.127	
FBDD	0.143	0.143	0.143	0.143	0.143	0.143	0.148	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.154	0.154	0.154	0.151	0.151	0.151	0.151	0.143	
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	0.008	0.008	0.008	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	0.031	0.031	0.031	0.031	0.031	0.031	0.032	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.034	0.034	0.034	0.033	0.033	0.033	0.033	0.031	
PV5	0.035	0.035	0.035	0.035	0.035	0.035	0.037	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.039	0.039	0.038	0.038	0.038	0.038	0.035	
NFB6	0.059	0.059	0.059	0.059	0.059	0.059	0.062	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.066	0.066	0.066	0.066	0.064	0.064	0.064	0.064	0.059	
NFB7	0.055	0.055	0.055	0.055	0.055	0.055	0.057	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.059	0.059	0.059	0.058	0.058	0.058	0.058	0.055	
NFB8	0.200	0.200	0.200	0.200	0.200	0.200	0.207	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.215	0.215	0.215	0.215	0.211	0.211	0.211	0.211	0.200	
FBSD	0.130	0.130	0.130	0.130	0.130	0.130	0.134	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.139	0.139	0.139	0.136	0.136	0.136	0.136	0.130	
Total composite emission factor (g/Veh/km)		0.0047	0.0066	0.0017	0.0114	0.0000	0.0074	0.0238	0.0310	0.0516	0.0520	0.0474	0.0461	0.0493	0.0489	0.0491	0.0487	0.0497	0.0493	0.0476	0.0216	0.0268	0.0255	0.0110	0.0236
Total composite emission factor (g/Veh/mile)		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	0.03	0.04	0.04	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	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	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	33	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	4	4	11	11	9	9	11	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	5	5	5	5	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	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	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
Total Flow (veh)		28	17	17	15	17	33	54	158	426	500	602	597	547	503	581	595	567	536	576	414	385	152	78	65

Description	PM2.5 emission factor (g/Veh/km, EMFAC Veh categories)																								
	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	0.014	0.014	0.014	0.014	0.014	0.014	0.015	0.020	0.020	0.020	0.021	0.017	0.017	0.017	0.018	0.017	0.021	0.021	0.021	0.020	0.020	0.015	0.015	0.014	0.014
LGV4	0.016	0.016	0.016	0.016	0.016	0.016	0.018	0.022	0.023	0.023	0.023	0.019	0.019	0.019	0.020	0.018	0.023	0.023	0.023	0.023	0.023	0.017	0.016	0.016	0.016
PLB	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.026	0.027	0.027	0.027	0.024	0.024	0.024	0.024	0.023	0.027	0.027	0.027	0.027	0.027	0.022	0.022	0.022	0.022
LGV6	0.043	0.042	0.042	0.042	0.042	0.042	0.043	0.048	0.049	0.049	0.049	0.045	0.045	0.045	0.045	0.044	0.049	0.049	0.049	0.049	0.049	0.043	0.043	0.043	0.043
HGV7	0.038	0.037	0.037	0.037	0.037	0.037	0.038	0.049	0.050	0.050	0.051	0.043	0.043	0.043	0.044	0.042	0.051	0.051	0.051	0.050	0.050	0.039	0.038	0.038	0.038
HGV8	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.130	0.132	0.132	0.135	0.115	0.115	0.115	0.117	0.112	0.135	0.135	0.135	0.132	0.132	0.103	0.102	0.102	0.102
FBDD	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.146	0.148	0.148	0.151	0.130	0.130	0.130	0.132	0.127	0.151	0.151	0.151	0.148	0.148	0.119	0.118	0.118	0.118
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	0.007	0.007	0.007	0.007	0.007	0.005	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	0.022	0.022	0.022	0.022	0.022	0.022	0.023	0.032	0.032	0.032	0.033	0.027	0.027	0.027	0.027	0.026	0.033	0.033	0.033	0.032	0.032	0.023	0.023	0.022	0.022
PV5	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.036	0.037	0.037	0.038	0.031	0.031	0.031	0.032	0.030	0.038	0.038	0.038	0.037	0.037	0.028	0.028	0.028	0.028
NFB6	0.047	0.047	0.047	0.047	0.047	0.047	0.048	0.061	0.062	0.062	0.064	0.052	0.052	0.052	0.053	0.051	0.064	0.064	0.064	0.062	0.062	0.048	0.048	0.047	0.047
NFB7	0.044	0.044	0.044	0.044	0.044	0.044	0.045	0.056	0.057	0.057	0.058	0.050	0.050	0.050	0.051	0.049	0.058	0.058	0.058	0.057	0.057	0.045	0.045	0.044	0.044
NFB8	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.203	0.207	0.207	0.211	0.181	0.181	0.181	0.184	0.176	0.211	0.211	0.211	0.207	0.207	0.162	0.162	0.162	0.162
FBSD	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.132	0.134	0.134	0.136	0.119	0.119	0.119	0.121	0.116	0.136	0.136	0.136	0.134	0.134	0.109	0.109	0.109	0.109
Total composite emission factor (g/Veh/km)		0.0557	0.0382	0.0378	0.0396	0.0326	0.0253	0.0317	0.0218	0.0470	0.0490	0.0389	0.0312	0.0337	0.0333	0.0358	0.0337	0.0382	0.0369	0.0422	0.0318	0.0312	0.0414	0.0597	0.0631
Total composite emission factor (g/Veh/mile)		0.09	0.06	0.06	0.06	0.05	0.04	0.05	0.04	0.08	0.08	0.06	0.05	0.05	0.05	0.06	0.05	0.06	0.06	0.07	0.05	0.05	0.07	0.10	0.10

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	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	3	4	3	1	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	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	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	18	12	15	14	17	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	1	0	
10	TAXI	1	0	1	0	0	0	3	9	13	15	2	2	1	2	1	2	1	2	1	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	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	2	2	2	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	
Total Flow (veh)		5	2	2	2	0	3	19	46	114	125	58	50	53	49	56	56	54	54	22	12	5	10	4	

PM2.5 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	0.016	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	
LGV4	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	
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	0.044	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	
HGV7	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	
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	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	
MC	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	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	0.025	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	
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	0.050	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	
NFB7	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	
NFB8	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	
FBSD	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	
Total composite emission factor (g/Veh/km)		0.0048	0.0094	0.0013	0.0094	0.0000	0.0071	0.0180	0.0250	0.0416	0.0421	0.0505	0.0476	0.0523	0.0519	0.0546	0.0506	0.0506	0.0538	0.0497	0.0176	0.0282	0.0162	0.0110	0.0207
Total composite emission factor (g/Veh/mile)		0.01	0.02	0.00	0.02	0.00	0.01	0.03	0.04	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.09	0.08	0.03	0.05	0.03	0.02	0.03

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	13	8	3	2	0		
2	LGV3	0	0	0	0	0	2	3	5	6	8	7	6	6	8	7	7	8	8	6	3	2	0		
3	LGV4	0	0	0	0	0	2	4	5	7	5	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	7	5	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	0	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	1	1	1	1	1	1	1	1	1	0	0	0	0		
Total Flow (veh)		2	2	0	0	0	1	12	24	55	59	60	53	49	48	56	53	53	56	42	23	11	3	0	

PM2.5 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	0.017	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	0.018	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	
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	0.044	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	
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	0.112	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	
FBDD	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	0.127	
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	0.026	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	0.030	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	0.051	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	0.049	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	
NFB8	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	
FBSD	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	
Total composite emission factor (g/Veh/km)		0.0014	0.0014	0.0000	0.0000	0.0000	0.0027	0.0232	0.0260	0.0437	0.0436	0.0276	0.0285	0.0273	0.0278	0.0257	0.0285	0.0285	0.0257	0.0274	0.0180	0.0187	0.0234	0.0018	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.07	0.07	0.04	0.05	0.04	0.04	0.04	0.05	0.05	0.04	0.04	0.03	0.03	0.04	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: R1_Internal 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	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	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
Total Flow (veh)		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0	0	0

PM2.5 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	0.011	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	0.039	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	
LGV4	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	
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	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	
HGV7	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	
HGV8	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	
FBDD	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	
MC	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	
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	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	
PV5	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	
NFB6	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	
NFB7	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	
NFB8	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	
FBSD	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2883	0.2882	0.2890	0.2883	0.2889	0.2890	0.2882	0.2889	0.2887	0.2879	0.2891	0.0000	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.46	0.47	0.47	0.47	0.47	0.46	0.47	0.47	0.46	0.47	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: R4_Internal 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	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	11	44	40	38	36	32	40	38	42	38	13	0	0	0	0	0
8	FBD	0	0	0	0	0	0	0	0	218	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
Total Flow (veh)		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0	0	0

PM2.5 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	0.011	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	0.011
LGV3	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	0.039
LGV4	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	0.043
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	0.062
LGV6	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086
HGV7	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	0.147
HGV8	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314
FBD	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299
MC	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	0.018
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	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067
PV5	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089
NFB6	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	0.149
NFB7	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132
NFB8	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454
FBSD	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255

Total composite emission factor (g/Veh/km)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2883	0.2882	0.2890	0.2883	0.2889	0.2890	0.2882	0.2889	0.2887	0.2879	0.2891	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.46	0.47	0.47	0.47	0.47	0.46	0.47	0.47	0.46	0.47	0.00	0.00	0.00	0.00	0.00	0.00

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

0414816 TMFB

Pollutant Name: NOx (g/veh/km)

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	0.028	1.829	1.839	1.657	2.990	4.408	8.134	9.419	10.435	0.427	0.486	1.078	2.000	4.487	6.020	8.461	9.534
17	0.023	1.179	1.182	1.272	2.176	3.196	5.260	5.993	6.693	0.387	0.418	0.923	1.542	3.493	4.686	5.371	6.142
18	0.022	1.136	1.137	1.232	2.103	3.085	5.022	5.708	6.381	0.382	0.412	0.905	1.488	3.373	4.524	5.117	5.859
27	0.018	0.856	0.842	0.963	1.654	2.393	3.625	4.040	4.550	0.343	0.367	0.775	1.118	2.525	3.387	3.641	4.194
28	0.018	0.833	0.817	0.942	1.620	2.338	3.522	3.917	4.414	0.340	0.363	0.763	1.088	2.457	3.296	3.532	4.070
29	0.018	0.811	0.793	0.922	1.587	2.286	3.425	3.802	4.287	0.336	0.360	0.753	1.061	2.395	3.212	3.431	3.954
30	0.018	0.790	0.770	0.903	1.566	2.237	3.334	3.693	4.168	0.333	0.356	0.742	1.036	2.337	3.136	3.336	3.846
31	0.017	0.752	0.723	0.885	1.527	2.179	3.249	3.592	4.056	0.330	0.353	0.733	1.010	2.279	3.057	3.246	3.743
32	0.017	0.734	0.704	0.872	1.499	2.135	3.168	3.496	3.950	0.327	0.350	0.724	0.996	2.248	3.016	3.162	3.647
33	0.017	0.716	0.685	0.860	1.472	2.093	3.092	3.405	3.850	0.324	0.347	0.715	0.982	2.218	2.975	3.083	3.556
34	0.017	0.700	0.668	0.848	1.447	2.053	3.020	3.320	3.756	0.321	0.344	0.707	0.968	2.188	2.935	3.008	3.470
35	0.016	0.685	0.652	0.837	1.424	2.015	2.952	3.239	3.667	0.318	0.341	0.699	0.955	2.159	2.896	2.938	3.388
36	0.016	0.670	0.636	0.826	1.401	1.979	2.888	3.162	3.582	0.315	0.339	0.692	0.942	2.130	2.858	2.870	3.311
37	0.016	0.657	0.622	0.815	1.379	1.945	2.826	3.089	3.501	0.313	0.336	0.685	0.929	2.102	2.820	2.807	3.237
38	0.016	0.644	0.608	0.805	1.358	1.912	2.768	3.020	3.424	0.310	0.334	0.679	0.917	2.074	2.783	2.746	3.167
39	0.015	0.631	0.595	0.795	1.338	1.881	2.712	2.953	3.351	0.308	0.331	0.673	0.904	2.048	2.747	2.689	3.100
40	0.015	0.619	0.582	0.785	1.319	1.851	2.659	2.890	3.281	0.306	0.329	0.668	0.893	2.021	2.711	2.634	3.036
41	0.015	0.608	0.570	0.775	1.301	1.822	2.608	2.830	3.215	0.303	0.326	0.662	0.881	1.995	2.677	2.581	2.976
42	0.015	0.597	0.559	0.766	1.283	1.794	2.560	2.773	3.151	0.301	0.324	0.658	0.870	1.970	2.643	2.531	2.917
43	0.015	0.587	0.548	0.757	1.267	1.767	2.514	2.718	3.090	0.299	0.322	0.653	0.859	1.945	2.610	2.483	2.862
44	0.015	0.577	0.538	0.749	1.250	1.742	2.469	2.665	3.032	0.297	0.320	0.649	0.848	1.921	2.577	2.438	2.808
45	0.014	0.568	0.528	0.740	1.235	1.717	2.426	2.614	2.976	0.295	0.318	0.646	0.837	1.898	2.546	2.394	2.757
50	0.014	0.526	0.485	0.702	1.164	1.606	2.237	2.390	2.727	0.287	0.309	0.633	0.789	1.788	2.399	2.199	2.529
51	0.013	0.524	0.481	0.695	1.162	1.605	2.203	2.350	2.722	0.286	0.307	0.631	0.780	1.768	2.372	2.164	2.524
52	0.013	0.522	0.478	0.688	1.161	1.603	2.171	2.311	2.717	0.284	0.305	0.630	0.771	1.748	2.345	2.131	2.519
53	0.013	0.519	0.475	0.681	1.159	1.602	2.139	2.274	2.712	0.283	0.304	0.629	0.762	1.729	2.320	2.099	2.515
54	0.013	0.517	0.472	0.675	1.158	1.601	2.109	2.238	2.707	0.282	0.302	0.629	0.754	1.711	2.295	2.068	2.510

Year	NO2/NOx ratio	NO/NOx ratio
2019		
PC	0.053	0.947
LGV3	0.083	0.917
LGV4	0.081	0.919
PLB	0.141	0.859
LGV6	0.280	0.720
HGV7	0.303	0.697
HGV8	0.118	0.882
FBDD	0.071	0.929
MC	0.050	0.950
TAXI	0.026	0.974
PV4	0.189	0.811
PV5	0.253	0.747
NFB6	0.280	0.720
NFB7	0.270	0.730
NFB8	0.066	0.934
FBSD	0.098	0.902
HGV8b	0.051	0.949

EMFAC-HK Model (v 3.4) Key Assumptions:

- Mode: EMFAC
- Calendar Year: 2023
- Temperature and relative humidity: 24 degree C, 77% (2017 average at Tuen Mun Weather Station)
- Vehicle Population (external roads): Default
- Vehicle Population (internal roads All HGV8 (year 2019) are of Euro V standard)
- 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: 2023

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	34	121	176	189	253	245	220	211	240	235	232	225	248	220	167	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	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	6
5	LGV6	4	2	2	3	2	7	11	17	36	38	57	53	50	48	54	53	53	54	55	50	51	20	10	6
6	HGV7	0	0	0	0	0	0	0	0	11	11	11	11	10	10	11	11	11	11	11	11	8	7	6	6
7	HGV8	0	0	0	0	0	0	0	26	61	689	875	679	624	587	545	656	646	653	611	524	52	38	10	0
8	FBDD	2	1	1	0	0	0	2	4	2	4	4	11	9	11	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	6	5	4	4	4
10	TAXI	9	5	6	4	5	7	16	66	90	98	100	103	93	89	101	99	98	101	104	93	77	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	13	13	11	9	8	7	7	7
Total Flow (veh)		61	33	30	24	24	47	139	360	1415	1714	1619	1516	1407	1324	1559	1534	1537	1480	1391	643	541	226	139	98

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	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.016	0.018	0.018	0.016	0.015	0.015	0.015	0.015	0.015	0.017	0.018	0.017	0.015	0.015	0.014	0.013	0.013	0.013
LGV3	0.522	0.519	0.519	0.519	0.519	0.519	0.524	0.685	0.833	0.856	0.685	0.608	0.597	0.577	0.608	0.608	0.700	0.811	0.752	0.619	0.619	0.526	0.524	0.522	0.522
LGV4	0.478	0.475	0.475	0.475	0.475	0.475	0.481	0.652	0.817	0.842	0.652	0.570	0.559	0.538	0.570	0.570	0.668	0.793	0.723	0.582	0.582	0.485	0.481	0.478	0.478
PLB	0.688	0.681	0.681	0.681	0.681	0.681	0.695	0.837	0.942	0.963	0.837	0.775	0.766	0.749	0.775	0.775	0.848	0.922	0.885	0.785	0.785	0.702	0.695	0.688	0.688
LGV6	1.161	1.159	1.159	1.159	1.159	1.159	1.162	1.424	1.620	1.654	1.424	1.301	1.283	1.250	1.301	1.301	1.447	1.587	1.527	1.319	1.319	1.164	1.162	1.161	1.161
HGV7	1.603	1.602	1.602	1.602	1.602	1.602	1.605	2.015	2.338	2.393	2.015	1.822	1.794	1.742	1.822	1.822	2.053	2.288	2.179	1.851	1.851	1.606	1.605	1.603	1.603
HGV8	2.171	2.139	2.139	2.139	2.139	2.139	2.203	2.952	3.522	3.625	2.952	2.608	2.469	2.608	2.608	2.608	3.020	3.425	3.249	2.659	2.659	2.237	2.203	2.171	2.171
FBDD	2.717	2.712	2.712	2.712	2.712	2.712	2.722	3.667	4.414	4.550	3.667	3.215	3.151	3.032	3.215	3.215	3.756	4.287	4.056	3.281	3.281	2.727	2.722	2.717	2.717
MC	0.284	0.283	0.283	0.283	0.283	0.283	0.286	0.341	0.340	0.343	0.341	0.303	0.301	0.297	0.303	0.303	0.321	0.336	0.330	0.306	0.306	0.287	0.286	0.284	0.284
TAXI	0.305	0.304	0.304	0.304	0.304	0.304	0.307	0.341	0.363	0.367	0.341	0.326	0.324	0.320	0.326	0.326	0.344	0.360	0.353	0.329	0.329	0.309	0.307	0.305	0.305
PV4	0.630	0.629	0.629	0.629	0.629	0.629	0.631	0.699	0.763	0.775	0.699	0.662	0.658	0.649	0.662	0.662	0.707	0.753	0.733	0.668	0.668	0.633	0.631	0.630	0.630
PV5	0.771	0.762	0.762	0.762	0.762	0.762	0.780	0.955	1.088	1.118	0.955	0.881	0.870	0.848	0.881	0.881	0.968	1.061	1.010	0.893	0.893	0.789	0.780	0.771	0.771
NFB6	1.748	1.729	1.729	1.729	1.729	1.729	1.768	2.159	2.457	2.525	2.159	1.995	1.970	1.921	1.995	1.995	2.188	2.395	2.279	2.021	2.021	1.788	1.768	1.748	1.748
NFB7	2.345	2.320	2.320	2.320	2.320	2.320	2.372	2.896	3.296	3.387	2.896	2.677	2.643	2.577	2.677	2.677	2.935	3.212	3.057	2.711	2.711	2.399	2.372	2.345	2.345
NFB8	2.131	2.099	2.099	2.099	2.099	2.099	2.164	2.938	3.532	3.641	2.938	2.581	2.531	2.438	2.581	2.581	3.008	3.431	3.246	2.634	2.634	2.199	2.164	2.131	2.131
FBSD	2.519	2.515	2.515	2.515	2.515	2.515	2.524	3.388	4.070	4.194	3.388	2.976	2.917	2.808	2.976	2.976	3.470	3.954	3.743	3.036	3.036	2.529	2.524	2.519	2.519
Total composite emission factor (g/Veh/km)		0.8143	0.6347	0.6843	0.7402	0.6853	0.5937	0.9530	1.0016	2.3914	2.5490	1.8760	1.6454	1.6320	1.5653	1.6729	1.6744	1.9336	2.1473	1.9188	0.8292	0.8292	0.8862	0.9515	1.1613
Total composite emission factor (g/Veh/mile)		1.31	1.02	1.10	1.19	1.11	0.96	1.54	1.62	3.86	4.11	3.03	2.65	2.63	2.52	2.70	2.70	3.12	3.46	3.09	1.34	1.34	1.43	1.53	1.87

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: 2023

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	0	3	3	4	3	3	3	3	3	4	3	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	4	3	3	3	3	2		
6	HGV7	0	0	0	0	0	0	2	2	74	79	67	62	58	63	62	61	63	65	2	1	1	0	0	
7	HGV8	0	0	0	0	0	0	6	18	416	446	378	351	327	315	359	351	344	359	373	13	6	6	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	2	1	1	1	1	1	2	4	5	5	3	3	3	3	3	3	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
Total Flow (veh)		13	7	6	3	3	3	15	32	513	549	480	440	411	397	453	440	432	453	473	41	28	24	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	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.022	0.022	0.022	0.022	0.022	0.022
LGV3	1.136	1.136	1.136	1.136	1.136	1.136	1.136	1.136	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.136	1.136	1.136	1.136	1.136	1.136
LGV4	1.137	1.137	1.137	1.137	1.137	1.137	1.137	1.137	1.182	1.182	1.182	1.182	1.182	1.182	1.182	1.182	1.182	1.182	1.182	1.137	1.137	1.137	1.137	1.137	1.137
PLB	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.272	1.272	1.272	1.272	1.272	1.272	1.272	1.272	1.272	1.272	1.272	1.232	1.232	1.232	1.232	1.232	1.232
LGV6	2.103	2.103	2.103	2.103	2.103	2.103	2.103	2.103	2.176	2.176	2.176	2.176	2.176	2.176	2.176	2.176	2.176	2.176	2.176	2.103	2.103	2.103	2.103	2.103	2.103
HGV7	3.085	3.085	3.085	3.085	3.085	3.085	3.085	3.085	3.196	3.196	3.196	3.196	3.196	3.196	3.196	3.196	3.196	3.196	3.196	3.085	3.085	3.085	3.085	3.085	3.085
HGV8	5.022	5.022	5.022	5.022	5.022	5.022	5.022	5.022	5.260	5.260	5.260	5.260	5.260	5.260	5.260	5.260	5.260	5.260	5.260	5.022	5.022	5.022	5.022	5.022	5.022
FBDD	6.381	6.381	6.381	6.381	6.381	6.381	6.381	6.381	6.693	6.693	6.693	6.693	6.693	6.693	6.693	6.693	6.693	6.693	6.693	6.381	6.381	6.381	6.381	6.381	6.381
MC	0.382	0.382	0.382	0.382	0.382	0.382	0.382	0.382	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.382	0.382	0.382	0.382	0.382	0.382
TAXI	0.412	0.412	0.412	0.412	0.412	0.412	0.412	0.412	0.418	0.418	0.418	0.418	0.418	0.418	0.418	0.418	0.418	0.418	0.418	0.412	0.412	0.412	0.412	0.412	0.412
PV4	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.905	0.905	0.905	0.905	0.905	0.905
PV5	1.488	1.488	1.488	1.488	1.488	1.488	1.488	1.488	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.488	1.488	1.488	1.488	1.488	1.488
NFB6	3.373	3.373	3.373	3.373	3.373	3.373	3.373	3.373	3.493	3.493	3.493	3.493	3.493	3.493	3.493	3.493	3.493	3.493	3.493	3.373	3.373	3.373	3.373	3.373	3.373
NFB7	4.524	4.524	4.524	4.524	4.524	4.524	4.524	4.524	4.686	4.686	4.686	4.686	4.686	4.686	4.686	4.686	4.686	4.686	4.686	4.524	4.524	4.524	4.524	4.524	4.524
NFB8	5.117	5.117	5.117	5.117	5.117	5.117	5.117	5.117	5.371	5.371	5.371	5.371	5.371	5.371	5.371	5.371	5.371	5.371	5.371	5.117	5.117	5.117	5.117	5.117	5.117
FBSD	5.859	5.859	5.859	5.859	5.859	5.859	5.859	5.859	6.142	6.142	6.142	6.142	6.142	6.142	6.142	6.142	6.142	6.142	6.142	5.859	5.859	5.859	5.859	5.859	5.859
Total composite emission factor (g/Veh/km)		0.8307	0.6934	0.8053	0.5231	0.5231	0.5231	2.7436	3.2846	4.7613	4.7664	4.6339	4.6863	4.6758	4.6656	4.6537	4.6863	4.6805	4.6537	4.6333	2.1277	1.7183	1.9545	0.8055	0.8007
Total composite emission factor (g/Veh/mile)		1.34	1.12	1.30	0.84	0.84	0.84	4.43	5.30	7.68	7.69	7.47	7.56	7.54	7.53	7.51	7.56	7.55	7.51	7.47	3.43	2.77	3.15	1.30	1.29

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: 2023

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	31	116	168	181	236	232	207	198	225	222	219	210	231	207	157	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	17	33	35	58	55	51	49	56	55	55	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	7	6	6
5	LGV6	2	1	1	3	2	7	10	17	33	35	58	55	51	49	56	55	55	56	51	51	14	8	4	4
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	FBDD	2	1	1	0	0	0	2	4	2	4	11	11	9	11	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	0	1	1	6	6	6	5	6	6	6	6	6	6	6	5	4	4
10	TAXI	7	4	5	3	4	6	15	64	86	93	95	100	90	86	96	95	96	99	90	76	33	14	4	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
Total Flow (veh)		48	26	24	21	21	44	124	328	902	1165	1139	1076	996	927	1106	1094	1105	1027	918	602	513	202	122	85

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	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.016	0.016	0.016	0.016	0.015	0.015	0.015	0.015	0.015	0.017	0.018	0.017	0.015	0.015	0.014	0.013	0.013	0.013
LGV3	0.522	0.519	0.519	0.519	0.519	0.519	0.524	0.657	0.685	0.685	0.685	0.577	0.577	0.587	0.608	0.608	0.700	0.811	0.752	0.608	0.577	0.526	0.524	0.522	0.522
LGV4	0.478	0.475	0.475	0.475	0.475	0.475	0.481	0.622	0.652	0.652	0.652	0.538	0.538	0.548	0.570	0.570	0.668	0.793	0.723	0.570	0.538	0.485	0.481	0.478	0.478
PLB	0.688	0.681	0.681	0.681	0.681	0.681	0.695	0.815	0.837	0.837	0.837	0.749	0.749	0.757	0.775	0.775	0.848	0.922	0.865	0.775	0.749	0.702	0.695	0.688	0.688
LGV6	1.161	1.159	1.159	1.159	1.159	1.159	1.162	1.379	1.424	1.424	1.424	1.250	1.250	1.267	1.301	1.301	1.447	1.587	1.527	1.301	1.250	1.164	1.162	1.161	1.161
HGV7	1.803	1.802	1.802	1.802	1.802	1.802	1.805	1.945	2.015	2.015	2.015	1.742	1.742	1.767	1.822	1.822	2.053	2.286	2.179	1.822	1.742	1.606	1.605	1.603	1.603
HGV8	2.171	2.139	2.139	2.139	2.139	2.139	2.203	2.826	2.952	2.952	2.952	2.469	2.469	2.514	2.608	2.608	3.020	3.425	3.249	2.608	2.469	2.237	2.203	2.171	2.171
FBDD	2.717	2.712	2.712	2.712	2.712	2.712	2.722	3.501	3.667	3.667	3.667	3.032	3.032	3.090	3.215	3.215	3.756	4.287	4.056	3.215	3.032	2.727	2.722	2.717	2.717
MC	0.284	0.283	0.283	0.283	0.283	0.283	0.286	0.313	0.318	0.318	0.318	0.297	0.297	0.299	0.303	0.303	0.321	0.336	0.330	0.303	0.297	0.287	0.286	0.284	0.284
TAXI	0.305	0.304	0.304	0.304	0.304	0.304	0.307	0.336	0.341	0.341	0.341	0.320	0.320	0.322	0.326	0.326	0.344	0.360	0.353	0.326	0.320	0.309	0.307	0.305	0.305
PV4	0.630	0.629	0.629	0.629	0.629	0.629	0.631	0.685	0.699	0.699	0.699	0.649	0.649	0.653	0.662	0.662	0.707	0.753	0.733	0.662	0.649	0.633	0.631	0.630	0.630
PV5	0.771	0.762	0.762	0.762	0.762	0.762	0.780	0.929	0.955	0.955	0.955	0.848	0.848	0.859	0.881	0.881	0.968	1.061	1.010	0.881	0.848	0.789	0.780	0.771	0.771
NFB6	1.748	1.729	1.729	1.729	1.729	1.729	1.768	2.102	2.159	2.159	2.159	1.921	1.921	1.945	1.995	1.995	2.188	2.395	2.279	1.995	1.921	1.788	1.768	1.748	1.748
NFB7	2.345	2.320	2.320	2.320	2.320	2.320	2.372	2.820	2.896	2.896	2.896	2.577	2.577	2.610	2.677	2.677	2.935	3.212	3.057	2.677	2.577	2.399	2.372	2.345	2.345
NFB8	2.131	2.099	2.099	2.099	2.099	2.099	2.164	2.807	2.938	2.938	2.938	2.438	2.438	2.483	2.581	2.581	3.008	3.431	3.246	2.581	2.438	2.199	2.164	2.131	2.131
FBSD	2.519	2.515	2.515	2.515	2.515	2.515	2.524	3.237	3.388	3.388	3.388	2.808	2.808	2.862	2.976	2.976	3.470	3.954	3.743	2.976	2.808	2.529	2.524	2.519	2.519
Total composite emission factor (g/Veh/km)		0.9201	0.7096	0.7519	0.8062	0.7434	0.6151	0.9155	0.8737	1.6298	1.8048	1.5563	1.2874	1.3077	1.3028	1.3982	1.3988	1.6259	1.7442	1.4171	0.7932	0.7719	0.8828	1.0275	1.2776
Total composite emission factor (g/Veh/mile)		1.48	1.14	1.21	1.30	1.20	0.99	1.48	1.41	2.63	2.91	2.51	2.08	2.11	2.10	2.26	2.26	2.62	2.81	2.29	1.28	1.25	1.42	1.66	2.06

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

District: Tuen Mun Fill Bank
 Road Section TMS5_Lung Mun Road
 Year: 2023

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	30	114	165	178	225	222	198	190	215	212	209	200	221	198	149	38	19	9
2	LGV3	2	4	4	2	2	7	16	25	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	17	32	34	54	52	48	46	53	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	9	23	205	265	195	177	167	154	180	187	189	173	152	19	16	3	0	0
7	HGV8	0	0	0	0	0	0	17	37	182	253	137	119	112	98	137	139	137	100	103	33	29	3	0	0
8	FBDD	2	1	1	0	0	0	2	4	1	1	11	11	9	9	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	0	1	1	6	6	6	6	6	6	6	6	6	6	5	4	4	4
10	TAXI	5	4	5	3	4	6	15	62	84	91	88	94	85	81	90	89	89	90	92	85	71	29	10	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	4	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	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
Total Flow (veh)		40	25	23	21	21	44	120	315	785	948	913	868	798	748	892	884	877	823	831	571	487	181	102	71

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	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.016	0.017	0.017	0.017	0.015	0.015	0.015	0.015	0.015	0.017	0.017	0.017	0.017	0.017	0.014	0.013	0.013
LGV3	0.522	0.519	0.519	0.519	0.519	0.519	0.524	0.685	0.700	0.700	0.716	0.597	0.597	0.597	0.608	0.577	0.716	0.716	0.700	0.700	0.526	0.524	0.522	0.522
LGV4	0.478	0.475	0.475	0.475	0.475	0.475	0.481	0.652	0.668	0.668	0.685	0.559	0.559	0.559	0.570	0.538	0.685	0.685	0.668	0.668	0.485	0.481	0.478	0.478
PLB	0.688	0.681	0.681	0.681	0.681	0.681	0.695	0.837	0.848	0.848	0.860	0.766	0.766	0.766	0.775	0.749	0.860	0.860	0.860	0.848	0.848	0.702	0.695	0.688
LGV6	1.161	1.159	1.159	1.159	1.159	1.159	1.162	1.424	1.447	1.447	1.472	1.283	1.283	1.283	1.301	1.250	1.472	1.472	1.472	1.447	1.447	1.164	1.162	1.161
HGV7	1.603	1.602	1.602	1.602	1.602	1.602	1.805	2.015	2.053	2.053	2.093	1.794	1.794	1.794	1.822	1.742	2.093	2.093	2.093	2.053	2.053	1.606	1.605	1.603
HGV8	2.171	2.139	2.139	2.139	2.139	2.139	2.203	2.952	3.020	3.020	3.092	2.560	2.560	2.560	2.608	2.469	3.092	3.092	3.020	3.020	2.237	2.203	2.171	2.171
FBDD	2.717	2.712	2.712	2.712	2.712	2.712	2.722	3.667	3.756	3.756	3.850	3.151	3.151	3.151	3.215	3.032	3.850	3.850	3.850	3.756	3.756	2.727	2.722	2.717
MC	0.284	0.283	0.283	0.283	0.283	0.283	0.286	0.318	0.321	0.321	0.324	0.301	0.301	0.301	0.303	0.297	0.324	0.324	0.324	0.321	0.321	0.287	0.286	0.284
TAXI	0.305	0.304	0.304	0.304	0.304	0.304	0.307	0.341	0.344	0.344	0.347	0.324	0.324	0.324	0.326	0.320	0.347	0.347	0.347	0.344	0.344	0.309	0.307	0.305
PV4	0.630	0.629	0.629	0.629	0.629	0.629	0.631	0.699	0.707	0.707	0.715	0.658	0.658	0.658	0.662	0.649	0.715	0.715	0.715	0.707	0.707	0.633	0.631	0.630
PV5	0.771	0.762	0.762	0.762	0.762	0.762	0.780	0.955	0.968	0.968	0.982	0.870	0.870	0.870	0.881	0.848	0.982	0.982	0.982	0.968	0.968	0.789	0.780	0.771
NFB6	1.748	1.729	1.729	1.729	1.729	1.729	1.768	2.159	2.188	2.188	2.218	1.970	1.970	1.970	1.995	1.921	2.218	2.218	2.218	2.188	2.188	1.788	1.768	1.748
NFB7	2.345	2.320	2.320	2.320	2.320	2.320	2.372	2.896	2.935	2.935	2.975	2.643	2.643	2.643	2.677	2.577	2.975	2.975	2.975	2.935	2.935	2.399	2.372	2.345
NFB8	2.131	2.099	2.099	2.099	2.099	2.099	2.164	2.938	3.008	3.008	3.083	2.531	2.531	2.531	2.581	2.438	3.083	3.083	3.083	3.008	3.008	2.199	2.164	2.131
FBSD	2.519	2.515	2.515	2.515	2.515	2.515	2.524	3.388	3.470	3.470	3.556	2.917	2.917	2.917	2.976	2.808	3.556	3.556	3.556	3.470	3.470	2.529	2.524	2.519

Total composite emission factor (g/Veh/km)	1.0211	0.7374	0.7840	0.8062	0.7434	0.6151	0.8909	0.8736	1.5121	1.6306	1.3839	1.1257	1.1414	1.1194	1.1973	1.1447	1.4018	1.3251	1.2812	0.8940	0.9259	0.9267	1.1473	1.4548
Total composite emission factor (g/Veh/mile)	1.65	1.19	1.26	1.30	1.20	0.99	1.44	1.41	2.44	2.63	2.23	1.82	1.84	1.81	1.93	1.85	2.26	2.14	2.07	1.44	1.49	1.49	1.85	2.35

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: 2023

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	2	5	11	13	9	7	7	9	7	7	9	9	7	2	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	LGV8	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	1	3	6	7	5	4	4	4	5	4	4	5	5	3	2	0	0	
7	HGV8	0	0	0	0	0	0	3	20	37	40	28	25	24	23	28	25	24	28	28	20	8	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	0	0	0	0	0	0	2	4	8	10	6	4	4	4	6	4	4	6	6	4	1	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	
Total Flow (veh)		0	0	0	0	0	0	8	32	67	75	49	41	40	39	49	41	40	49	49	35	13	1	0	0

NOx 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	0.015	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
LGV3	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631
LGV4	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595
PLB	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795
LGV8	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338
HGV7	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881
HGV8	2.712	2.712	2.712	2.712	2.712	2.712	2.712	2.712	2.712	2.712	2.712	2.712	2.712	2.712	2.712	2.712	2.712	2.712	2.712	2.712	2.712	2.712	2.712	2.712
FBDD	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351
MC	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308
TAXI	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331
PV4	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673
PV5	0.904	0.904	0.904	0.904	0.904	0.904	0.904	0.904	0.904	0.904	0.904	0.904	0.904	0.904	0.904	0.904	0.904	0.904	0.904	0.904	0.904	0.904	0.904	0.904
NFB6	2.048	2.048	2.048	2.048	2.048	2.048	2.048	2.048	2.048	2.048	2.048	2.048	2.048	2.048	2.048	2.048	2.048	2.048	2.048	2.048	2.048	2.048	2.048	2.048
NFB7	2.747	2.747	2.747	2.747	2.747	2.747	2.747	2.747	2.747	2.747	2.747	2.747	2.747	2.747	2.747	2.747	2.747	2.747	2.747	2.747	2.747	2.747	2.747	2.747
NFB8	2.689	2.689	2.689	2.689	2.689	2.689	2.689	2.689	2.689	2.689	2.689	2.689	2.689	2.689	2.689	2.689	2.689	2.689	2.689	2.689	2.689	2.689	2.689	2.689
FBSD	3.100	3.100	3.100	3.100	3.100	3.100	3.100	3.100	3.100	3.100	3.100	3.100	3.100	3.100	3.100	3.100	3.100	3.100	3.100	3.100	3.100	3.100	3.100	3.100

Total composite emission factor (g/Veh/km)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.3387	1.9152	1.7702	1.7242	1.7979	1.8875	1.8669	1.8452	1.7979	1.8875	1.8669	1.7979	1.7979	1.7699	1.9862	2.7121	0.0000	0.0000
Total composite emission factor (g/Veh/mile)	0.00	0.00	0.00	0.00	0.00	0.00	2.16	3.09	2.86	2.78	2.90	3.04	3.01	2.98	2.90	3.04	3.01	2.90	2.90	2.85	3.20	4.37	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: 2023

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	0	2	3	2	1	1	2	0	1	1	2	1	0	1	0	0			
2	LGV3	0	0	0	0	0	0	0	0	1	0	1	0	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			
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	0	1	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	1	2	5	5	2	3	2	2	3	2	2	2	1	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	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			
Total Flow (veh)		0	0	0	0	0	0	1	2	11	12	5	5	4	5	5	4	5	4	5	4	5	4	1	2	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	0.015	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	0.015	0.015
LGV3	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587
LGV4	0.548	0.548	0.548	0.548	0.548	0.548	0.548	0.548	0.548	0.548	0.548	0.548	0.548	0.548	0.548	0.548	0.548	0.548	0.548	0.548	0.548	0.548	0.548	0.548	0.548	0.548
PLB	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.757	0.757
LGV6	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267
HGV7	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	1.767	1.767
HGV8	2.514	2.514	2.514	2.514	2.514	2.514	2.514	2.514	2.514	2.514	2.514	2.514	2.514	2.514	2.514	2.514	2.514	2.514	2.514	2.514	2.514	2.514	2.514	2.514	2.514	2.514
FBDD	3.090	3.090	3.090	3.090	3.090	3.090	3.090	3.090	3.090	3.090	3.090	3.090	3.090	3.090	3.090	3.090	3.090	3.090	3.090	3.090	3.090	3.090	3.090	3.090	3.090	3.090
MC	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299
TAXI	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	0.322	0.322
PV4	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	0.853	0.853
PV5	0.859	0.859	0.859	0.859	0.859	0.859	0.859	0.859	0.859	0.859	0.859	0.859	0.859	0.859	0.859	0.859	0.859	0.859	0.859	0.859	0.859	0.859	0.859	0.859	0.859	0.859
NFB6	1.945	1.945	1.945	1.945	1.945	1.945	1.945	1.945	1.945	1.945	1.945	1.945	1.945	1.945	1.945	1.945	1.945	1.945	1.945	1.945	1.945	1.945	1.945	1.945	1.945	1.945
NFB7	2.610	2.610	2.610	2.610	2.610	2.610	2.610	2.610	2.610	2.610	2.610	2.610	2.610	2.610	2.610	2.610	2.610	2.610	2.610	2.610	2.610	2.610	2.610	2.610	2.610	2.610
NFB8	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483
FBSD	2.862	2.862	2.862	2.862	2.862	2.862	2.862	2.862	2.862	2.862	2.862	2.862	2.862	2.862	2.862	2.862	2.862	2.862	2.862	2.862	2.862	2.862	2.862	2.862	2.862	2.862
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.5135	2.5135	1.3861	1.3284	1.1287	1.5755	1.4072	1.1902	1.1287	1.9657	1.1902	1.4072	1.1287	0.8593	2.5135	1.2641	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	4.05	4.05	2.24	2.14	1.82	2.54	2.27	1.92	1.82	3.17	1.92	2.27	1.82	1.39	4.05	2.04	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: 2023

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	2	5	13	16	11	8	8	11	7	8	10	11	8	2	1	0	0	
2	LGV3	0	0	0	0	0	0	0	0	2	1	2	2	2	1	2	2	2	2	2	2	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	4	3	6	7	5	4	4	5	4	5	4	5	5	3	2	0	0	
7	HGV8	0	0	0	0	0	0	4	20	42	45	30	28	26	25	30	28	26	30	30	16	9	2	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	2	4	8	10	6	5	4	5	6	5	6	6	5	1	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	
Total Flow (veh)		0	0	0	0	0	0	9	32	78	87	54	46	44	44	54	45	45	53	54	34	14	3	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	0.016	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	
LGV3	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	
LGV4	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	
PLB	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	
LGV6	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	
HGV7	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	
HGV8	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	
FBDD	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	
MC	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	
TAXI	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	
PV4	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	
PV5	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	
NFB6	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	
NFB7	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	
NFB8	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	
FBSD	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.5201	1.9532	1.7650	1.7162	1.7787	1.9039	1.8717	1.8164	1.7787	1.9459	1.8375	1.8120	1.7787	1.5617	2.0784	1.8503	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	2.45	3.15	2.85	2.77	2.87	3.07	3.02	2.93	2.87	3.14	2.96	2.92	2.87	2.52	3.35	2.98	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: 2023

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	2	5	13	16	11	8	8	11	7	8	10	11	8	2	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	
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	1	3	6	7	5	4	4	4	4	5	4	5	5	3	2	0	0	
7	HGV8	0	0	0	0	0	0	4	20	42	45	30	28	26	25	30	28	26	30	30	18	9	2	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	2	4	8	10	6	5	4	5	6	5	6	6	5	1	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	
Total Flow (veh)		0	0	0	0	0	0	9	32	78	87	54	46	44	44	54	45	45	53	54	34	14	3	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	0.016	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
LGV3	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644
LGV4	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
PLB	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805
LGV6	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358	1.358
HGV7	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912	1.912
HGV8	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768
FBDD	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424
MC	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310
TAXI	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334
PV4	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679
PV5	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917
NFB6	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074
NFB7	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783	2.783
NFB8	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746	2.746
FBSD	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167	3.167

Total composite emission factor (g/Veh/km)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.5201	1.9532	1.7650	1.7162	1.7787	1.9039	1.8717	1.8164	1.7787	1.9459	1.8375	1.8120	1.7787	1.5617	2.0784	1.8503	0.0000	0.0000
Total composite emission factor (g/Veh/mile)	0.00	0.00	0.00	0.00	0.00	0.00	2.45	3.15	2.85	2.77	2.87	3.07	3.02	2.93	2.87	3.14	2.96	2.92	2.87	2.52	3.35	2.98	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: 2023

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	24	100	138	147	197	199	175	168	188	190	186	174	194	175	135	27	11	7
2	LGV3	2	4	4	2	2	6	13	20	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	15	24	26	48	46	43	41	47	46	47	46	43	43	11	5	2	
4	PLB	5	3	2	2	2	2	2	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	12	25	26	43	41	39	37	42	41	42	42	41	39	40	14	4	2
6	HGV7	0	0	0	0	0	0	3	8	18	192	250	185	169	159	146	180	179	181	183	142	14	13	3	0
7	HGV8	0	0	0	0	0	0	9	12	102	166	82	67	63	52	83	87	87	46	49	10	10	0	0	0
8	FBDD	2	1	1	0	0	0	2	2	4	11	11	9	9	11	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	6	5	4	4	4
10	TAXI	4	3	3	2	3	5	12	53	67	72	72	72	67	74	75	74	74	76	71	63	23	5	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	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
Total Flow (veh)		35	21	19	17	17	37	97	253	619	767	783	750	687	640	764	767	762	696	703	488	428	161	89	69

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	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.016	0.017	0.017	0.017	0.017	0.015	0.015	0.015	0.015	0.015	0.017	0.017	0.017	0.017	0.017	0.014	0.013	0.013
LGV3	0.522	0.519	0.519	0.519	0.519	0.519	0.524	0.685	0.700	0.700	0.716	0.597	0.597	0.608	0.577	0.716	0.716	0.716	0.716	0.700	0.700	0.526	0.524	0.522	0.522
LGV4	0.478	0.475	0.475	0.475	0.475	0.475	0.481	0.652	0.668	0.668	0.685	0.559	0.559	0.570	0.538	0.685	0.685	0.685	0.685	0.668	0.668	0.485	0.481	0.478	0.478
PLB	0.688	0.681	0.681	0.681	0.681	0.681	0.695	0.837	0.848	0.848	0.860	0.766	0.766	0.766	0.775	0.749	0.860	0.860	0.860	0.848	0.848	0.702	0.695	0.688	0.688
LGV6	1.161	1.159	1.159	1.159	1.159	1.159	1.162	1.424	1.447	1.447	1.472	1.283	1.283	1.283	1.301	1.250	1.472	1.472	1.472	1.447	1.447	1.164	1.162	1.161	1.161
HGV7	1.603	1.602	1.602	1.602	1.602	1.602	1.605	2.015	2.053	2.053	2.093	1.794	1.794	1.794	1.822	1.742	2.093	2.093	2.093	2.053	2.053	1.606	1.605	1.603	1.603
HGV8	2.171	2.139	2.139	2.139	2.139	2.139	2.203	2.952	3.020	3.020	3.092	2.560	2.560	2.560	2.608	2.469	3.092	3.092	3.092	3.020	3.020	2.237	2.203	2.171	2.171
FBDD	2.717	2.712	2.712	2.712	2.712	2.712	2.722	3.667	3.756	3.756	3.850	3.151	3.151	3.151	3.215	3.032	3.850	3.850	3.850	3.756	3.756	2.727	2.722	2.717	2.717
MC	0.284	0.283	0.283	0.283	0.283	0.283	0.286	0.318	0.321	0.321	0.324	0.301	0.301	0.301	0.303	0.297	0.324	0.324	0.324	0.321	0.321	0.287	0.286	0.284	0.284
TAXI	0.305	0.304	0.304	0.304	0.304	0.304	0.307	0.341	0.344	0.344	0.347	0.324	0.324	0.324	0.326	0.320	0.347	0.347	0.347	0.344	0.344	0.309	0.307	0.305	0.305
PV4	0.630	0.629	0.629	0.629	0.629	0.629	0.631	0.699	0.707	0.707	0.715	0.658	0.658	0.658	0.662	0.649	0.715	0.715	0.715	0.707	0.707	0.633	0.631	0.630	0.630
PV5	0.771	0.762	0.762	0.762	0.762	0.762	0.780	0.955	0.968	0.968	0.982	0.870	0.870	0.870	0.881	0.848	0.982	0.982	0.982	0.968	0.968	0.789	0.780	0.771	0.771
NFB6	1.748	1.729	1.729	1.729	1.729	1.729	1.768	2.159	2.188	2.188	2.218	1.970	1.970	1.970	1.995	1.921	2.218	2.218	2.218	2.188	2.188	1.788	1.768	1.748	1.748
NFB7	2.345	2.320	2.320	2.320	2.320	2.320	2.372	2.896	2.935	2.935	2.975	2.643	2.643	2.643	2.677	2.577	2.975	2.975	2.975	2.935	2.935	2.399	2.372	2.345	2.345
NFB8	2.131	2.099	2.099	2.099	2.099	2.099	2.164	2.938	3.008	3.008	3.083	2.531	2.531	2.531	2.581	2.438	3.083	3.083	3.083	3.008	3.008	2.199	2.164	2.131	2.131
FBSD	2.519	2.515	2.515	2.515	2.515	2.515	2.524	3.388	3.470	3.470	3.556	2.917	2.917	2.917	2.976	2.808	3.556	3.556	3.556	3.470	3.470	2.529	2.524	2.519	2.519
Total composite emission factor (g/Veh/km)		1.1568	0.8616	0.9157	0.9757	0.8982	0.6640	0.8604	0.7132	1.4322	1.5888	1.3372	1.0781	1.0953	1.0724	1.1604	1.1071	1.3586	1.2605	1.2110	0.8388	0.8653	0.9877	1.2964	1.4966
Total composite emission factor (g/Veh/mile)		1.87	1.39	1.48	1.57	1.45	1.07	1.39	1.15	2.31	2.56	2.16	1.74	1.77	1.73	1.87	1.79	2.19	2.03	1.95	1.35	1.40	1.59	2.09	2.41

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: 2023

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	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	7	7	7	7	7	7	6	5	0	0	
3	LGV4	0	0	0	0	0	1	1	2	6	6	6	6	5	6	6	5	6	6	5	6	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	0	
5	LGV6	0	0	0	0	0	1	1	2	6	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	4	5	4	4	5	5	5	2	1	0	
7	HGV8	0	0	0	0	0	0	4	5	38	42	25	24	23	21	24	24	24	24	24	7	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	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	2	1	1	1	1	5	9	9	10	10	9	9	10	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	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	
Total Flow (veh)		5	4	4	4	4	7	14	30	88	94	76	72	67	64	74	72	70	74	74	49	45	17	13	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	
PC	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	
LGV3	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	
LGV4	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	
PLB	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	
LGV6	1.527	1.527	1.527	1.527	1.527	1.527	1.527	1.527	1.527	1.527	1.527	1.527	1.527	1.527	1.527	1.527	1.527	1.527	1.527	1.527	1.527	1.527	1.527	1.527	
HGV7	2.179	2.179	2.179	2.179	2.179	2.179	2.179	2.179	2.179	2.179	2.179	2.179	2.179	2.179	2.179	2.179	2.179	2.179	2.179	2.179	2.179	2.179	2.179	2.179	
HGV8	3.249	3.249	3.249	3.249	3.249	3.249	3.249	3.249	3.249	3.249	3.249	3.249	3.249	3.249	3.249	3.249	3.249	3.249	3.249	3.249	3.249	3.249	3.249	3.249	
FBDD	4.056	4.056	4.056	4.056	4.056	4.056	4.056	4.056	4.056	4.056	4.056	4.056	4.056	4.056	4.056	4.056	4.056	4.056	4.056	4.056	4.056	4.056	4.056	4.056	
MC	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	
TAXI	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	
PV4	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	
PV5	1.010	1.010	1.010	1.010	1.010	1.010	1.010	1.010	1.010	1.010	1.010	1.010	1.010	1.010	1.010	1.010	1.010	1.010	1.010	1.010	1.010	1.010	1.010	1.010	
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	3.057	3.057	3.057	3.057	3.057	3.057	3.057	3.057	3.057	3.057	3.057	3.057	3.057	3.057	3.057	3.057	3.057	3.057	3.057	3.057	3.057	3.057	3.057	3.057	
NFB8	3.246	3.246	3.246	3.246	3.246	3.246	3.246	3.246	3.246	3.246	3.246	3.246	3.246	3.246	3.246	3.246	3.246	3.246	3.246	3.246	3.246	3.246	3.246	3.246	
FBSD	3.743	3.743	3.743	3.743	3.743	3.743	3.743	3.743	3.743	3.743	3.743	3.743	3.743	3.743	3.743	3.743	3.743	3.743	3.743	3.743	3.743	3.743	3.743	3.743	
Total composite emission factor (g/Veh/km)		0.0845	0.1013	0.1852	0.1013	0.1013	0.4867	1.2801	1.0260	1.8367	1.8810	1.5091	1.5171	1.5318	1.5018	1.5058	1.5171	1.5283	1.5058	1.5058	0.9448	1.1634	0.3259	0.1465	0.0173
Total composite emission factor (g/Veh/mile)		0.14	0.16	0.30	0.16	0.16	0.78	2.06	1.65	2.96	3.03	2.43	2.45	2.47	2.42	2.43	2.45	2.47	2.43	2.43	1.52	1.88	0.53	0.24	0.03

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: 2023

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	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	7	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	0	
5	LGV6	0	0	0	0	0	0	4	7	14	15	9	8	7	6	8	8	8	9	7	3	2	1	1		
6	HGV7	0	0	0	0	0	0	3	6	38	42	21	17	19	18	21	20	20	20	19	3	3	0	0	0	
7	HGV8	0	0	0	0	0	0	3	6	38	42	21	17	19	18	21	20	20	20	19	3	3	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	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	1	0	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	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	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	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	0
14	NFB7	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	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	0
Total Flow (veh)		7	4	2	2	0	4	34	76	179	194	118	103	102	97	112	109	109	110	112	64	35	14	13	4	

NOx 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	0.016	0.016	0.016	0.016	0.016	0.016	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	0.016	0.016
LGV3	0.670	0.670	0.670	0.670	0.670	0.670	0.700	0.716	0.716	0.716	0.716	0.716	0.716	0.716	0.716	0.716	0.734	0.734	0.734	0.716	0.716	0.716	0.716	0.670	0.670
LGV4	0.636	0.636	0.636	0.636	0.636	0.636	0.668	0.685	0.685	0.685	0.685	0.685	0.685	0.685	0.685	0.685	0.704	0.704	0.704	0.685	0.685	0.685	0.685	0.636	0.636
PLB	0.826	0.826	0.826	0.826	0.826	0.826	0.848	0.860	0.860	0.860	0.860	0.860	0.860	0.860	0.860	0.860	0.872	0.872	0.872	0.860	0.860	0.860	0.860	0.826	0.826
LGV6	1.401	1.401	1.401	1.401	1.401	1.401	1.447	1.472	1.472	1.472	1.472	1.472	1.472	1.472	1.472	1.472	1.499	1.499	1.499	1.472	1.472	1.472	1.472	1.401	1.401
HGV7	1.979	1.979	1.979	1.979	1.979	1.979	2.053	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.093	2.135	2.135	2.135	2.093	2.093	2.093	2.093	1.979	1.979
HGV8	2.888	2.888	2.888	2.888	2.888	2.888	3.020	3.092	3.092	3.092	3.092	3.092	3.092	3.092	3.092	3.092	3.168	3.168	3.168	3.092	3.092	3.092	3.092	2.888	2.888
FBDD	3.582	3.582	3.582	3.582	3.582	3.582	3.756	3.850	3.850	3.850	3.850	3.850	3.850	3.850	3.850	3.850	3.950	3.950	3.950	3.850	3.850	3.850	3.850	3.582	3.582
MC	0.315	0.315	0.315	0.315	0.315	0.315	0.321	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.327	0.327	0.327	0.324	0.324	0.324	0.324	0.315	0.315
TAXI	0.339	0.339	0.339	0.339	0.339	0.339	0.344	0.347	0.347	0.347	0.347	0.347	0.347	0.347	0.347	0.347	0.350	0.350	0.350	0.347	0.347	0.347	0.347	0.339	0.339
PV4	0.692	0.692	0.692	0.692	0.692	0.692	0.707	0.715	0.715	0.715	0.715	0.715	0.715	0.715	0.715	0.715	0.724	0.724	0.724	0.715	0.715	0.715	0.715	0.692	0.692
PV5	0.942	0.942	0.942	0.942	0.942	0.942	0.968	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.996	0.996	0.996	0.982	0.982	0.982	0.982	0.942	0.942
NFB6	2.130	2.130	2.130	2.130	2.130	2.130	2.188	2.218	2.218	2.218	2.218	2.218	2.218	2.218	2.218	2.218	2.248	2.248	2.248	2.218	2.218	2.218	2.218	2.130	2.130
NFB7	2.858	2.858	2.858	2.858	2.858	2.858	2.935	2.975	2.975	2.975	2.975	2.975	2.975	2.975	2.975	2.975	3.016	3.016	3.016	2.975	2.975	2.975	2.975	2.858	2.858
NFB8	2.870	2.870	2.870	2.870	2.870	2.870	3.008	3.083	3.083	3.083	3.083	3.083	3.083	3.083	3.083	3.083	3.162	3.162	3.162	3.083	3.083	3.083	3.083	2.870	2.870
FBSD	3.311	3.311	3.311	3.311	3.311	3.311	3.470	3.556	3.556	3.556	3.556	3.556	3.556	3.556	3.556	3.556	3.647	3.647	3.647	3.556	3.556	3.556	3.556	3.311	3.311

Total composite emission factor (g/Veh/km)	0.2017	0.2603	0.1774	0.3432	0.0000	0.1797	0.8549	0.9982	1.4738	1.4853	1.3479	1.3111	1.3939	1.3827	1.3911	1.3817	1.4116	1.3989	1.3559	0.6667	0.7851	0.5409	0.3622	0.6724
Total composite emission factor (g/Veh/mile)	0.33	0.42	0.29	0.55	0.00	0.29	1.38	1.61	2.38	2.40	2.17	2.11	2.25	2.23	2.24	2.23	2.28	2.26	2.19	1.08	1.27	0.87	0.58	1.08

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: 2023

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	23:00	0:00
1	PC	2	2	2	0	2	5	14	80	106	113	171	176	153	146	164	167	163	150	170	153	122	23	5	6		
2	LGV3	1	3	4	1	2	5	8	8	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	8	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	11	12	10	8	8	7	6		
5	LGV6	1	1	1	3	2	6	5	5	11	11	34	33	32	31	34	33	34	34	32	32	37	12	3	1		
6	HGV7	0	0	0	0	0	0	5	12	154	208	164	152	140	128	159	159	161	143	123	11	10	3	0	0		
7	HGV8	0	0	0	0	0	0	6	6	64	124	61	50	44	34	62	67	67	26	30	7	7	0	0	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	5	5	5	4	5	5	5	5	5	5	5	4	4	3	4		
10	TAXI	2	2	2	2	3	5	7	41	48	51	60	68	62	57	63	64	63	64	61	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	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		
Total Flow (veh)		28	17	17	15	17	33	63	177	440	573	665	647	585	543	652	658	653	586	591	424	393	147	76	65		

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	23:00	0:00	
PC	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.016	0.017	0.017	0.017	0.015	0.015	0.015	0.015	0.015	0.017	0.017	0.017	0.017	0.017	0.017	0.014	0.013	0.013	0.013	
LGV3	0.522	0.519	0.519	0.519	0.519	0.519	0.524	0.685	0.700	0.700	0.716	0.597	0.597	0.597	0.608	0.577	0.716	0.716	0.716	0.700	0.700	0.526	0.524	0.522			
LGV4	0.478	0.475	0.475	0.475	0.475	0.475	0.481	0.652	0.668	0.668	0.685	0.559	0.559	0.559	0.570	0.538	0.685	0.685	0.685	0.668	0.668	0.485	0.481	0.478			
PLB	0.688	0.681	0.681	0.681	0.681	0.681	0.695	0.837	0.848	0.848	0.860	0.766	0.766	0.766	0.775	0.749	0.860	0.860	0.860	0.848	0.848	0.702	0.695	0.688			
LGV6	1.161	1.159	1.159	1.159	1.159	1.159	1.162	1.424	1.447	1.447	1.472	1.283	1.283	1.283	1.301	1.250	1.472	1.472	1.472	1.447	1.447	1.164	1.162	1.161			
HGV7	1.603	1.602	1.602	1.602	1.602	1.602	1.605	2.015	2.053	2.053	2.093	1.794	1.794	1.794	1.822	1.742	2.093	2.093	2.093	2.053	2.053	1.606	1.605	1.603			
HGV8	2.171	2.139	2.139	2.139	2.139	2.139	2.203	2.952	3.020	3.020	3.092	2.560	2.560	2.560	2.608	2.489	3.092	3.092	3.092	3.020	3.020	2.237	2.203	2.171			
FBDD	2.717	2.712	2.712	2.712	2.712	2.712	2.722	3.667	3.756	3.756	3.850	3.151	3.151	3.151	3.215	3.032	3.850	3.850	3.850	3.756	3.756	2.727	2.722	2.717			
MC	0.284	0.283	0.283	0.283	0.283	0.283	0.286	0.318	0.321	0.321	0.324	0.301	0.301	0.301	0.303	0.297	0.324	0.324	0.324	0.321	0.321	0.287	0.286	0.284			
TAXI	0.305	0.304	0.304	0.304	0.304	0.304	0.307	0.341	0.344	0.344	0.347	0.324	0.324	0.324	0.326	0.320	0.347	0.347	0.347	0.344	0.344	0.309	0.307	0.305			
PV4	0.630	0.629	0.629	0.629	0.629	0.629	0.631	0.699	0.707	0.707	0.715	0.658	0.658	0.658	0.662	0.649	0.715	0.715	0.715	0.707	0.707	0.633	0.631	0.630			
PV5	0.771	0.762	0.762	0.762	0.762	0.762	0.780	0.955	0.968	0.968	0.982	0.870	0.870	0.870	0.881	0.848	0.982	0.982	0.982	0.968	0.968	0.789	0.780	0.771			
NFB6	1.748	1.729	1.729	1.729	1.729	1.729	1.768	2.159	2.188	2.188	2.218	1.970	1.970	1.970	1.995	1.921	2.218	2.218	2.218	2.188	2.188	1.788	1.768	1.748			
NFB7	2.345	2.320	2.320	2.320	2.320	2.320	2.372	2.896	2.935	2.935	2.975	2.643	2.643	2.643	2.677	2.577	2.975	2.975	2.975	2.935	2.935	2.399	2.372	2.345			
NFB8	2.131	2.099	2.099	2.099	2.099	2.099	2.164	2.938	3.008	3.008	3.083	2.531	2.531	2.531	2.581	2.438	3.083	3.083	3.083	3.008	3.008	2.199	2.164	2.131			
FBSD	2.519	2.515	2.515	2.515	2.515	2.515	2.524	3.388	3.470	3.470	3.556	2.917	2.917	2.917	2.976	2.808	3.556	3.556	3.556	3.470	3.470	2.529	2.524	2.519			
Total composite emission factor (g/Veh/km)		1.4037	1.0143	1.0048	1.0702	0.8982	0.7276	0.9710	0.6073	1.4277	1.6343	1.3354	1.0729	1.0806	1.0549	1.1542	1.1029	1.3547	1.2401	1.1890	0.8668	0.8738	1.0419	1.4699	1.5559		
Total composite emission factor (g/Veh/mile)		2.26	1.64	1.62	1.73	1.45	1.17	1.57	0.98	2.30	2.64	2.15	1.73	1.74	1.70	1.86	1.78	2.19	2.00	1.92	1.40	1.41	1.68	2.37	2.51		

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: 2023

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	4	0	1	2	0
3	LGV4	0	0	0	0	0	0	0	6	9	10	3	4	3	3	4	4	3	4	3	1	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	0	6	9	10	2	3	2	1	2	3	3	2	3	2	0	0	1	
6	HGV7	0	0	0	0	0	0	2	4	24	27	18	12	15	14	17	15	16	14	1	2	0	0		
7	HGV8	0	0	0	0	0	0	2	4	24	27	18	12	15	14	17	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	1	1	1	1	1	1	1	1	1	1	1	1	1	0	
10	TAXI	1	0	1	0	0	0	3	9	13	15	2	2	1	2	2	1	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	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	2	2	2	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	
Total Flow (veh)		5	2	2	2	0	3	21	58	120	131	58	50	53	49	56	56	56	54	54	22	12	5	10	4

NOx 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	0.014	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
LGV3	0.568	0.568	0.568	0.568	0.568	0.568	0.568	0.568	0.568	0.568	0.568	0.568	0.568	0.568	0.568	0.568	0.568	0.568	0.568	0.568	0.568	0.568	0.568	0.568
LGV4	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740
PLB	1.235	1.235	1.235	1.235	1.235	1.235	1.235	1.235	1.235	1.235	1.235	1.235	1.235	1.235	1.235	1.235	1.235	1.235	1.235	1.235	1.235	1.235	1.235	1.235
LGV6	1.717	1.717	1.717	1.717	1.717	1.717	1.717	1.717	1.717	1.717	1.717	1.717	1.717	1.717	1.717	1.717	1.717	1.717	1.717	1.717	1.717	1.717	1.717	1.717
HGV7	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426
HGV8	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426	2.426
FBDD	2.976	2.976	2.976	2.976	2.976	2.976	2.976	2.976	2.976	2.976	2.976	2.976	2.976	2.976	2.976	2.976	2.976	2.976	2.976	2.976	2.976	2.976	2.976	2.976
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	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318
PV4	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
PV5	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837
NFB6	1.898	1.898	1.898	1.898	1.898	1.898	1.898	1.898	1.898	1.898	1.898	1.898	1.898	1.898	1.898	1.898	1.898	1.898	1.898	1.898	1.898	1.898	1.898	1.898
NFB7	2.546	2.546	2.546	2.546	2.546	2.546	2.546	2.546	2.546	2.546	2.546	2.546	2.546	2.546	2.546	2.546	2.546	2.546	2.546	2.546	2.546	2.546	2.546	2.546
NFB8	2.394	2.394	2.394	2.394	2.394	2.394	2.394	2.394	2.394	2.394	2.394	2.394	2.394	2.394	2.394	2.394	2.394	2.394	2.394	2.394	2.394	2.394	2.394	2.394
FBSD	2.757	2.757	2.757	2.757	2.757	2.757	2.757	2.757	2.757	2.757	2.757	2.757	2.757	2.757	2.757	2.757	2.757	2.757	2.757	2.757	2.757	2.757	2.757	2.757

Total composite emission factor (g/Veh/kr)	0.1857	0.2911	0.1662	0.2911	0.0000	0.1988	0.6938	0.8448	1.1735	1.1882	1.3888	1.3142	1.4351	1.4266	1.4960	1.3953	1.3953	1.4747	1.3703	0.5096	0.7917	0.5326	0.3569	0.5763
Total composite emission factor (g/Veh/mile)	0.30	0.47	0.27	0.47	0.00	0.32	1.12	1.36	1.89	1.92	2.24	2.12	2.31	2.30	2.41	2.25	2.25	2.38	2.21	0.82	1.28	0.86	0.58	0.93

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: 2023

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	14	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	8	6	3	2	0	
3	LGV4	0	0	0	0	0	0	2	1	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	1	5	5	7	5	5	5	6	5	5	6	5	3	1	0	0	
6	HGV7	0	0	0	0	0	0	1	2	14	15	5	5	4	4	4	5	5	4	5	2	1	0	0	
7	HGV8	0	0	0	0	0	0	1	2	14	15	5	5	4	4	4	5	5	4	5	2	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	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	
Total Flow (veh)		2	2	0	0	0	1	13	18	59	63	60	53	49	48	56	53	53	56	58	42	23	9	3	0

NOx 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	0.015	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
LGV3	0.577	0.577	0.577	0.577	0.577	0.577	0.577	0.577	0.577	0.577	0.577	0.577	0.577	0.577	0.577	0.577	0.577	0.577	0.577	0.577	0.577	0.577	0.577	0.577
LGV4	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538
PLB	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749
LGV6	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250
HGV7	1.742	1.742	1.742	1.742	1.742	1.742	1.742	1.742	1.742	1.742	1.742	1.742	1.742	1.742	1.742	1.742	1.742	1.742	1.742	1.742	1.742	1.742	1.742	1.742
HGV8	2.469	2.469	2.469	2.469	2.469	2.469	2.469	2.469	2.469	2.469	2.469	2.469	2.469	2.469	2.469	2.469	2.469	2.469	2.469	2.469	2.469	2.469	2.469	2.469
FBDD	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032
MC	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297
TAXI	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
PV4	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649
PV5	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848
NFB6	1.921	1.921	1.921	1.921	1.921	1.921	1.921	1.921	1.921	1.921	1.921	1.921	1.921	1.921	1.921	1.921	1.921	1.921	1.921	1.921	1.921	1.921	1.921	1.921
NFB7	2.577	2.577	2.577	2.577	2.577	2.577	2.577	2.577	2.577	2.577	2.577	2.577	2.577	2.577	2.577	2.577	2.577	2.577	2.577	2.577	2.577	2.577	2.577	2.577
NFB8	2.438	2.438	2.438	2.438	2.438	2.438	2.438	2.438	2.438	2.438	2.438	2.438	2.438	2.438	2.438	2.438	2.438	2.438	2.438	2.438	2.438	2.438	2.438	2.438
FBSD	2.808	2.808	2.808	2.808	2.808	2.808	2.808	2.808	2.808	2.808	2.808	2.808	2.808	2.808	2.808	2.808	2.808	2.808	2.808	2.808	2.808	2.808	2.808	2.808

Total composite emission factor (g/Veh/km)	0.1673	0.1673	0.0000	0.0000	0.0000	0.0145	0.7404	0.7216	1.2347	1.2325	0.8091	0.8312	0.8011	0.8111	0.7597	0.8312	0.8312	0.7597	0.8061	0.5689	0.5618	0.4029	0.1163	0.0000
Total composite emission factor (g/Veh/mile)	0.27	0.27	0.00	0.00	0.00	0.02	1.19	1.16	1.99	1.99	1.30	1.34	1.29	1.31	1.23	1.34	1.34	1.23	1.30	0.92	0.91	0.65	0.19	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: 2023

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	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	LGVB	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	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	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	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	
Total Flow (veh)		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	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	0.028	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
LGV3	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629
LGV4	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639
PLB	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657
LGVB	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990
HGV7	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408
HGV8	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134
FBDD	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435
MC	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427
TAXI	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	0.486	0.486	0.486	0.486	0.486	0.486	0.486
PV4	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078
PV5	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
NFB6	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487
NFB7	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020
NFB8	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461
FBSD	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534

Total composite emission factor (g/Veh/km)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.5710	7.5686	7.5859	7.5720	7.5841	7.5869	7.5693	7.5851	7.5789	7.5630	7.5896	0.0000	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.21	12.21	12.24	12.21	12.23	12.24	12.21	12.23	12.22	12.20	12.24	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: 2023

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	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	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	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	
Total Flow (veh)		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	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	0.028	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
LGV3	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629
LGV4	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639	1.639
PLB	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657	1.657
LGV6	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990	2.990
HGV7	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408
HGV8	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134
FBDD	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435	10.435
MC	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427
TAXI	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	0.486	0.486	0.486	0.486	0.486	0.486	0.486
PV4	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078
PV5	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
NFB6	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487	4.487
NFB7	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020
NFB8	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461	8.461
FBSD	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534	9.534

Total composite emission factor (g/Veh/km)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.5710	7.5686	7.5859	7.5720	7.5841	7.5889	7.5693	7.5851	7.5789	7.5630	7.5896	0.0000	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.21	12.21	12.24	12.21	12.23	12.24	12.21	12.23	12.22	12.20	12.24	0.00	0.00	0.00	0.00	0.00

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

0414816 TMFB

Pollutant Name: NO2 (g/veh/km)

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	0.001	0.135	0.132	0.234	0.837	1.335	0.961	0.480	0.738	0.021	0.012	0.203	0.507	1.256	1.627	0.729	0.931
17	0.001	0.097	0.095	0.180	0.609	0.968	0.621	0.306	0.473	0.019	0.011	0.174	0.391	0.978	1.267	0.463	0.600
18	0.001	0.094	0.092	0.174	0.589	0.934	0.593	0.291	0.451	0.019	0.011	0.171	0.377	0.944	1.223	0.441	0.572
27	0.001	0.071	0.068	0.136	0.463	0.725	0.428	0.206	0.322	0.017	0.009	0.146	0.283	0.707	0.916	0.314	0.410
28	0.001	0.069	0.066	0.133	0.453	0.708	0.416	0.200	0.312	0.017	0.009	0.144	0.276	0.688	0.891	0.304	0.397
29	0.001	0.067	0.064	0.130	0.444	0.692	0.404	0.194	0.303	0.017	0.009	0.142	0.269	0.670	0.868	0.295	0.386
30	0.001	0.065	0.062	0.127	0.436	0.677	0.394	0.188	0.295	0.017	0.009	0.140	0.262	0.654	0.848	0.287	0.376
31	0.001	0.062	0.058	0.125	0.427	0.660	0.384	0.183	0.287	0.016	0.009	0.138	0.256	0.638	0.826	0.280	0.366
32	0.001	0.061	0.057	0.123	0.420	0.646	0.374	0.178	0.279	0.016	0.009	0.137	0.252	0.629	0.815	0.272	0.356
33	0.001	0.059	0.055	0.121	0.412	0.634	0.365	0.174	0.272	0.016	0.009	0.135	0.249	0.621	0.804	0.266	0.347
34	0.001	0.058	0.054	0.120	0.405	0.622	0.357	0.169	0.266	0.016	0.009	0.133	0.245	0.613	0.793	0.259	0.339
35	0.001	0.057	0.053	0.118	0.399	0.610	0.349	0.165	0.259	0.016	0.009	0.132	0.242	0.604	0.783	0.253	0.331
36	0.001	0.055	0.051	0.117	0.392	0.599	0.341	0.161	0.253	0.016	0.009	0.131	0.239	0.596	0.772	0.247	0.323
37	0.001	0.054	0.050	0.115	0.386	0.589	0.334	0.158	0.248	0.016	0.009	0.129	0.235	0.589	0.762	0.242	0.316
38	0.001	0.053	0.049	0.114	0.380	0.579	0.327	0.154	0.242	0.015	0.009	0.128	0.232	0.581	0.752	0.237	0.309
39	0.001	0.052	0.048	0.112	0.375	0.570	0.320	0.151	0.237	0.015	0.008	0.127	0.229	0.573	0.743	0.232	0.303
40	0.001	0.051	0.047	0.111	0.369	0.560	0.314	0.147	0.232	0.015	0.008	0.126	0.226	0.566	0.733	0.227	0.297
41	0.001	0.050	0.046	0.109	0.364	0.552	0.308	0.144	0.227	0.015	0.008	0.125	0.223	0.559	0.724	0.222	0.291
42	0.001	0.049	0.045	0.108	0.359	0.543	0.302	0.141	0.223	0.015	0.008	0.124	0.220	0.552	0.714	0.218	0.285
43	0.001	0.049	0.044	0.107	0.355	0.535	0.297	0.139	0.219	0.015	0.008	0.123	0.218	0.545	0.705	0.214	0.279
44	0.001	0.048	0.043	0.106	0.350	0.527	0.292	0.136	0.214	0.015	0.008	0.123	0.215	0.538	0.697	0.210	0.274
45	0.001	0.047	0.043	0.104	0.346	0.520	0.287	0.133	0.210	0.015	0.008	0.122	0.212	0.531	0.688	0.206	0.269
50	0.001	0.043	0.039	0.099	0.326	0.486	0.264	0.122	0.193	0.014	0.008	0.119	0.200	0.501	0.648	0.189	0.247
51	0.001	0.043	0.039	0.098	0.325	0.486	0.260	0.120	0.192	0.014	0.008	0.119	0.198	0.495	0.641	0.186	0.246
52	0.001	0.043	0.039	0.097	0.325	0.486	0.256	0.118	0.192	0.014	0.008	0.119	0.195	0.490	0.634	0.184	0.246
53	0.001	0.043	0.038	0.096	0.325	0.485	0.253	0.116	0.192	0.014	0.008	0.119	0.193	0.484	0.627	0.181	0.246
54	0.001	0.043	0.038	0.095	0.324	0.485	0.249	0.114	0.191	0.014	0.008	0.119	0.191	0.479	0.620	0.178	0.245

EMFAC-HK Model (v 3.4) Key Assumptions:

Mode: EMFAC

Calendar Year 2023

Temperature and relative humidity 24 degree C, 77% (2017 average at Tuen Mun Weather Station)

Vehicle Population (external roads) Default

Vehicle Population (internal roads All HGV8 (year 2019) are of Euro V standard

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: 2023

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	34	121	176	189	253	245	220	211	240	235	232	225	248	220	167	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	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	53	54	55	50	51	20	10	6
6	HGV7	0	0	0	0	0	0	0	11	26	296	376	292	257	251	234	281	277	280	262	225	22	17	4	0
7	HGV8	0	0	0	0	0	0	26	61	689	875	679	624	587	545	656	646	653	611	524	52	38	10	0	0
8	FBDD	2	1	1	0	0	0	2	4	4	11	11	9	9	11	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	5	6	6	6	6	6	6	5	4	4	4
10	TAXI	9	5	6	4	5	7	16	66	90	98	100	103	93	89	101	99	98	101	104	93	77	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
Total Flow (veh)		61	33	30	24	24	47	139	360	1415	1714	1619	1516	1407	1324	1559	1534	1537	1480	1391	643	541	226	139	98

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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
LGV3	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.057	0.069	0.071	0.057	0.050	0.049	0.048	0.050	0.050	0.058	0.067	0.062	0.051	0.051	0.043	0.043	0.043	0.043
LGV4	0.039	0.038	0.038	0.038	0.038	0.038	0.039	0.053	0.066	0.068	0.053	0.046	0.045	0.043	0.046	0.046	0.054	0.064	0.058	0.047	0.047	0.039	0.039	0.039	0.039
PLB	0.097	0.096	0.096	0.096	0.096	0.096	0.098	0.118	0.133	0.136	0.118	0.109	0.108	0.106	0.109	0.109	0.120	0.130	0.125	0.111	0.111	0.099	0.098	0.097	0.097
LGV6	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.399	0.453	0.463	0.399	0.364	0.359	0.350	0.364	0.364	0.405	0.444	0.427	0.369	0.369	0.326	0.325	0.325	0.325
HGV7	0.486	0.485	0.485	0.485	0.485	0.485	0.486	0.610	0.708	0.725	0.610	0.552	0.543	0.527	0.552	0.552	0.622	0.692	0.660	0.560	0.560	0.486	0.486	0.486	0.486
HGV8	0.256	0.253	0.253	0.253	0.253	0.253	0.260	0.349	0.416	0.428	0.349	0.308	0.302	0.292	0.308	0.308	0.357	0.404	0.384	0.314	0.314	0.264	0.260	0.256	0.256
FBDD	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.259	0.312	0.322	0.259	0.227	0.223	0.214	0.227	0.227	0.266	0.303	0.287	0.232	0.232	0.193	0.192	0.192	0.192
MC	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.016	0.017	0.017	0.016	0.015	0.015	0.015	0.015	0.015	0.016	0.017	0.016	0.015	0.015	0.014	0.014	0.014	0.014
TAXI	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.008	0.008
PV4	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.132	0.144	0.146	0.132	0.125	0.124	0.123	0.125	0.125	0.133	0.142	0.138	0.126	0.126	0.119	0.119	0.119	0.119
PV5	0.195	0.193	0.193	0.193	0.193	0.193	0.198	0.242	0.276	0.283	0.242	0.223	0.220	0.215	0.223	0.223	0.245	0.269	0.256	0.226	0.226	0.200	0.198	0.195	0.195
NFB6	0.490	0.484	0.484	0.484	0.484	0.484	0.495	0.604	0.688	0.707	0.604	0.559	0.552	0.538	0.559	0.559	0.613	0.670	0.638	0.566	0.566	0.501	0.495	0.490	0.490
NFB7	0.634	0.627	0.627	0.627	0.627	0.627	0.641	0.783	0.891	0.916	0.783	0.724	0.714	0.697	0.724	0.724	0.793	0.868	0.826	0.733	0.733	0.648	0.641	0.634	0.634
NFB8	0.184	0.181	0.181	0.181	0.181	0.181	0.186	0.253	0.304	0.314	0.253	0.222	0.218	0.210	0.222	0.222	0.259	0.295	0.280	0.227	0.227	0.189	0.186	0.184	0.184
FBSD	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.331	0.397	0.410	0.331	0.291	0.285	0.274	0.291	0.291	0.339	0.386	0.366	0.297	0.297	0.247	0.246	0.246	0.246
Total composite emission factor (g/Veh/km)		0.1259	0.0910	0.0971	0.1242	0.1095	0.0995	0.1498	0.1518	0.3774	0.4024	0.2984	0.2623	0.2607	0.2504	0.2668	0.2672	0.3068	0.3390	0.3031	0.1296	0.1306	0.1416	0.1519	0.1886
Total composite emission factor (g/Veh/mile)		0.20	0.15	0.16	0.20	0.18	0.16	0.24	0.24	0.61	0.65	0.48	0.42	0.42	0.40	0.43	0.43	0.49	0.55	0.49	0.21	0.21	0.23	0.24	0.30

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: 2023

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	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	4	4	5	5	5	5	5	5	4	4	3	3	3	
3	LGV4	2	1	1	0	0	0	1	0	3	4	3	3	3	3	3	3	3	4	3	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	4	3	3	3	3	3	3	3	4	3	3	3	3	2	
6	HGV7	0	0	0	0	0	0	2	74	79	67	62	58	63	62	61	63	65	2	1	1	0	0	0	
7	HGV8	0	0	0	0	0	0	6	18	446	378	351	327	315	359	351	344	359	373	13	6	6	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	2	1	1	1	1	1	2	4	5	5	3	3	5	3	5	3	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	
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	
Total Flow (veh)		13	7	6	3	3	3	15	32	513	549	480	440	411	397	453	440	432	453	473	41	28	24	17	13

NO2 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	0:00
PC	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
LGV3	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.094	0.094	0.094	0.094	0.094	0.094
LGV4	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.092	0.092	0.092	0.092	0.092	0.092
PLB	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.174	0.174	0.174	0.174	0.174	0.174
LGV6	0.589	0.589	0.589	0.589	0.589	0.589	0.589	0.589	0.609	0.609	0.609	0.609	0.609	0.609	0.609	0.609	0.609	0.609	0.609	0.589	0.589	0.589	0.589	0.589	0.589
HGV7	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.968	0.968	0.968	0.968	0.968	0.968	0.968	0.968	0.968	0.968	0.968	0.934	0.934	0.934	0.934	0.934	0.934
HGV8	0.593	0.593	0.593	0.593	0.593	0.593	0.593	0.593	0.621	0.621	0.621	0.621	0.621	0.621	0.621	0.621	0.621	0.621	0.621	0.593	0.593	0.593	0.593	0.593	0.593
FBDD	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.473	0.473	0.473	0.473	0.473	0.473	0.473	0.473	0.473	0.473	0.451	0.451	0.451	0.451	0.451	0.451	0.451
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	0.019
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	0.011
PV4	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.171	0.171	0.171	0.171	0.171	0.171
PV5	0.377	0.377	0.377	0.377	0.377	0.377	0.377	0.377	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.377	0.377	0.377	0.377	0.377	0.377
NFB6	0.944	0.944	0.944	0.944	0.944	0.944	0.944	0.944	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.944	0.944	0.944	0.944	0.944	0.944
NFB7	1.223	1.223	1.223	1.223	1.223	1.223	1.223	1.223	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.223	1.223	1.223	1.223	1.223	1.223
NFB8	0.441	0.441	0.441	0.441	0.441	0.441	0.441	0.441	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.441	0.441	0.441	0.441	0.441	0.441
FBSD	0.572	0.572	0.572	0.572	0.572	0.572	0.572	0.572	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.572	0.572	0.572	0.572	0.572	0.572
Total composite emission factor (g/Veh/km)		0.1283	0.1126	0.1312	0.0352	0.0352	0.0352	0.4143	0.4384	0.6485	0.6487	0.6313	0.6379	0.6370	0.6358	0.6328	0.6379	0.6374	0.6328	0.6300	0.2937	0.2476	0.2848	0.1378	0.1276
Total composite emission factor (g/Veh/mile)		0.21	0.18	0.21	0.06	0.06	0.06	0.67	0.71	1.05	1.05	1.02	1.03	1.03	1.03	1.02	1.03	1.03	1.02	1.02	0.47	0.40	0.46	0.22	0.21

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: 2023

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	31	116	168	181	236	232	207	198	225	222	219	210	231	207	157	44	25	14
2	LG3	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	LG4	2	1	1	3	2	7	10	17	33	35	58	55	51	49	56	55	55	56	51	51	14	8	4	4
4	FLB	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	LG6	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	0	9	24	222	297	225	205	193	178	218	215	219	199	160	20	16	3	0
7	HGV8	0	0	0	0	0	0	0	20	43	273	429	301	273	260	230	297	295	309	252	151	39	32	4	0
8	FBDD	2	1	1	0	0	0	2	4	4	11	11	9	9	11	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	6	5	4	4	4
10	TAXI	7	4	5	3	4	6	15	64	86	93	95	100	90	86	96	95	96	99	90	76	33	14	4	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	FBS	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	13	13	13	11	9	8	8	7
Total Flow (veh)		48	26	24	21	21	44	124	328	902	1165	1139	1076	996	927	1106	1094	1105	1027	918	602	513	202	122	85

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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
LG3	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.057	0.057	0.057	0.048	0.048	0.049	0.050	0.050	0.058	0.067	0.062	0.050	0.048	0.043	0.043	0.043	0.043	0.043
LG4	0.039	0.038	0.038	0.038	0.038	0.038	0.039	0.050	0.053	0.053	0.053	0.043	0.043	0.044	0.046	0.046	0.054	0.064	0.058	0.048	0.043	0.039	0.039	0.039	0.039
FLB	0.097	0.096	0.096	0.096	0.096	0.096	0.098	0.115	0.118	0.118	0.118	0.106	0.106	0.107	0.109	0.109	0.120	0.130	0.125	0.109	0.106	0.099	0.098	0.097	0.097
LG6	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.386	0.399	0.399	0.399	0.350	0.350	0.355	0.364	0.364	0.405	0.444	0.427	0.364	0.350	0.326	0.325	0.325	
HGV7	0.486	0.485	0.485	0.485	0.485	0.485	0.486	0.589	0.610	0.610	0.610	0.527	0.527	0.535	0.552	0.552	0.622	0.692	0.660	0.552	0.527	0.486	0.486	0.486	
HGV8	0.256	0.253	0.253	0.253	0.253	0.260	0.334	0.349	0.349	0.349	0.349	0.292	0.292	0.297	0.308	0.308	0.357	0.404	0.384	0.308	0.292	0.264	0.260	0.256	
FBDD	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.248	0.259	0.259	0.259	0.214	0.214	0.219	0.227	0.227	0.266	0.303	0.287	0.227	0.214	0.193	0.192	0.192	
MC	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.016	0.016	0.016	0.016	0.015	0.015	0.015	0.015	0.015	0.016	0.017	0.016	0.015	0.014	0.014	0.014	0.014	
TAXI	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.008	
PV4	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.129	0.132	0.132	0.132	0.123	0.123	0.123	0.125	0.125	0.133	0.142	0.138	0.125	0.123	0.119	0.119	0.119	
PV5	0.195	0.193	0.193	0.193	0.193	0.193	0.198	0.235	0.242	0.242	0.242	0.215	0.215	0.218	0.223	0.223	0.245	0.269	0.256	0.223	0.215	0.200	0.198	0.195	
NFB6	0.490	0.484	0.484	0.484	0.484	0.484	0.495	0.589	0.604	0.604	0.604	0.538	0.538	0.545	0.559	0.559	0.613	0.670	0.638	0.559	0.538	0.501	0.495	0.490	
NFB7	0.634	0.627	0.627	0.627	0.627	0.627	0.641	0.762	0.783	0.783	0.783	0.697	0.697	0.705	0.724	0.724	0.793	0.868	0.826	0.724	0.697	0.648	0.641	0.634	
NFB8	0.184	0.181	0.181	0.181	0.181	0.181	0.186	0.242	0.253	0.253	0.253	0.210	0.210	0.214	0.222	0.222	0.259	0.295	0.280	0.222	0.210	0.189	0.186	0.184	
FBS	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.316	0.331	0.331	0.331	0.274	0.274	0.279	0.291	0.291	0.339	0.386	0.366	0.291	0.274	0.247	0.246	0.246	
Total composite emission factor (g/Veh/km)		0.1418	0.0996	0.1041	0.1395	0.1227	0.1051	0.1441	0.1356	0.2902	0.3134	0.2706	0.2249	0.2287	0.2287	0.2433	0.2432	0.2799	0.3028	0.2542	0.1253	0.1225	0.1420	0.1629	0.2073
Total composite emission factor (g/Veh/mile)		0.23	0.16	0.17	0.23	0.20	0.17	0.23	0.22	0.47	0.51	0.44	0.36	0.37	0.37	0.39	0.39	0.45	0.49	0.41	0.20	0.20	0.23	0.26	0.33

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: 2023

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	30	114	165	178	222	198	190	215	212	209	200	221	198	149	38	19	9	
2	LGV3	2	4	4	2	2	7	16	25	48	52	65	62	58	55	63	62	61	63	64	58	18	6	3	
3	LGV4	1	1	1	3	2	7	10	17	32	34	54	52	48	46	53	52	52	53	52	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	7	6	
5	LGV6	1	1	1	3	2	7	10	14	32	34	49	47	44	42	48	47	48	47	44	45	14	4	2	
6	HGV7	0	0	0	0	0	0	9	23	205	265	195	177	167	154	190	187	189	173	152	19	16	3	0	0
7	HGV8	0	0	0	0	0	0	17	37	182	253	137	119	112	98	137	139	137	100	103	33	29	3	0	0
8	FBDD	2	1	1	0	0	0	2	4	11	11	9	11	11	11	11	11	11	11	9	8	7	6	6	
9	MC	0	0	0	0	0	0	0	1	6	6	6	6	6	6	6	6	6	6	6	6	5	4	4	4
10	TAXI	5	4	5	3	4	6	15	62	84	91	88	94	85	81	90	90	89	90	92	85	71	29	10	1
11	PV4	1	0	0	0	0	0	1	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	1	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	13	13	13	11	9	8	8	7
Total Flow (veh)		40	25	23	21	21	44	120	315	785	948	913	868	798	748	892	884	877	823	831	571	487	181	102	71

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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
LGV3	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.057	0.058	0.058	0.059	0.049	0.049	0.049	0.050	0.048	0.059	0.059	0.059	0.058	0.058	0.043	0.043	0.043	0.043
LGV4	0.039	0.038	0.038	0.038	0.038	0.038	0.039	0.053	0.054	0.054	0.055	0.045	0.045	0.045	0.046	0.043	0.055	0.055	0.055	0.054	0.054	0.039	0.039	0.039	0.039
PLB	0.097	0.096	0.096	0.096	0.096	0.096	0.098	0.118	0.120	0.120	0.121	0.108	0.108	0.108	0.109	0.106	0.121	0.121	0.121	0.120	0.120	0.099	0.098	0.097	0.097
LGV6	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.399	0.405	0.405	0.412	0.359	0.359	0.359	0.364	0.350	0.412	0.412	0.412	0.405	0.405	0.326	0.325	0.325	0.325
HGV7	0.486	0.485	0.485	0.485	0.485	0.485	0.486	0.610	0.622	0.622	0.634	0.543	0.543	0.543	0.552	0.527	0.634	0.634	0.634	0.622	0.622	0.486	0.486	0.486	0.486
HGV8	0.256	0.253	0.253	0.253	0.253	0.253	0.260	0.349	0.357	0.357	0.365	0.302	0.302	0.302	0.308	0.292	0.365	0.365	0.365	0.357	0.357	0.264	0.260	0.256	0.256
FBDD	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.259	0.266	0.266	0.272	0.223	0.223	0.223	0.227	0.214	0.272	0.272	0.272	0.266	0.266	0.193	0.192	0.192	0.192
MC	0.014	0.014	0.014	0.014	0.014	0.014	0.016	0.016	0.016	0.016	0.016	0.015	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016	0.014	0.014	0.014	0.014
TAXI	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.008	0.008	0.008	0.008
PV4	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.132	0.133	0.133	0.135	0.124	0.124	0.124	0.125	0.123	0.135	0.135	0.135	0.133	0.133	0.119	0.119	0.119	0.119
PV5	0.195	0.193	0.193	0.193	0.193	0.193	0.198	0.242	0.245	0.245	0.249	0.220	0.220	0.220	0.223	0.215	0.249	0.249	0.249	0.245	0.245	0.200	0.198	0.195	0.195
NFB6	0.490	0.484	0.484	0.484	0.484	0.484	0.495	0.604	0.613	0.613	0.621	0.552	0.552	0.552	0.559	0.538	0.621	0.621	0.621	0.613	0.613	0.501	0.495	0.490	0.490
NFB7	0.634	0.627	0.627	0.627	0.627	0.627	0.641	0.783	0.793	0.793	0.804	0.714	0.714	0.714	0.724	0.697	0.804	0.804	0.804	0.793	0.793	0.648	0.641	0.634	0.634
NFB8	0.184	0.181	0.181	0.181	0.181	0.181	0.186	0.253	0.259	0.259	0.266	0.218	0.218	0.218	0.222	0.210	0.266	0.266	0.266	0.259	0.259	0.189	0.186	0.184	0.184
FBSD	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.331	0.339	0.339	0.347	0.285	0.285	0.285	0.291	0.274	0.347	0.347	0.347	0.339	0.339	0.247	0.246	0.246	0.246

Total composite emission factor (g/Veh/km)	0.1585	0.1035	0.1086	0.1395	0.1227	0.1051	0.1424	0.1365	0.2846	0.3051	0.2625	0.2149	0.2190	0.2152	0.2275	0.2172	0.2647	0.2549	0.2395	0.1410	0.1463	0.1498	0.1821	0.2363
Total composite emission factor (g/Veh/mile)	0.26	0.17	0.18	0.23	0.20	0.17	0.23	0.22	0.46	0.49	0.42	0.35	0.35	0.35	0.37	0.35	0.43	0.41	0.39	0.23	0.24	0.24	0.29	0.38

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: 2023

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	2	5	11	13	9	7	7	9	7	7	9	7	7	9	7	2	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	0	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	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	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	0	0
6	HGV7	0	0	0	0	0	0	1	3	6	7	5	4	4	5	4	4	5	5	3	2	2	0	0	0	0
7	HGV8	0	0	0	0	0	0	3	20	37	40	28	25	24	23	28	25	24	28	28	20	8	1	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	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	0
10	TAXI	0	0	0	0	0	0	2	4	8	10	6	4	4	4	6	4	6	6	4	1	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	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	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	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	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	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	0
Total Flow (veh)		0	0	0	0	0	0	8	32	67	75	49	41	40	39	49	41	40	49	49	35	13	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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
LGV3	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	0.052
LGV4	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	0.048
PLB	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
LGV6	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
HGV7	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570
HGV8	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	0.320
FBDD	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237
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	0.015
TAXI	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	0.008
PV4	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	0.127	0.127
PV5	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229
NFB6	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573
NFB7	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743
NFB8	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232
FBSD	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	0.303
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1936	0.2547	0.2394	0.2346	0.2434	0.2531	0.2514	0.2496	0.2434	0.2531	0.2514	0.2434	0.2434	0.2344	0.2855	0.3203	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.41	0.39	0.38	0.39	0.41	0.41	0.40	0.39	0.41	0.41	0.39	0.39	0.38	0.46	0.52	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: 2023

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	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	1	2	5	5	2	3	2	2	3	2	2	2	1	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	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			
Total Flow (veh)		0	0	0	0	0	0	1	2	11	12	5	5	4	5	5	4	5	4	5	4	5	4	1	2	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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
LGV3	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	0.049	0.049
LGV4	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	0.044	0.044
PLB	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	0.107	0.107
LGV6	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355
HGV7	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535
HGV8	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297
FBDD	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	0.219	0.219	0.219
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	0.015	0.015
TAXI	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	0.008	0.008
PV4	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	0.123	0.123
PV5	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218
NFB6	0.545	0.545	0.545	0.545	0.545	0.545	0.545	0.545	0.545	0.545	0.545	0.545	0.545	0.545	0.545	0.545	0.545	0.545	0.545	0.545	0.545	0.545	0.545	0.545	0.545	0.545
NFB7	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705
NFB8	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214
FBSD	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279

Total composite emission factor (g/Veh/km)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2968	0.2968	0.1629	0.1749	0.1287	0.1799	0.1607	0.1302	0.1287	0.2247	0.1302	0.1607	0.1287	0.0886	0.2968	0.1488	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.26	0.28	0.21	0.29	0.26	0.21	0.21	0.36	0.21	0.26	0.21	0.14	0.48	0.24	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: 2023

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	2	5	13	16	11	8	8	11	7	8	10	11	8	2	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		
4	PLB	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0		
5	LGV6	0	0	0	0	0	0	0	0	1	2	5	4	4	5	4	5	4	5	3	2	0	0		
6	HGV7	0	0	0	0	0	0	1	3	6	7	5	4	4	5	4	5	5	5	3	2	0	0		
7	HGV8	0	0	0	0	0	0	4	20	42	45	30	28	26	25	30	28	26	30	16	9	2	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	2	4	8	10	6	5	4	5	6	5	6	6	5	1	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		
Total Flow (veh)		0	0	0	0	0	0	9	32	78	87	54	46	44	44	54	45	45	53	54	34	14	3	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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
LGV3	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
LGV4	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
PLB	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114
LGV6	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
HGV7	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579
HGV8	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
FBDD	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242
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	0.009	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	0.128	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
PV5	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232
NFB6	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581
NFB7	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752
NFB8	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237
FBSD	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.2117	0.2597	0.2349	0.2325	0.2383	0.2515	0.2491	0.2419	0.2383	0.2571	0.2438	0.2428	0.2383	0.2095	0.2936	0.2182	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.34	0.42	0.38	0.37	0.38	0.41	0.40	0.39	0.38	0.41	0.39	0.39	0.38	0.34	0.47	0.35	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: 2023

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	2	5	13	16	11	8	8	11	7	8	10	11	8	2	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	2	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	1	3	6	7	5	4	4	5	4	4	5	5	3	2	0	0		
7	HGV8	0	0	0	0	0	0	4	20	42	45	30	28	26	25	30	28	30	30	16	9	2	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	2	4	8	10	6	5	4	5	6	5	5	6	6	5	1	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		
Total Flow (veh)		0	0	0	0	0	9	32	78	87	54	46	44	44	54	45	45	53	54	34	14	3	0		

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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
LGV3	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
LGV4	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
PLB	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114
LGV6	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
HGV7	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579
HGV8	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
FBDD	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242
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	0.009	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	0.128	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
PV5	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232
NFB6	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581	0.581
NFB7	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752
NFB8	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237
FBSD	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2117	0.2597	0.2349	0.2325	0.2383	0.2515	0.2491	0.2419	0.2383	0.2571	0.2438	0.2428	0.2383	0.2095	0.2936	0.2182	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.42	0.38	0.37	0.38	0.41	0.40	0.39	0.38	0.41	0.39	0.39	0.38	0.34	0.47	0.35	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: 2023

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	24	100	138	147	197	199	175	168	188	190	186	174	194	175	135	27	11	7
2	LGV3	2	4	4	2	2	6	13	20	38	43	56	54	50	47	54	54	52	54	55	50	53	18	6	3
3	LGV4	1	1	1	3	2	2	3	6	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	12	25	26	43	41	39	37	42	41	42	42	41	39	40	14	4	2
6	HGV7	0	0	0	0	0	0	8	18	192	250	185	169	159	146	180	179	181	163	142	14	13	3	0	0
7	HGV8	0	0	0	0	0	0	9	12	102	166	82	67	63	52	83	87	87	46	49	10	10	0	0	0
8	FBDD	2	1	1	0	0	0	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6	6
9	MC	0	0	0	0	0	0	0	1	1	6	6	6	5	6	6	6	6	6	6	6	5	4	4	4
10	TAXI	4	3	3	2	3	5	12	53	67	72	72	79	72	67	74	75	74	74	76	71	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	FBS0	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
Total Flow (veh)		35	21	19	17	17	37	97	253	619	767	783	750	687	640	764	767	762	696	703	488	428	161	89	69

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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
LGV3	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.057	0.058	0.058	0.059	0.049	0.049	0.049	0.050	0.048	0.059	0.059	0.059	0.058	0.058	0.043	0.043	0.043	0.043
LGV4	0.039	0.038	0.038	0.038	0.038	0.038	0.039	0.053	0.054	0.054	0.055	0.045	0.045	0.045	0.046	0.043	0.055	0.055	0.055	0.054	0.054	0.039	0.039	0.039	0.039
PLB	0.097	0.098	0.098	0.098	0.098	0.098	0.098	0.118	0.120	0.120	0.121	0.108	0.108	0.108	0.109	0.108	0.121	0.121	0.121	0.120	0.120	0.099	0.098	0.097	0.097
LGV6	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.399	0.405	0.405	0.412	0.359	0.359	0.359	0.384	0.350	0.412	0.412	0.412	0.405	0.405	0.325	0.325	0.325	0.325
HGV7	0.486	0.485	0.485	0.485	0.485	0.485	0.486	0.610	0.622	0.622	0.634	0.543	0.543	0.543	0.552	0.527	0.634	0.634	0.634	0.622	0.622	0.486	0.486	0.486	0.486
HGV8	0.256	0.253	0.253	0.253	0.253	0.253	0.260	0.349	0.357	0.357	0.365	0.302	0.302	0.302	0.308	0.292	0.365	0.365	0.365	0.357	0.357	0.264	0.260	0.256	0.256
FBDD	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.259	0.266	0.266	0.272	0.223	0.223	0.223	0.227	0.214	0.272	0.272	0.272	0.266	0.266	0.193	0.192	0.192	0.192
MC	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.016	0.016	0.016	0.016	0.015	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016	0.014	0.014	0.014	0.014
TAXI	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.008	0.008	0.008	0.008
PV4	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.132	0.133	0.133	0.135	0.124	0.124	0.124	0.125	0.123	0.135	0.135	0.135	0.133	0.133	0.119	0.119	0.119	0.119
PV5	0.195	0.193	0.193	0.193	0.193	0.193	0.198	0.242	0.245	0.245	0.249	0.220	0.220	0.220	0.223	0.215	0.249	0.249	0.249	0.245	0.245	0.200	0.198	0.195	0.195
NFB6	0.490	0.484	0.484	0.484	0.484	0.484	0.495	0.604	0.613	0.613	0.621	0.552	0.552	0.552	0.559	0.538	0.621	0.621	0.621	0.613	0.613	0.501	0.495	0.490	0.490
NFB7	0.634	0.627	0.627	0.627	0.627	0.627	0.641	0.783	0.793	0.793	0.804	0.714	0.714	0.714	0.724	0.697	0.804	0.804	0.804	0.793	0.793	0.648	0.641	0.634	0.634
NFB8	0.184	0.181	0.181	0.181	0.181	0.181	0.186	0.253	0.259	0.259	0.266	0.218	0.218	0.218	0.222	0.210	0.266	0.266	0.266	0.259	0.259	0.189	0.186	0.184	0.184
FBS0	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.331	0.339	0.339	0.347	0.285	0.285	0.285	0.291	0.274	0.347	0.347	0.347	0.339	0.339	0.247	0.246	0.246	0.246
Total composite emission factor (g/Veh/km)		0.1808	0.1228	0.1306	0.1718	0.1509	0.1138	0.1443	0.1184	0.2945	0.3181	0.2678	0.2180	0.2228	0.2190	0.2326	0.2213	0.2700	0.2590	0.2411	0.1359	0.1401	0.1632	0.2082	0.2431
Total composite emission factor (g/Veh/mile)		0.29	0.20	0.21	0.28	0.24	0.18	0.23	0.19	0.47	0.51	0.43	0.35	0.36	0.35	0.38	0.36	0.44	0.42	0.39	0.22	0.23	0.26	0.34	0.39

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: 2023

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	4	3	2	3	3	3	4	9	14	15	17	15	13	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	7	6	5	0	0	
3	LGV4	0	0	0	0	0	1	1	2	6	6	6	5	5	6	6	5	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	
5	LGV6	0	0	0	0	0	1	1	2	6	6	6	5	5	6	6	5	6	6	5	5	5	0	0	
6	HGV7	0	0	0	0	0	0	0	2	7	8	5	4	4	4	5	4	4	5	5	2	1	0	0	
7	HGV8	0	0	0	0	0	0	4	5	38	42	25	24	23	21	24	24	24	24	24	7	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	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	2	1	1	1	1	5	9	9	10	10	9	9	10	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	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	
Total Flow (veh)		5	4	4	4	4	7	14	30	88	94	76	72	67	64	74	72	70	74	74	49	45	17	13	2

NO2 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
PC	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
LGV3	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
LGV4	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058
PLB	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
LGV6	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427	0.427
HGV7	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660
HGV8	0.384	0.384	0.384	0.384	0.384	0.384	0.384	0.384	0.384	0.384	0.384	0.384	0.384	0.384	0.384	0.384	0.384	0.384	0.384	0.384	0.384	0.384	0.384	0.384
FBDD	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287
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	0.009	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	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138
PV5	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256
NFB6	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638
NFB7	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
NFB8	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
FBSD	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366

Total composite emission factor (g/Veh/km)	0.0025	0.0029	0.0050	0.0029	0.0029	0.0799	0.1585	0.1524	0.2580	0.2648	0.2151	0.2125	0.2143	0.2123	0.2157	0.2125	0.2116	0.2157	0.2157	0.1408	0.1624	0.0263	0.0040	0.0009
Total composite emission factor (g/Veh/mile)	0.00	0.00	0.01	0.00	0.00	0.13	0.26	0.25	0.42	0.43	0.35	0.34	0.35	0.34	0.35	0.34	0.35	0.34	0.35	0.23	0.26	0.04	0.01	0.00

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: 2023

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	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	7	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		
5	LGV6	0	0	0	0	0	0	4	7	14	15	9	8	7	6	8	8	8	9	7	3	2	1	1	
6	HGV7	0	0	0	0	0	0	3	7	38	42	21	17	19	18	21	20	20	19	3	3	0	0	0	
7	HGV8	0	0	0	0	0	0	3	6	38	42	21	17	19	18	21	20	20	19	3	3	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	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	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	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	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	
Total Flow (veh)		7	4	2	2	0	4	34	76	179	194	118	103	102	97	112	109	109	110	112	64	35	14	13	4

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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
LGV3	0.055	0.055	0.055	0.055	0.055	0.055	0.058	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.061	0.061	0.061	0.059	0.059	0.059	0.059	0.055	0.055
LGV4	0.051	0.051	0.051	0.051	0.051	0.051	0.054	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.057	0.057	0.057	0.055	0.055	0.055	0.055	0.051	0.051
PLB	0.117	0.117	0.117	0.117	0.117	0.117	0.120	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.123	0.123	0.123	0.121	0.121	0.121	0.121	0.117	0.117
LGV6	0.392	0.392	0.392	0.392	0.392	0.392	0.405	0.412	0.412	0.412	0.412	0.412	0.412	0.412	0.412	0.412	0.420	0.420	0.420	0.412	0.412	0.412	0.412	0.392	0.392
HGV7	0.599	0.599	0.599	0.599	0.599	0.599	0.622	0.634	0.634	0.634	0.634	0.634	0.634	0.634	0.634	0.634	0.646	0.646	0.646	0.634	0.634	0.634	0.634	0.599	0.599
HGV8	0.341	0.341	0.341	0.341	0.341	0.341	0.357	0.365	0.365	0.365	0.365	0.365	0.365	0.365	0.365	0.374	0.374	0.374	0.365	0.365	0.365	0.365	0.341	0.341	
FBDD	0.253	0.253	0.253	0.253	0.253	0.253	0.266	0.272	0.272	0.272	0.272	0.272	0.272	0.272	0.272	0.272	0.279	0.279	0.279	0.272	0.272	0.272	0.272	0.253	0.253
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	0.016
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	0.009
PV4	0.131	0.131	0.131	0.131	0.131	0.131	0.133	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.137	0.137	0.137	0.135	0.135	0.135	0.135	0.131	0.131
PV5	0.239	0.239	0.239	0.239	0.239	0.239	0.245	0.249	0.249	0.249	0.249	0.249	0.249	0.249	0.249	0.249	0.252	0.252	0.252	0.249	0.249	0.249	0.249	0.239	0.239
NFB6	0.596	0.596	0.596	0.596	0.596	0.596	0.613	0.621	0.621	0.621	0.621	0.621	0.621	0.621	0.621	0.621	0.629	0.629	0.629	0.621	0.621	0.621	0.621	0.596	0.596
NFB7	0.772	0.772	0.772	0.772	0.772	0.772	0.793	0.804	0.804	0.804	0.804	0.804	0.804	0.804	0.804	0.804	0.815	0.815	0.815	0.804	0.804	0.804	0.804	0.772	0.772
NFB8	0.247	0.247	0.247	0.247	0.247	0.247	0.259	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.272	0.272	0.272	0.266	0.266	0.266	0.266	0.247	0.247
FBSD	0.323	0.323	0.323	0.323	0.323	0.323	0.339	0.347	0.347	0.347	0.347	0.347	0.347	0.347	0.347	0.347	0.356	0.356	0.356	0.347	0.347	0.347	0.347	0.323	0.323
Total composite emission factor (g/Veh/km)		0.0109	0.0164	0.0047	0.0281	0.0000	0.0145	0.1504	0.1774	0.2746	0.2767	0.2498	0.2422	0.2589	0.2565	0.2584	0.2563	0.2616	0.2592	0.2504	0.1100	0.1357	0.0816	0.0481	0.1239
Total composite emission factor (g/Veh/mile)		0.02	0.03	0.01	0.05	0.00	0.02	0.24	0.29	0.44	0.45	0.40	0.39	0.42	0.41	0.42	0.41	0.42	0.42	0.40	0.18	0.22	0.13	0.08	0.20

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: 2023

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	14	80	106	113	171	176	153	146	164	167	163	150	170	153	122	23	5	6
2	LGV3	1	3	4	1	2	5	8	8	20	24	44	43	40	38	43	41	43	43	40	50	15	4	3	
3	LGV4	1	1	1	3	2	6	5	8	10	11	38	37	35	34	38	38	38	36	35	38	9	4	0	
4	PLB	5	3	2	2	2	3	6	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	5	11	11	34	33	32	31	34	33	34	34	32	32	37	12	3	
6	HGV7	0	0	0	0	0	0	5	12	154	208	164	152	140	128	159	159	161	143	123	11	10	3	0	
7	HGV8	0	0	0	0	0	0	6	6	64	124	61	50	44	34	62	67	26	30	7	7	0	0	0	
8	FBDD	2	1	1	0	0	0	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	5	5	5	4	5	5	5	5	5	5	4	4	3	
10	TAXI	2	2	2	2	3	5	7	41	48	51	60	68	62	57	63	64	63	64	61	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	
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	
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	
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	
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	
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	7	
Total Flow (veh)		28	17	17	15	17	33	63	177	440	573	665	647	585	543	652	658	653	586	591	424	393	147	76	65

NO2 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	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	 0.00
PC	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
LGV3	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.057	0.058	0.058	0.059	0.049	0.049	0.049	0.050	0.048	0.059	0.059	0.059	0.058	0.058	0.043	0.043	0.043	0.043
LGV4	0.039	0.038	0.038	0.038	0.038	0.038	0.039	0.053	0.054	0.054	0.055	0.045	0.045	0.045	0.046	0.043	0.055	0.055	0.055	0.054	0.054	0.039	0.039	0.039	0.039
PLB	0.097	0.096	0.096	0.096	0.096	0.096	0.098	0.118	0.120	0.120	0.121	0.108	0.108	0.108	0.109	0.108	0.121	0.121	0.121	0.120	0.120	0.099	0.098	0.097	0.097
LGV6	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.399	0.405	0.405	0.412	0.359	0.359	0.359	0.364	0.350	0.412	0.412	0.412	0.405	0.405	0.325	0.325	0.325	0.325
HGV7	0.486	0.485	0.485	0.485	0.485	0.485	0.486	0.610	0.622	0.622	0.634	0.543	0.543	0.543	0.552	0.527	0.634	0.634	0.634	0.622	0.622	0.486	0.486	0.486	0.486
HGV8	0.256	0.253	0.253	0.253	0.253	0.253	0.260	0.349	0.357	0.357	0.365	0.302	0.302	0.302	0.308	0.292	0.365	0.365	0.365	0.357	0.357	0.264	0.260	0.256	0.256
FBDD	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.259	0.266	0.266	0.272	0.223	0.223	0.223	0.227	0.214	0.272	0.272	0.272	0.266	0.266	0.193	0.192	0.192	0.192
MC	0.014	0.014	0.014	0.014	0.014	0.014	0.016	0.016	0.016	0.016	0.015	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016	0.014	0.014	0.014	0.014	0.014
TAXI	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.008	0.008	0.008	0.008
PV4	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.132	0.133	0.133	0.135	0.124	0.124	0.124	0.125	0.123	0.135	0.135	0.135	0.133	0.133	0.119	0.119	0.119	0.119
PV5	0.195	0.193	0.193	0.193	0.193	0.193	0.198	0.242	0.245	0.245	0.249	0.220	0.220	0.220	0.223	0.215	0.249	0.249	0.249	0.245	0.245	0.200	0.198	0.195	0.195
NFB6	0.490	0.484	0.484	0.484	0.484	0.484	0.495	0.604	0.613	0.613	0.621	0.552	0.552	0.552	0.559	0.538	0.621	0.621	0.621	0.613	0.613	0.501	0.495	0.490	0.490
NFB7	0.634	0.627	0.627	0.627	0.627	0.627	0.641	0.783	0.793	0.793	0.804	0.714	0.714	0.714	0.724	0.697	0.804	0.804	0.804	0.793	0.793	0.648	0.641	0.634	0.634
NFB8	0.184	0.181	0.181	0.181	0.181	0.181	0.186	0.253	0.259	0.259	0.266	0.218	0.218	0.218	0.222	0.210	0.266	0.266	0.266	0.259	0.259	0.189	0.186	0.184	0.184
FBSD	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.331	0.339	0.339	0.347	0.285	0.285	0.285	0.291	0.274	0.347	0.347	0.347	0.339	0.339	0.247	0.246	0.246	0.246
Total composite emission factor (g/Veh/km)		0.2238	0.1486	0.1455	0.1918	0.1509	0.1262	0.1594	0.0958	0.3048	0.3340	0.2710	0.2198	0.2231	0.2190	0.2341	0.2228	0.2723	0.2599	0.2402	0.1401	0.1407	0.1727	0.2374	0.2519
Total composite emission factor (g/Veh/mile)		0.36	0.24	0.23	0.31	0.24	0.20	0.26	0.15	0.49	0.54	0.44	0.35	0.36	0.35	0.38	0.36	0.44	0.42	0.39	0.23	0.23	0.28	0.38	0.41

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: 2023

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	4	4	3	4	4	0	1	2	0	
3	LGV4	0	0	0	0	0	0	2	6	9	10	3	4	3	2	3	4	3	4	3	1	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	4	9	10	2	3	2	1	2	3	2	3	2	0	1	1	1	
6	HGV7	0	0	0	0	0	0	2	4	24	27	16	12	15	14	17	15	15	16	14	1	2	0	0	
7	HGV8	0	0	0	0	0	0	2	4	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	1	2	1	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	2	2	2	2	1	1	1	1	1	1	1	1	1	0	0	0	0	
14	NFB7	0	0	0	0	0	0	2	2	2	2	1	1	1	1	1	1	1	1	1	0	0	0	0	
15	NFB8	0	0	0	0	0	0	2	2	2	2	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	
Total Flow (veh)		5	2	2	2	0	3	21	58	120	131	58	50	53	49	56	56	56	54	54	22	12	5	10	4

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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
LGV3	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	
LGV4	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	
PLB	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	
LGV6	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	
HGV7	0.520	0.520	0.520	0.520	0.520	0.520	0.520	0.520	0.520	0.520	0.520	0.520	0.520	0.520	0.520	0.520	0.520	0.520	0.520	0.520	0.520	0.520	0.520	0.520	
HGV8	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	
FBDD	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	
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	0.008	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	
PV4	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	
PV5	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	
NFB6	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	
NFB7	0.688	0.688	0.688	0.688	0.688	0.688	0.688	0.688	0.688	0.688	0.688	0.688	0.688	0.688	0.688	0.688	0.688	0.688	0.688	0.688	0.688	0.688	0.688	0.688	
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	0.269	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	
Total composite emission factor (g/Veh/km)		0.0115	0.0238	0.0044	0.0238	0.0000	0.0161	0.1219	0.1537	0.2203	0.2234	0.2651	0.2507	0.2747	0.2720	0.2880	0.2671	0.2671	0.2837	0.2620	0.0838	0.1402	0.0888	0.0508	0.1079
Total composite emission factor (g/Veh/mile)		0.02	0.04	0.01	0.04	0.00	0.03	0.20	0.25	0.36	0.36	0.43	0.40	0.44	0.44	0.46	0.43	0.43	0.46	0.42	0.14	0.23	0.14	0.08	0.17

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: 2023

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	14	15	13	8	3	2	0	
2	LGV3	0	0	0	0	0	0	2	3	5	6	8	7	6	6	8	7	8	8	6	3	2	0		
3	LGV4	0	0	0	0	0	0	2	1	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		
5	LGV6	0	0	0	0	0	0	2	1	5	7	5	5	5	6	5	5	6	5	3	1	0	0		
6	HGV7	0	0	0	0	0	0	1	2	14	15	5	5	4	4	4	5	5	4	5	2	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	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	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		
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	1	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	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		
Total Flow (veh)		2	2	0	0	0	1	13	18	59	63	60	53	49	48	56	53	53	56	42	23	9	3	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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		
LGV3	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		
LGV4	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		
PLB	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		
LGV6	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		
HGV7	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527		
HGV8	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292		
FBDD	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214		
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		
TAXI	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		
PV4	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		
PV5	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215		
NFB6	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538		
NFB7	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697		
NFB8	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		
FBSD	0.274	0.274	0.274	0.274	0.274	0.274	0.274	0.274	0.274	0.274	0.274	0.274	0.274	0.274	0.274	0.274	0.274	0.274	0.274	0.274	0.274	0.274	0.274		
Total composite emission factor (g/Veh/km)		0.0045	0.0045	0.0000	0.0000	0.0000	0.0008	0.1323	0.1224	0.2327	0.2317	0.1461	0.1495	0.1440	0.1469	0.1349	0.1495	0.1495	0.1349	0.1444	0.0946	0.0964	0.0564	0.0032	0.0000
Total composite emission factor (g/Veh/mile)		0.01	0.01	0.00	0.00	0.00	0.00	0.21	0.20	0.38	0.37	0.24	0.24	0.23	0.24	0.22	0.24	0.24	0.22	0.23	0.15	0.16	0.09	0.01	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: 2023

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	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	74	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
Total Flow (veh)		0	0	0	0	0	0	0	0	137	288	270	250	242	216	262	256	280	246	87	0	0	0	0	0

NO2 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
PC	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
LGV3	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
LGV4	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132
PLB	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234
LGV6	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837
HGV7	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335
HGV8	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961
FBDD	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738
MC	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
TAXI	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
PV4	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
PV5	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507
NFB6	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256
NFB7	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
NFB8	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729
FBSD	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0179	1.0177	1.0160	1.0174	1.0162	1.0160	1.0177	1.0161	1.0167	1.0183	1.0164	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	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: 2023

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	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	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	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	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	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	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	2	2
8	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	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	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	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	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	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	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	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	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	0
Total Flow (veh)		0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	0	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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
LGV3	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	0.135
LGV4	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132
PLB	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234
LGV6	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837
HGV7	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335
HGV8	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961
FBSD	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738
MC	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	0.021
TAXI	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
PV4	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	0.203
PV5	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507	0.507
NFB6	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256
NFB7	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	1.627
NFB8	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729
FBSD	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931	0.931
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.9605	0.9605	0.9605	0.9605	0.9605	0.9605	0.9605	0.9605	0.9605	0.9605	0.9605	0.9605	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	0.00	0.00	0.00	0.00

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

0414816 TMFB

Pollutant Name: NO (g/veh/km)

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	0.027	1.495	1.507	1.423	2.153	3.073	7.173	8.938	9.697	0.405	0.473	0.874	1.493	3.231	4.392	7.732	8.603
17	0.021	1.081	1.087	1.093	1.567	2.228	4.639	5.687	6.220	0.367	0.408	0.749	1.151	2.515	3.420	4.908	5.543
18	0.021	1.042	1.046	1.058	1.514	2.151	4.429	5.417	5.930	0.363	0.401	0.734	1.111	2.428	3.301	4.676	5.287
27	0.017	0.786	0.774	0.827	1.191	1.668	3.197	3.834	4.228	0.326	0.358	0.628	0.834	1.818	2.471	3.327	3.784
28	0.017	0.764	0.751	0.809	1.166	1.630	3.106	3.717	4.102	0.323	0.354	0.619	0.812	1.769	2.405	3.228	3.673
29	0.017	0.744	0.729	0.792	1.142	1.594	3.020	3.608	3.964	0.320	0.351	0.611	0.792	1.724	2.344	3.135	3.568
30	0.017	0.725	0.708	0.776	1.120	1.559	2.940	3.505	3.873	0.316	0.347	0.602	0.773	1.683	2.288	3.048	3.470
31	0.016	0.690	0.665	0.760	1.099	1.519	2.865	3.408	3.769	0.313	0.344	0.594	0.754	1.641	2.231	2.967	3.378
32	0.016	0.673	0.647	0.749	1.079	1.488	2.794	3.317	3.671	0.310	0.341	0.587	0.744	1.618	2.200	2.890	3.291
33	0.016	0.657	0.630	0.739	1.060	1.459	2.727	3.232	3.578	0.308	0.338	0.580	0.733	1.597	2.171	2.818	3.209
34	0.016	0.642	0.614	0.728	1.042	1.431	2.663	3.150	3.490	0.305	0.335	0.574	0.723	1.575	2.142	2.749	3.131
35	0.015	0.628	0.599	0.719	1.025	1.405	2.603	3.074	3.407	0.302	0.333	0.567	0.713	1.554	2.113	2.685	3.057
36	0.015	0.615	0.585	0.709	1.009	1.380	2.547	3.001	3.328	0.300	0.330	0.561	0.703	1.534	2.085	2.623	2.987
37	0.015	0.602	0.572	0.700	0.993	1.356	2.492	2.931	3.253	0.297	0.327	0.556	0.694	1.513	2.058	2.565	2.921
38	0.015	0.590	0.559	0.691	0.978	1.333	2.441	2.865	3.182	0.295	0.325	0.551	0.684	1.494	2.031	2.510	2.858
39	0.015	0.579	0.547	0.682	0.964	1.311	2.392	2.803	3.114	0.292	0.323	0.546	0.675	1.474	2.004	2.457	2.797
40	0.014	0.568	0.535	0.674	0.950	1.290	2.345	2.743	3.049	0.290	0.320	0.541	0.666	1.455	1.978	2.407	2.740
41	0.014	0.558	0.524	0.666	0.937	1.270	2.300	2.686	2.987	0.288	0.318	0.537	0.658	1.437	1.953	2.359	2.685
42	0.014	0.548	0.514	0.658	0.924	1.251	2.258	2.631	2.928	0.286	0.316	0.533	0.649	1.418	1.928	2.313	2.633
43	0.014	0.538	0.504	0.650	0.912	1.232	2.217	2.579	2.872	0.284	0.314	0.530	0.641	1.401	1.904	2.269	2.582
44	0.014	0.530	0.495	0.643	0.900	1.214	2.178	2.529	2.817	0.282	0.312	0.527	0.633	1.383	1.881	2.228	2.534
45	0.014	0.521	0.486	0.636	0.889	1.197	2.140	2.481	2.765	0.281	0.310	0.524	0.625	1.366	1.858	2.187	2.488
50	0.013	0.483	0.446	0.603	0.838	1.120	1.973	2.268	2.534	0.273	0.301	0.513	0.589	1.288	1.750	2.010	2.282
51	0.013	0.481	0.443	0.597	0.837	1.119	1.943	2.230	2.529	0.271	0.299	0.512	0.582	1.273	1.731	1.978	2.278
52	0.013	0.478	0.440	0.591	0.836	1.118	1.914	2.193	2.525	0.270	0.297	0.511	0.576	1.259	1.711	1.947	2.273
53	0.013	0.476	0.437	0.585	0.835	1.117	1.886	2.158	2.520	0.269	0.296	0.511	0.569	1.245	1.693	1.918	2.269
54	0.012	0.475	0.434	0.579	0.834	1.116	1.860	2.124	2.516	0.268	0.294	0.510	0.563	1.232	1.675	1.890	2.265

EMFAC-HK Model (v 3.4) Key Assumptions:

Mode: EMFAC

Calendar Year 2023

Temperature and relative humidity 24 degree C, 77% (2017 average at Tuen Mun Weather Station)

Vehicle Population (external roads) Default

Vehicle Population (internal roads All HGV8 (year 2019) are of Euro V standard

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: 2023

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	34	121	176	189	253	245	220	211	240	235	232	225	248	220	167	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	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	11	12	10	8	7	6
5	LGV6	4	2	2	3	2	7	11	17	36	38	57	53	50	48	54	53	53	54	55	50	51	20	10	6
6	HGV7	0	0	0	0	0	0	11	26	296	376	292	267	251	234	281	277	280	262	225	22	17	4	0	0
7	HGV8	0	0	0	0	0	0	26	61	689	875	679	624	587	545	656	646	653	611	524	52	38	10	0	0
8	FBDD	2	1	1	0	0	0	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6	6
9	MC	0	0	0	0	0	0	1	1	1	6	6	6	6	6	6	6	6	6	6	6	5	4	4	4
10	TAXI	9	5	6	4	5	7	16	66	90	98	100	103	83	89	101	99	98	101	104	93	77	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
Total Flow (veh)		61	33	30	24	24	47	139	360	1415	1714	1619	1516	1407	1324	1559	1534	1537	1480	1391	643	541	226	139	98

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	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.015	0.017	0.017	0.015	0.014	0.014	0.014	0.014	0.014	0.016	0.017	0.016	0.014	0.014	0.013	0.013	0.013	0.013
LGV3	0.478	0.476	0.476	0.476	0.476	0.476	0.481	0.628	0.764	0.786	0.628	0.558	0.548	0.530	0.558	0.558	0.642	0.744	0.690	0.568	0.568	0.483	0.481	0.478	0.478
LGV4	0.440	0.437	0.437	0.437	0.437	0.437	0.443	0.599	0.751	0.774	0.599	0.524	0.514	0.495	0.524	0.524	0.614	0.729	0.665	0.535	0.535	0.446	0.443	0.440	0.440
PLB	0.591	0.585	0.585	0.585	0.585	0.585	0.597	0.719	0.809	0.827	0.719	0.666	0.658	0.643	0.666	0.666	0.728	0.792	0.760	0.674	0.674	0.603	0.597	0.591	0.591
LGV6	0.836	0.835	0.835	0.835	0.835	0.835	0.837	1.025	1.166	1.191	1.025	0.937	0.924	0.900	0.937	0.937	1.042	1.142	1.099	0.950	0.950	0.838	0.837	0.836	0.836
HGV7	1.118	1.117	1.117	1.117	1.117	1.117	1.119	1.405	1.630	1.668	1.405	1.270	1.251	1.214	1.270	1.270	1.431	1.594	1.519	1.290	1.290	1.120	1.119	1.118	1.118
HGV8	1.914	1.886	1.886	1.886	1.886	1.886	1.943	2.603	3.106	3.197	2.603	2.300	2.258	2.178	2.300	2.300	2.663	3.020	2.865	2.345	2.345	1.973	1.943	1.914	1.914
FBDD	2.525	2.520	2.520	2.520	2.520	2.520	2.529	3.407	4.102	4.228	3.407	2.987	2.928	2.817	2.987	2.987	3.490	3.984	3.769	3.049	3.049	2.534	2.529	2.525	2.525
MC	0.270	0.269	0.269	0.269	0.269	0.269	0.271	0.302	0.323	0.328	0.302	0.288	0.286	0.282	0.288	0.288	0.305	0.320	0.313	0.290	0.290	0.273	0.271	0.270	0.270
TAXI	0.297	0.296	0.296	0.296	0.296	0.296	0.299	0.333	0.354	0.358	0.333	0.318	0.316	0.312	0.318	0.318	0.335	0.351	0.344	0.320	0.320	0.301	0.299	0.297	0.297
PV4	0.511	0.511	0.511	0.511	0.511	0.511	0.512	0.567	0.619	0.628	0.567	0.537	0.533	0.527	0.537	0.537	0.574	0.611	0.594	0.541	0.541	0.513	0.512	0.511	0.511
PV5	0.576	0.569	0.569	0.569	0.569	0.569	0.582	0.713	0.812	0.834	0.713	0.658	0.649	0.633	0.658	0.658	0.723	0.792	0.754	0.666	0.666	0.589	0.582	0.576	0.576
NFB6	1.259	1.245	1.245	1.245	1.245	1.245	1.273	1.554	1.769	1.818	1.554	1.437	1.418	1.383	1.437	1.437	1.575	1.724	1.641	1.455	1.455	1.288	1.273	1.259	1.259
NFB7	1.711	1.693	1.693	1.693	1.693	1.693	1.731	2.113	2.405	2.471	2.113	1.953	1.928	1.881	1.953	1.953	2.142	2.344	2.231	1.978	1.978	1.750	1.731	1.711	1.711
NFB8	1.947	1.918	1.918	1.918	1.918	1.918	1.978	2.685	3.228	3.327	2.685	2.359	2.313	2.228	2.359	2.359	2.749	3.135	2.967	2.407	2.407	2.010	1.978	1.947	1.947
FBSD	2.273	2.269	2.269	2.269	2.269	2.269	2.278	3.057	3.673	3.784	3.057	2.685	2.633	2.534	2.685	2.685	3.131	3.568	3.378	2.740	2.740	2.282	2.278	2.273	2.273
Total composite emission factor (g/Veh/km)		0.6884	0.5437	0.5872	0.6160	0.5759	0.4942	0.8033	0.8498	2.0140	2.1466	1.5776	1.3831	1.3712	1.3149	1.4061	1.4072	1.6267	1.8083	1.6157	0.6996	0.6986	0.7446	0.7996	0.9727
Total composite emission factor (g/Veh/mile)		1.11	0.88	0.95	0.99	0.93	0.80	1.30	1.37	3.25	3.46	2.54	2.23	2.21	2.12	2.27	2.27	2.62	2.92	2.61	1.13	1.13	1.20	1.29	1.57

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: 2023

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	5		
2	LGV3	3	1	1	1	1	1	3	5	5	5	5	4	4	5	5	5	5	5	4	4	3	3		
3	LGV4	2	1	1	0	0	0	1	0	3	3	4	3	3	3	3	3	3	4	3	3	3	2		
4	PLB	2	1	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	0	2	74	3	4	3	3	3	3	3	4	3	3	3	2		
6	HGV7	0	0	0	0	0	0	2	2	18	416	67	62	58	56	63	62	61	63	65	2	1	0		
7	HGV8	0	0	0	0	0	0	6	18	416	378	351	327	315	359	351	344	359	373	13	6	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	2	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		
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		
Total Flow (veh)		13	7	6	3	3	3	15	32	513	549	480	440	411	397	453	440	432	453	473	41	28	24	17	13

NO 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	0.021	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
LGV3	1.042	1.042	1.042	1.042	1.042	1.042	1.042	1.042	1.081	1.081	1.081	1.081	1.081	1.081	1.081	1.081	1.081	1.081	1.081	1.042	1.042	1.042	1.042	1.042	
LGV4	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.087	1.087	1.087	1.087	1.087	1.087	1.087	1.087	1.087	1.087	1.087	1.087	1.046	1.046	1.046	1.046	1.046	
PLB	1.058	1.058	1.058	1.058	1.058	1.058	1.058	1.093	1.093	1.093	1.093	1.093	1.093	1.093	1.093	1.093	1.093	1.093	1.093	1.058	1.058	1.058	1.058	1.058	
LGV6	1.514	1.514	1.514	1.514	1.514	1.514	1.514	1.587	1.587	1.587	1.587	1.587	1.587	1.587	1.587	1.587	1.587	1.587	1.587	1.514	1.514	1.514	1.514	1.514	
HGV7	2.151	2.151	2.151	2.151	2.151	2.151	2.151	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.151	2.151	2.151	2.151	2.151	
HGV8	4.429	4.429	4.429	4.429	4.429	4.429	4.429	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.639	4.429	4.429	4.429	4.429	4.429	
FBDD	5.930	5.930	5.930	5.930	5.930	5.930	5.930	6.220	6.220	6.220	6.220	6.220	6.220	6.220	6.220	6.220	6.220	6.220	6.220	5.930	5.930	5.930	5.930	5.930	
MC	0.363	0.363	0.363	0.363	0.363	0.363	0.363	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.363	0.363	0.363	0.363	0.363	
TAXI	0.401	0.401	0.401	0.401	0.401	0.401	0.401	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.401	0.401	0.401	0.401	0.401	
PV4	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.734	0.734	0.734	0.734	0.734	
PV5	1.111	1.111	1.111	1.111	1.111	1.111	1.111	1.151	1.151	1.151	1.151	1.151	1.151	1.151	1.151	1.151	1.151	1.151	1.151	1.111	1.111	1.111	1.111	1.111	
NFB6	2.428	2.428	2.428	2.428	2.428	2.428	2.428	2.515	2.515	2.515	2.515	2.515	2.515	2.515	2.515	2.515	2.515	2.515	2.515	2.428	2.428	2.428	2.428	2.428	
NFB7	3.301	3.301	3.301	3.301	3.301	3.301	3.301	3.420	3.420	3.420	3.420	3.420	3.420	3.420	3.420	3.420	3.420	3.420	3.420	3.301	3.301	3.301	3.301	3.301	
NFB8	4.676	4.676	4.676	4.676	4.676	4.676	4.676	4.908	4.908	4.908	4.908	4.908	4.908	4.908	4.908	4.908	4.908	4.908	4.908	4.676	4.676	4.676	4.676	4.676	
FBSD	5.287	5.287	5.287	5.287	5.287	5.287	5.287	5.543	5.543	5.543	5.543	5.543	5.543	5.543	5.543	5.543	5.543	5.543	5.543	5.287	5.287	5.287	5.287	5.287	
Total composite emission factor (g/Veh/km)		0.7024	0.5808	0.6741	0.4879	0.4879	0.4879	2.3293	2.8462	4.1128	4.1176	4.0026	4.0484	4.0389	4.0298	4.0210	4.0484	4.0430	4.0210	4.0034	1.8340	1.4707	1.6698	0.6678	0.6731
Total composite emission factor (g/Veh/mile)		1.13	0.94	1.09	0.79	0.79	0.79	3.76	4.59	6.63	6.64	6.46	6.53	6.51	6.50	6.49	6.53	6.52	6.49	6.46	2.96	2.37	2.69	1.08	1.09

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: 2023

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	31	116	168	181	236	207	198	225	222	219	210	231	207	157	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	17	33	35	58	55	51	49	56	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	7	6	
5	LGV8	2	1	1	3	2	7	10	15	33	35	53	50	47	45	51	50	51	51	47	48	17	7	4	
6	HGV7	0	0	0	0	0	0	9	24	222	297	225	205	193	178	218	215	199	160	20	16	3	0	0	
7	HGV8	0	0	0	0	0	0	20	43	273	429	301	273	260	230	297	295	309	252	151	39	32	4	0	
8	FBDD	2	1	1	0	0	0	2	2	4	4	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	6	5	4	4	
10	TAXI	7	4	5	3	4	6	15	64	86	93	95	100	90	86	96	96	95	96	99	90	76	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
Total Flow (veh)		48	26	24	21	21	44	124	328	902	1165	1139	1076	996	927	1106	1094	1105	1027	918	602	513	202	122	85

NO 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	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.015	0.015	0.015	0.015	0.014	0.014	0.014	0.014	0.014	0.016	0.017	0.016	0.014	0.014	0.013	0.013	0.013
LGV3	0.478	0.476	0.476	0.476	0.476	0.476	0.481	0.602	0.628	0.628	0.628	0.530	0.530	0.538	0.558	0.558	0.642	0.744	0.690	0.558	0.530	0.483	0.481	0.478
LGV4	0.440	0.437	0.437	0.437	0.437	0.437	0.443	0.572	0.599	0.599	0.599	0.495	0.495	0.504	0.524	0.524	0.614	0.729	0.665	0.524	0.495	0.446	0.443	0.440
PLB	0.591	0.585	0.585	0.585	0.585	0.585	0.597	0.700	0.719	0.719	0.719	0.643	0.643	0.650	0.666	0.666	0.728	0.792	0.760	0.666	0.643	0.603	0.597	0.591
LGV8	0.836	0.835	0.835	0.835	0.835	0.835	0.837	0.993	1.025	1.025	1.025	0.900	0.900	0.912	0.937	0.937	1.042	1.142	1.099	0.937	0.900	0.858	0.857	0.856
HGV7	1.118	1.117	1.117	1.117	1.117	1.117	1.119	1.356	1.405	1.405	1.405	1.214	1.214	1.232	1.270	1.270	1.431	1.594	1.519	1.270	1.214	1.120	1.119	1.118
HGV8	1.914	1.886	1.886	1.886	1.886	1.886	1.943	2.492	2.603	2.603	2.603	2.178	2.178	2.217	2.300	2.300	2.663	3.020	2.865	2.300	2.178	1.973	1.943	1.914
FBDD	2.525	2.520	2.520	2.520	2.520	2.520	2.529	3.253	3.407	3.407	3.407	2.817	2.817	2.872	2.987	2.987	3.490	3.984	3.769	2.987	2.817	2.534	2.529	2.525
MC	0.270	0.269	0.269	0.269	0.269	0.269	0.271	0.297	0.302	0.302	0.302	0.282	0.282	0.284	0.288	0.288	0.305	0.320	0.313	0.288	0.282	0.273	0.271	0.270
TAXI	0.297	0.296	0.296	0.296	0.296	0.296	0.299	0.327	0.333	0.333	0.333	0.312	0.312	0.314	0.318	0.318	0.335	0.351	0.344	0.318	0.312	0.301	0.299	0.297
PV4	0.511	0.511	0.511	0.511	0.511	0.511	0.512	0.556	0.567	0.567	0.567	0.527	0.527	0.530	0.537	0.537	0.574	0.611	0.594	0.537	0.527	0.513	0.512	0.511
PV5	0.576	0.569	0.569	0.569	0.569	0.569	0.582	0.694	0.713	0.713	0.713	0.633	0.633	0.641	0.658	0.658	0.723	0.792	0.754	0.658	0.633	0.589	0.582	0.576
NFB6	1.259	1.245	1.245	1.245	1.245	1.245	1.273	1.513	1.554	1.554	1.554	1.383	1.383	1.401	1.437	1.437	1.575	1.724	1.641	1.437	1.383	1.288	1.273	1.259
NFB7	1.711	1.693	1.693	1.693	1.693	1.693	1.731	2.058	2.113	2.113	2.113	1.881	1.881	1.904	1.953	1.953	2.142	2.344	2.231	1.953	1.881	1.750	1.731	1.711
NFB8	1.947	1.918	1.918	1.918	1.918	1.918	1.978	2.565	2.685	2.685	2.685	2.228	2.228	2.269	2.359	2.359	2.749	3.135	2.967	2.359	2.228	2.010	1.978	1.947
FBSD	2.273	2.269	2.269	2.269	2.269	2.269	2.278	2.921	3.057	3.057	3.057	2.534	2.534	2.582	2.685	2.685	3.131	3.568	3.378	2.685	2.534	2.282	2.278	2.273

Total composite emission factor (g/Veh/km)	0.7783	0.6100	0.6478	0.6666	0.6208	0.5100	0.7714	0.7381	1.3396	1.4914	1.2857	1.0625	1.0790	1.0742	1.1549	1.1555	1.3460	1.4414	1.1629	0.6680	0.6495	0.7408	0.8646	1.0703
Total composite emission factor (g/Veh/mile)	1.26	0.98	1.04	1.08	1.00	0.82	1.24	1.19	2.16	2.41	2.07	1.71	1.74	1.73	1.86	1.86	2.17	2.32	1.88	1.08	1.05	1.19	1.39	1.73

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

District: Tuen Mun Fill Bank
 Road Section TMS_Lung Mun Road
 Year: 2023

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	30	114	165	178	225	222	198	190	215	212	209	200	221	198	149	38	19	9
2	LGV3	2	4	4	2	2	7	16	25	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	17	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	9	23	205	265	195	177	167	154	190	187	189	173	152	19	16	3	0	0
7	HGV8	0	0	0	0	0	0	17	37	182	253	137	119	112	98	137	139	137	100	103	33	29	3	0	0
8	FBDD	2	1	1	0	0	0	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6	6
9	MC	0	0	0	0	0	0	0	1	1	6	6	6	6	5	6	6	6	6	6	6	5	4	4	4
10	TAXI	5	4	5	3	4	6	15	62	84	91	88	94	85	81	90	89	90	92	85	71	29	10	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	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
Total Flow (veh)		40	25	23	21	21	44	120	315	785	948	913	868	798	748	692	884	877	823	831	571	487	181	102	71

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	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.015	0.016	0.016	0.016	0.014	0.014	0.014	0.014	0.014	0.016	0.016	0.016	0.016	0.016	0.016	0.013	0.013	0.013
LGV3	0.478	0.476	0.476	0.476	0.476	0.476	0.481	0.628	0.642	0.642	0.657	0.548	0.548	0.548	0.558	0.530	0.657	0.657	0.657	0.642	0.642	0.483	0.481	0.478	
LGV4	0.440	0.437	0.437	0.437	0.437	0.437	0.443	0.599	0.614	0.614	0.630	0.514	0.514	0.514	0.524	0.495	0.630	0.630	0.630	0.614	0.614	0.446	0.443	0.440	
PLB	0.591	0.585	0.585	0.585	0.585	0.585	0.597	0.719	0.728	0.728	0.739	0.658	0.658	0.658	0.666	0.643	0.739	0.739	0.739	0.728	0.728	0.603	0.597	0.591	
LGV6	0.836	0.835	0.835	0.835	0.835	0.837	1.025	1.042	1.042	1.060	0.924	0.924	0.924	0.937	0.900	1.060	1.060	1.060	1.042	1.042	0.838	0.837	0.836		
HGV7	1.118	1.117	1.117	1.117	1.117	1.119	1.405	1.431	1.431	1.459	1.251	1.251	1.251	1.270	1.214	1.459	1.459	1.459	1.431	1.431	1.120	1.119	1.118		
HGV8	1.914	1.886	1.886	1.886	1.886	1.886	1.943	2.603	2.663	2.663	2.727	2.258	2.258	2.258	2.300	2.178	2.727	2.727	2.727	2.663	2.663	1.973	1.943	1.914	
FBDD	2.525	2.520	2.520	2.520	2.520	2.520	2.529	3.407	3.490	3.490	3.578	2.928	2.928	2.928	2.987	2.817	3.578	3.578	3.578	3.490	3.490	2.534	2.529	2.525	
MC	0.270	0.269	0.269	0.269	0.269	0.271	0.302	0.305	0.305	0.308	0.286	0.286	0.286	0.286	0.282	0.308	0.308	0.308	0.305	0.305	0.273	0.271	0.270		
TAXI	0.297	0.296	0.296	0.296	0.296	0.299	0.333	0.335	0.335	0.338	0.316	0.316	0.316	0.316	0.312	0.338	0.338	0.338	0.335	0.335	0.301	0.299	0.297		
PV4	0.511	0.511	0.511	0.511	0.511	0.512	0.567	0.574	0.574	0.580	0.533	0.533	0.533	0.537	0.527	0.580	0.580	0.580	0.574	0.574	0.513	0.512	0.511		
PV5	0.576	0.569	0.569	0.569	0.569	0.569	0.582	0.713	0.723	0.723	0.733	0.649	0.649	0.649	0.658	0.633	0.733	0.733	0.733	0.723	0.723	0.589	0.582	0.576	
NFB6	1.259	1.245	1.245	1.245	1.245	1.245	1.273	1.554	1.575	1.575	1.597	1.418	1.418	1.418	1.437	1.383	1.597	1.597	1.597	1.575	1.575	1.288	1.273	1.259	
NFB7	1.711	1.693	1.693	1.693	1.693	1.693	1.731	2.113	2.142	2.142	2.171	1.928	1.928	1.928	1.953	1.881	2.171	2.171	2.171	2.142	2.142	1.750	1.731	1.711	
NFB8	1.947	1.918	1.918	1.918	1.918	1.918	1.978	2.685	2.749	2.749	2.818	2.313	2.313	2.313	2.359	2.228	2.818	2.818	2.818	2.749	2.749	2.010	1.978	1.947	
FBSD	2.273	2.269	2.269	2.269	2.269	2.269	2.278	3.057	3.131	3.131	3.209	2.633	2.633	2.633	2.685	2.534	3.209	3.209	3.209	3.131	3.131	2.282	2.278	2.273	
Total composite emission factor (g/Veh/km)		0.8627	0.6339	0.6754	0.6666	0.6208	0.5100	0.7485	0.7371	1.2275	1.3255	1.1214	0.9108	0.9224	0.9042	0.9698	0.9275	1.1372	1.0702	1.0417	0.7530	0.7796	0.7768	0.9652	1.2185
Total composite emission factor (g/Veh/mile)		1.39	1.02	1.09	1.08	1.00	0.82	1.21	1.19	1.98	2.14	1.81	1.47	1.49	1.46	1.56	1.50	1.83	1.73	1.68	1.21	1.26	1.25	1.56	1.97

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: 2023

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	2	5	11	13	9	7	7	9	7	9	7	9	7	2	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	1	3	6	7	5	4	4	5	4	5	4	5	4	2	0	0	0	
7	HGV8	0	0	0	0	0	0	3	20	37	40	28	25	24	23	28	25	24	28	28	20	8	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	0	0	0	0	0	0	2	4	8	10	6	4	4	6	4	4	6	4	6	6	4	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	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	
Total Flow (veh)		0	0	0	0	0	0	8	32	67	75	49	41	40	39	49	41	40	49	49	35	13	1	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	0.015	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	
LGV3	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	
LGV4	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	
PLB	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	
LGV6	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	
HGV7	1.311	1.311	1.311	1.311	1.311	1.311	1.311	1.311	1.311	1.311	1.311	1.311	1.311	1.311	1.311	1.311	1.311	1.311	1.311	1.311	1.311	1.311	1.311	1.311	
HGV8	2.392	2.392	2.392	2.392	2.392	2.392	2.392	2.392	2.392	2.392	2.392	2.392	2.392	2.392	2.392	2.392	2.392	2.392	2.392	2.392	2.392	2.392	2.392	2.392	
FBDD	3.114	3.114	3.114	3.114	3.114	3.114	3.114	3.114	3.114	3.114	3.114	3.114	3.114	3.114	3.114	3.114	3.114	3.114	3.114	3.114	3.114	3.114	3.114	3.114	
MC	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	
TAXI	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	
PV4	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	
PV5	0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675	
NFB6	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	
NFB7	2.004	2.004	2.004	2.004	2.004	2.004	2.004	2.004	2.004	2.004	2.004	2.004	2.004	2.004	2.004	2.004	2.004	2.004	2.004	2.004	2.004	2.004	2.004	2.004	
NFB8	2.457	2.457	2.457	2.457	2.457	2.457	2.457	2.457	2.457	2.457	2.457	2.457	2.457	2.457	2.457	2.457	2.457	2.457	2.457	2.457	2.457	2.457	2.457	2.457	
FBSD	2.797	2.797	2.797	2.797	2.797	2.797	2.797	2.797	2.797	2.797	2.797	2.797	2.797	2.797	2.797	2.797	2.797	2.797	2.797	2.797	2.797	2.797	2.797	2.797	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.1451	1.6604	1.5307	1.4896	1.5545	1.6344	1.6155	1.5956	1.5545	1.6344	1.6155	1.5545	1.5545	1.5355	1.7007	2.3918	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	1.85	2.68	2.47	2.40	2.51	2.64	2.61	2.57	2.51	2.64	2.61	2.51	2.51	2.48	2.74	3.86	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: 2023

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	1	1	0	1	1	1	0	1	1	1	1	1	1	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	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	1	2	5	5	2	3	2	2	3	2	2	2	2	1	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	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	
Total Flow (veh)		0	0	0	0	0	0	1	2	11	12	5	5	4	5	5	4	5	4	5	4	5	4	0	

NO 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	0.014	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
LGV3	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	
LGV4	0.504	0.504	0.504	0.504	0.504	0.504	0.504	0.504	0.504	0.504	0.504	0.504	0.504	0.504	0.504	0.504	0.504	0.504	0.504	0.504	0.504	0.504	0.504	0.504	
PLB	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	
LGV6	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	
HGV7	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	
HGV8	2.217	2.217	2.217	2.217	2.217	2.217	2.217	2.217	2.217	2.217	2.217	2.217	2.217	2.217	2.217	2.217	2.217	2.217	2.217	2.217	2.217	2.217	2.217	2.217	
FBDD	2.872	2.872	2.872	2.872	2.872	2.872	2.872	2.872	2.872	2.872	2.872	2.872	2.872	2.872	2.872	2.872	2.872	2.872	2.872	2.872	2.872	2.872	2.872	2.872	
MC	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	
TAXI	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	
PV4	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	
PV5	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	
NFB6	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	
NFB7	1.904	1.904	1.904	1.904	1.904	1.904	1.904	1.904	1.904	1.904	1.904	1.904	1.904	1.904	1.904	1.904	1.904	1.904	1.904	1.904	1.904	1.904	1.904	1.904	
NFB8	2.269	2.269	2.269	2.269	2.269	2.269	2.269	2.269	2.269	2.269	2.269	2.269	2.269	2.269	2.269	2.269	2.269	2.269	2.269	2.269	2.269	2.269	2.269	2.269	
FBSD	2.582	2.582	2.582	2.582	2.582	2.582	2.582	2.582	2.582	2.582	2.582	2.582	2.582	2.582	2.582	2.582	2.582	2.582	2.582	2.582	2.582	2.582	2.582	2.582	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.2167	2.2167	1.2232	1.1535	0.9999	1.3956	1.2464	1.0599	0.9999	1.7410	1.0599	1.2464	0.9999	0.7707	2.2167	1.1153	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	3.58	3.58	1.97	1.86	1.61	2.25	2.01	1.71	1.61	2.81	1.71	2.01	1.61	1.24	3.58	1.80	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: 2023

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	2	5	13	16	11	8	8	11	7	8	10	11	8	2	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		
4	PLB	0	0	0	0	0	0	0	0	4	4	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		
6	HGV7	0	0	0	0	0	0	1	3	6	7	5	4	4	5	4	5	4	5	3	2	0	0		
7	HGV8	0	0	0	0	0	0	4	20	42	45	30	28	26	25	30	28	26	30	16	9	2	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	2	4	8	10	6	5	4	5	6	5	6	6	5	1	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		
Total Flow (veh)		0	0	0	0	0	9	32	78	87	54	46	44	44	54	45	45	53	54	34	14	3	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	0.015	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	
LGV3	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	
LGV4	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	
PLB	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	
LGV6	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	
HGV7	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	
HGV8	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	
FBDD	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	
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	
TAXI	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	
PV4	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	
PV5	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	
NFB6	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	
NFB7	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	
NFB8	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	
FBSD	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	1.3085	1.6934	1.5301	1.4837	1.5405	1.6524	1.6226	1.5745	1.5405	1.6888	1.5937	1.5692	1.5405	1.3523	1.7849	1.6322	0.0000	
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	2.11	2.73	2.47	2.39	2.48	2.67	2.62	2.54	2.48	2.72	2.57	2.53	2.48	2.18	2.88	2.63	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: 2023

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	2	5	13	16	11	8	8	11	7	8	10	11	8	2	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	
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	7	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	1	3	6	7	5	4	4	5	4	4	5	4	5	5	3	2	0	
7	HGV8	0	0	0	0	0	0	4	20	42	45	30	28	25	30	28	26	30	30	16	9	2	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	2	4	8	10	6	5	4	5	6	5	5	6	6	5	1	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	
Total Flow (veh)		0	0	0	0	0	9	32	78	87	54	46	44	44	54	45	45	53	54	34	14	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	0.015	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	
LGV3	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	
LGV4	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	
PLB	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	0.691	
LGV6	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	0.978	
HGV7	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	
HGV8	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	2.441	
FBDD	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	3.182	
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	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	
PV4	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	
PV5	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	
NFB6	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	1.494	
NFB7	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	
NFB8	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	2.510	
FBSD	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	2.858	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.3085	1.6934	1.5301	1.4837	1.5405	1.6524	1.6226	1.5745	1.5405	1.6888	1.5937	1.5692	1.5405	1.3523	1.7849	1.6322	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	2.11	2.73	2.47	2.39	2.48	2.67	2.62	2.54	2.48	2.72	2.57	2.53	2.48	2.18	2.88	2.63	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: 2023

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	24	100	138	147	197	199	175	168	188	190	186	174	194	175	135	27	11	7
2	LGV3	2	4	4	2	2	6	13	20	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	15	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	12	25	26	43	41	39	37	42	41	42	42	41	39	40	14	4	2
6	HGV7	0	0	0	0	0	0	8	18	192	250	185	169	159	146	180	179	181	163	142	14	13	3	0	0
7	HGV8	0	0	0	0	0	0	9	12	102	166	82	67	63	52	83	87	87	46	49	10	10	0	0	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	5	6	6	6	6	6	6	5	4	4	4
10	TAXI	4	3	3	2	3	5	12	53	67	72	72	79	72	67	74	75	74	74	76	71	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
Total Flow (veh)		35	21	19	17	17	37	97	253	619	767	783	750	687	640	764	767	762	696	703	488	428	161	89	69

NO 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	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.015	0.016	0.016	0.016	0.014	0.014	0.014	0.014	0.014	0.016	0.016	0.016	0.016	0.016	0.016	0.013	0.013
LGV3	0.478	0.476	0.476	0.476	0.476	0.476	0.481	0.628	0.642	0.642	0.657	0.548	0.548	0.548	0.558	0.530	0.657	0.657	0.657	0.642	0.642	0.483	0.481	0.478	
LGV4	0.440	0.437	0.437	0.437	0.437	0.437	0.443	0.599	0.614	0.614	0.630	0.514	0.514	0.514	0.524	0.495	0.630	0.630	0.630	0.614	0.614	0.446	0.443	0.440	
PLB	0.591	0.585	0.585	0.585	0.585	0.585	0.597	0.719	0.728	0.728	0.739	0.658	0.658	0.658	0.666	0.643	0.739	0.739	0.739	0.728	0.728	0.603	0.597	0.591	
LGV6	0.836	0.835	0.835	0.835	0.835	0.835	0.837	1.025	1.042	1.042	1.060	0.924	0.924	0.924	0.937	0.900	1.060	1.060	1.060	1.042	1.042	0.838	0.837	0.836	
HGV7	1.118	1.117	1.117	1.117	1.117	1.117	1.119	1.405	1.431	1.431	1.459	1.251	1.251	1.251	1.270	1.214	1.459	1.459	1.459	1.431	1.431	1.120	1.119	1.118	
HGV8	1.914	1.886	1.886	1.886	1.886	1.886	1.943	2.603	2.663	2.663	2.727	2.258	2.258	2.258	2.300	2.178	2.727	2.727	2.727	2.683	2.683	1.973	1.943	1.914	
FBDD	2.525	2.520	2.520	2.520	2.520	2.520	2.529	3.407	3.490	3.490	3.578	2.928	2.928	2.928	2.987	2.817	3.578	3.578	3.578	3.490	3.490	2.534	2.529	2.525	
MC	0.270	0.269	0.269	0.269	0.269	0.269	0.271	0.302	0.305	0.305	0.308	0.286	0.286	0.286	0.286	0.282	0.308	0.308	0.308	0.305	0.305	0.273	0.271	0.270	
TAXI	0.297	0.296	0.296	0.296	0.296	0.296	0.299	0.333	0.335	0.335	0.338	0.316	0.316	0.316	0.318	0.312	0.338	0.338	0.338	0.335	0.335	0.301	0.299	0.297	
PV4	0.511	0.511	0.511	0.511	0.511	0.511	0.512	0.567	0.574	0.574	0.580	0.533	0.533	0.533	0.537	0.527	0.580	0.580	0.580	0.574	0.574	0.513	0.512	0.511	
PV5	0.576	0.569	0.569	0.569	0.569	0.569	0.562	0.713	0.723	0.723	0.733	0.649	0.649	0.649	0.658	0.633	0.733	0.733	0.733	0.723	0.723	0.589	0.582	0.576	
NFB6	1.259	1.245	1.245	1.245	1.245	1.245	1.273	1.554	1.575	1.575	1.597	1.418	1.418	1.418	1.437	1.383	1.597	1.597	1.597	1.575	1.575	1.288	1.273	1.259	
NFB7	1.711	1.693	1.693	1.693	1.693	1.693	1.731	2.113	2.142	2.142	2.171	1.928	1.928	1.928	1.953	1.881	2.171	2.171	2.171	2.142	2.142	1.750	1.731	1.711	
NFB8	1.947	1.918	1.918	1.918	1.918	1.918	1.978	2.685	2.749	2.749	2.818	2.313	2.313	2.313	2.359	2.228	2.818	2.818	2.818	2.749	2.749	2.010	1.978	1.947	
FBSD	2.273	2.269	2.269	2.269	2.269	2.269	2.278	3.057	3.131	3.131	3.209	2.633	2.633	2.633	2.685	2.534	3.209	3.209	3.209	3.131	3.131	2.282	2.278	2.273	
Total composite emission factor (g/Veh/km)		0.9760	0.7388	0.7851	0.8039	0.7472	0.5503	0.7161	0.5948	1.1377	1.2707	1.0694	0.9601	0.8725	0.8534	0.9278	0.8858	1.0886	1.0015	0.9700	0.7030	0.7252	0.8245	1.0882	1.2535
Total composite emission factor (g/Veh/mile)		1.57	1.19	1.27	1.30	1.21	0.89	1.15	0.96	1.83	2.05	1.72	1.39	1.41	1.38	1.50	1.43	1.76	1.62	1.56	1.13	1.17	1.33	1.76	2.02

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: 2023

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	4	3	2	3	3	3	4	9	14	15	17	15	13	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	
3	LGV4	0	0	0	0	0	1	1	2	6	6	6	6	5	6	6	5	6	6	5	6	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	0	
5	LGV6	0	0	0	0	0	1	1	2	6	6	6	6	5	6	6	5	6	6	5	6	5	0	0	
6	HGV7	0	0	0	0	0	0	0	2	7	8	5	4	4	4	5	4	4	4	5	5	2	1	0	
7	HGV8	0	0	0	0	0	0	4	5	38	42	25	24	23	21	24	24	24	24	24	7	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	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	2	1	1	1	5	9	9	10	10	9	9	10	10	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	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	
Total Flow (veh)		5	4	4	4	4	7	14	30	88	94	76	72	67	64	74	72	70	74	74	49	45	17	13	2

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
PC	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
LGV3	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690
LGV4	0.665	0.665	0.665	0.665	0.665	0.665	0.665	0.665	0.665	0.665	0.665	0.665	0.665	0.665	0.665	0.665	0.665	0.665	0.665	0.665	0.665	0.665	0.665	0.665
PLB	0.760	0.760	0.760	0.760	0.760	0.760	0.760	0.760	0.760	0.760	0.760	0.760	0.760	0.760	0.760	0.760	0.760	0.760	0.760	0.760	0.760	0.760	0.760	0.760
LGV6	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099
HGV7	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519
HGV8	2.865	2.865	2.865	2.865	2.865	2.865	2.865	2.865	2.865	2.865	2.865	2.865	2.865	2.865	2.865	2.865	2.865	2.865	2.865	2.865	2.865	2.865	2.865	2.865
FBDD	3.769	3.769	3.769	3.769	3.769	3.769	3.769	3.769	3.769	3.769	3.769	3.769	3.769	3.769	3.769	3.769	3.769	3.769	3.769	3.769	3.769	3.769	3.769	3.769
MC	0.313	0.313	0.313	0.313	0.313	0.313	0.313	0.313	0.313	0.313	0.313	0.313	0.313	0.313	0.313	0.313	0.313	0.313	0.313	0.313	0.313	0.313	0.313	0.313
TAXI	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344
PV4	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
PV5	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754
NFB6	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641
NFB7	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
NFB8	2.967	2.967	2.967	2.967	2.967	2.967	2.967	2.967	2.967	2.967	2.967	2.967	2.967	2.967	2.967	2.967	2.967	2.967	2.967	2.967	2.967	2.967	2.967	2.967
FBSD	3.378	3.378	3.378	3.378	3.378	3.378	3.378	3.378	3.378	3.378	3.378	3.378	3.378	3.378	3.378	3.378	3.378	3.378	3.378	3.378	3.378	3.378	3.378	3.378
Total composite emission factor (g/Veh/km)	0.0819	0.0983	0.1802	0.0983	0.0983	0.4067	1.1216	0.8736	1.5787	1.6162	1.2941	1.3046	1.3175	1.2894	1.2901	1.3046	1.3167	1.2901	1.2901	0.8039	1.0009	0.2996	0.1424	0.0164
Total composite emission factor (g/Veh/mile)	0.13	0.16	0.29	0.16	0.16	0.66	1.81	1.41	2.55	2.61	2.09	2.10	2.12	2.08	2.08	2.10	2.12	2.08	2.08	1.30	1.61	0.48	0.23	0.03

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: 2023

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	7	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	0
5	LGV6	0	0	0	0	0	0	4	7	14	15	9	8	7	6	8	8	8	8	9	7	3	2	1	1
6	HGV7	0	0	0	0	0	0	3	6	38	42	21	17	19	18	21	20	20	19	3	3	0	0	0	0
7	HGV8	0	0	0	0	0	0	3	6	38	42	21	17	19	18	21	20	20	19	3	3	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	1	1	1	1	1	1	1	1	1	1	1	1	1	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	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	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0
Total Flow (veh)		7	4	2	2	0	4	34	76	179	194	118	103	102	97	112	109	109	110	112	64	35	14	13	4

NO 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	0.015	0.015	0.015	0.015	0.015	0.015	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	0.015
LGV3	0.615	0.615	0.615	0.615	0.615	0.615	0.642	0.657	0.657	0.657	0.657	0.657	0.657	0.657	0.657	0.657	0.673	0.673	0.673	0.657	0.657	0.657	0.657	0.615	
LGV4	0.585	0.585	0.585	0.585	0.585	0.585	0.614	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.647	0.647	0.647	0.630	0.630	0.630	0.630	0.585	
PLB	0.709	0.709	0.709	0.709	0.709	0.709	0.728	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.749	0.749	0.749	0.739	0.739	0.739	0.739	0.709	
LGV6	1.009	1.009	1.009	1.009	1.009	1.009	1.042	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.079	1.079	1.079	1.060	1.060	1.060	1.060	1.009	
HGV7	1.380	1.380	1.380	1.380	1.380	1.380	1.431	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.488	1.488	1.488	1.459	1.459	1.459	1.459	1.380	
HGV8	2.547	2.547	2.547	2.547	2.547	2.547	2.683	2.727	2.727	2.727	2.727	2.727	2.727	2.727	2.727	2.727	2.794	2.794	2.794	2.727	2.727	2.727	2.727	2.547	
FBDD	3.328	3.328	3.328	3.328	3.328	3.328	3.490	3.578	3.578	3.578	3.578	3.578	3.578	3.578	3.578	3.578	3.671	3.671	3.671	3.578	3.578	3.578	3.578	3.328	
MC	0.300	0.300	0.300	0.300	0.300	0.300	0.305	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.308	0.310	0.310	0.310	0.308	0.308	0.308	0.308	0.300	
TAXI	0.330	0.330	0.330	0.330	0.330	0.330	0.335	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.341	0.341	0.341	0.338	0.338	0.338	0.338	0.330	
PV4	0.561	0.561	0.561	0.561	0.561	0.561	0.574	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.587	0.587	0.587	0.580	0.580	0.580	0.580	0.561	
PV5	0.703	0.703	0.703	0.703	0.703	0.703	0.723	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.744	0.744	0.744	0.733	0.733	0.733	0.733	0.703	
NFB6	1.534	1.534	1.534	1.534	1.534	1.534	1.575	1.597	1.597	1.597	1.597	1.597	1.597	1.597	1.597	1.597	1.618	1.618	1.618	1.597	1.597	1.597	1.597	1.534	
NFB7	2.085	2.085	2.085	2.085	2.085	2.085	2.142	2.171	2.171	2.171	2.171	2.171	2.171	2.171	2.171	2.171	2.200	2.200	2.200	2.171	2.171	2.171	2.171	2.085	
NFB8	2.623	2.623	2.623	2.623	2.623	2.623	2.749	2.818	2.818	2.818	2.818	2.818	2.818	2.818	2.818	2.818	2.890	2.890	2.890	2.818	2.818	2.818	2.818	2.623	
FBSD	2.987	2.987	2.987	2.987	2.987	2.987	3.131	3.209	3.209	3.209	3.209	3.209	3.209	3.209	3.209	3.209	3.291	3.291	3.291	3.209	3.209	3.209	3.209	2.987	
Total composite emission factor (g/Veh/km)		0.1908	0.2438	0.1726	0.3151	0.0000	0.1652	0.7045	0.8208	1.1992	1.2086	1.0981	1.0690	1.1350	1.1262	1.1327	1.1253	1.1500	1.1397	1.1056	0.5567	0.6493	0.4593	0.3141	0.5485
Total composite emission factor (g/Veh/mile)		0.31	0.39	0.28	0.51	0.00	0.27	1.14	1.32	1.93	1.95	1.77	1.72	1.83	1.82	1.83	1.82	1.85	1.84	1.78	0.90	1.05	0.74	0.51	0.88

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: 2023

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	2	2	5	14	80	106	113	171	176	153	146	164	167	163	150	170	153	122	23	5	6
2	LGV3	1	3	4	1	2	5	8	8	20	24	44	43	40	38	43	41	43	43	40	50	15	4	3	
3	LGV4	1	1	1	3	2	6	5	8	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	11	12	10	8	8	7	6
5	LGV6	1	1	1	3	2	6	5	5	11	11	34	33	32	31	34	33	34	34	32	32	37	12	3	1
6	HGV7	0	0	0	0	0	0	5	12	154	208	164	152	140	128	159	159	161	143	123	11	10	3	0	0
7	HGV8	0	0	0	0	0	0	6	6	64	124	61	50	44	34	62	67	67	26	30	7	7	0	0	0
8	FBDD	2	1	1	0	0	0	2	4	4	11	11	9	9	4	5	5	5	5	5	5	4	4	3	4
9	MC	0	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
10	TAXI	2	2	2	2	3	5	7	41	48	51	60	68	62	57	63	64	63	63	64	61	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	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
Total Flow (veh)		28	17	17	15	17	33	63	177	440	573	665	647	585	543	652	658	653	586	591	424	393	147	76	65

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	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.015	0.016	0.016	0.016	0.014	0.014	0.014	0.014	0.014	0.016	0.016	0.016	0.016	0.016	0.013	0.013	0.013	0.013
LGV3	0.478	0.476	0.476	0.476	0.476	0.476	0.481	0.628	0.642	0.642	0.657	0.548	0.548	0.548	0.558	0.530	0.657	0.657	0.657	0.642	0.642	0.483	0.481	0.478	0.478
LGV4	0.440	0.437	0.437	0.437	0.437	0.437	0.443	0.599	0.614	0.614	0.630	0.514	0.514	0.514	0.524	0.495	0.630	0.630	0.630	0.614	0.614	0.446	0.443	0.440	0.440
PLB	0.591	0.585	0.585	0.585	0.585	0.585	0.597	0.719	0.728	0.728	0.739	0.658	0.658	0.658	0.666	0.643	0.739	0.739	0.739	0.728	0.728	0.603	0.597	0.591	0.591
LGV6	0.836	0.835	0.835	0.835	0.835	0.835	0.837	1.025	1.042	1.042	1.060	0.924	0.924	0.924	0.937	0.900	1.060	1.060	1.060	1.042	1.042	0.838	0.837	0.836	0.836
HGV7	1.118	1.117	1.117	1.117	1.117	1.117	1.119	1.405	1.431	1.431	1.459	1.251	1.251	1.251	1.270	1.214	1.459	1.459	1.459	1.431	1.431	1.120	1.119	1.118	1.118
HGV8	1.914	1.886	1.886	1.886	1.886	1.886	1.943	2.603	2.663	2.663	2.727	2.258	2.258	2.258	2.300	2.178	2.727	2.727	2.727	2.663	2.663	1.973	1.943	1.914	1.914
FBDD	2.525	2.520	2.520	2.520	2.520	2.520	2.529	3.407	3.490	3.490	3.578	2.928	2.928	2.928	2.987	2.817	3.578	3.578	3.578	3.490	3.490	2.534	2.529	2.525	2.525
MC	0.270	0.269	0.269	0.269	0.269	0.269	0.271	0.302	0.305	0.305	0.308	0.286	0.286	0.286	0.286	0.282	0.308	0.308	0.308	0.305	0.305	0.273	0.271	0.270	0.270
TAXI	0.297	0.296	0.296	0.296	0.296	0.296	0.299	0.333	0.335	0.335	0.338	0.316	0.316	0.316	0.318	0.312	0.338	0.338	0.338	0.335	0.335	0.301	0.299	0.297	0.297
PV4	0.511	0.511	0.511	0.511	0.511	0.511	0.512	0.567	0.574	0.574	0.580	0.533	0.533	0.533	0.537	0.527	0.580	0.580	0.580	0.574	0.574	0.513	0.512	0.511	0.511
PV5	0.576	0.569	0.569	0.569	0.569	0.569	0.582	0.713	0.723	0.723	0.733	0.649	0.649	0.649	0.658	0.633	0.733	0.733	0.733	0.723	0.723	0.589	0.582	0.576	0.576
NFB6	1.259	1.245	1.245	1.245	1.245	1.245	1.273	1.554	1.575	1.575	1.597	1.418	1.418	1.418	1.437	1.383	1.597	1.597	1.597	1.575	1.575	1.288	1.273	1.259	1.259
NFB7	1.711	1.693	1.693	1.693	1.693	1.693	1.731	2.113	2.142	2.142	2.171	1.928	1.928	1.928	1.953	1.881	2.171	2.171	2.171	2.142	2.142	1.750	1.731	1.711	1.711
NFB8	1.947	1.918	1.918	1.918	1.918	1.918	1.978	2.685	2.749	2.749	2.818	2.313	2.313	2.313	2.359	2.228	2.818	2.818	2.818	2.749	2.749	2.010	1.978	1.947	1.947
FBSD	2.273	2.269	2.269	2.269	2.269	2.269	2.278	3.057	3.131	3.131	3.209	2.633	2.633	2.633	2.685	2.534	3.209	3.209	3.209	3.131	3.131	2.282	2.278	2.273	2.273
Total composite emission factor (g/Veh/km)		1.1799	0.8657	0.8593	0.8785	0.7472	0.6014	0.8116	0.5115	1.1229	1.3003	1.0643	0.8532	0.8575	0.8359	0.9201	0.8800	1.0824	0.9802	0.9487	0.7267	0.7331	0.8692	1.2325	1.3040
Total composite emission factor (g/Veh/mile)		1.90	1.40	1.39	1.42	1.21	0.97	1.31	0.82	1.81	2.10	1.72	1.38	1.38	1.35	1.48	1.42	1.75	1.58	1.53	1.17	1.18	1.40	1.99	2.10

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: 2023

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	4	4	3	4	4	0	1	2	0	
3	LGV4	0	0	0	0	0	0	2	6	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	6	9	10	2	3	2	1	2	3	3	2	3	2	0	1	1	
6	HGV7	0	0	0	0	0	0	2	4	24	27	16	12	15	14	17	15	15	16	14	1	2	0	0	
7	HGV8	0	0	0	0	0	0	4	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	1	1	1	1	1	1	1	1	1	1	1	1	1	0	
10	TAXI	1	0	1	0	0	0	3	9	13	15	2	2	1	2	1	2	1	2	1	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	0	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	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	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	
Total Flow (veh)		5	2	2	2	0	3	21	58	120	131	58	50	53	49	56	56	56	54	54	22	12	5	10	4

NO 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	0.014	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	
LGV3	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	
LGV4	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	0.486	0.486	0.486	0.486	0.486	0.486	0.486	
PLB	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636	
LGV6	0.889	0.889	0.889	0.889	0.889	0.889	0.889	0.889	0.889	0.889	0.889	0.889	0.889	0.889	0.889	0.889	0.889	0.889	0.889	0.889	0.889	0.889	0.889	0.889	
HGV7	1.197	1.197	1.197	1.197	1.197	1.197	1.197	1.197	1.197	1.197	1.197	1.197	1.197	1.197	1.197	1.197	1.197	1.197	1.197	1.197	1.197	1.197	1.197	1.197	
HGV8	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140	
FBDD	2.765	2.765	2.765	2.765	2.765	2.765	2.765	2.765	2.765	2.765	2.765	2.765	2.765	2.765	2.765	2.765	2.765	2.765	2.765	2.765	2.765	2.765	2.765	2.765	
MC	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	
TAXI	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	
PV4	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	
PV5	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	
NFB6	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	
NFB7	1.858	1.858	1.858	1.858	1.858	1.858	1.858	1.858	1.858	1.858	1.858	1.858	1.858	1.858	1.858	1.858	1.858	1.858	1.858	1.858	1.858	1.858	1.858	1.858	
NFB8	2.187	2.187	2.187	2.187	2.187	2.187	2.187	2.187	2.187	2.187	2.187	2.187	2.187	2.187	2.187	2.187	2.187	2.187	2.187	2.187	2.187	2.187	2.187	2.187	
FBSD	2.488	2.488	2.488	2.488	2.488	2.488	2.488	2.488	2.488	2.488	2.488	2.488	2.488	2.488	2.488	2.488	2.488	2.488	2.488	2.488	2.488	2.488	2.488	2.488	
Total composite emission factor (g/Veh/km)		0.1743	0.2672	0.1617	0.2672	0.0000	0.1827	0.5719	0.6911	0.9532	0.9649	1.1237	1.0634	1.1603	1.1546	1.2081	1.1283	1.1283	1.1910	1.1082	0.4258	0.6515	0.4438	0.3061	0.4684
Total composite emission factor (g/Veh/mile)		0.28	0.43	0.26	0.43	0.00	0.29	0.92	1.11	1.54	1.56	1.81	1.72	1.87	1.86	1.95	1.82	1.82	1.92	1.79	0.69	1.05	0.72	0.49	0.76

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: 2023

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	8	6	3	2	0	
3	LGV4	0	0	0	0	0	0	2	1	5	7	5	5	5	5	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	1	5	5	7	5	5	5	6	5	5	6	6	5	3	1	0	
6	HGV7	0	0	0	0	0	0	1	2	14	15	5	5	4	4	4	5	5	4	5	2	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	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	0	2	3	6	6	10	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	0	1	1	1	1	1	1	1	1	1	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		
15	NFB8	0	0	0	0	0	0	0	0	0	0	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		
Total Flow (veh)		2	2	0	0	0	1	13	18	59	63	60	53	49	48	56	53	53	56	58	42	23	9	3	0

NO 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	0.014	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
LGV3	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
LGV4	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495
PLB	0.643	0.643	0.643	0.643	0.643	0.643	0.643	0.643	0.643	0.643	0.643	0.643	0.643	0.643	0.643	0.643	0.643	0.643	0.643	0.643	0.643	0.643	0.643	0.643
LGV6	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900
HGV7	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214
HGV8	2.178	2.178	2.178	2.178	2.178	2.178	2.178	2.178	2.178	2.178	2.178	2.178	2.178	2.178	2.178	2.178	2.178	2.178	2.178	2.178	2.178	2.178	2.178	2.178
FBDD	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
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	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312
PV4	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527	0.527
PV5	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633
NFB6	1.383	1.383	1.383	1.383	1.383	1.383	1.383	1.383	1.383	1.383	1.383	1.383	1.383	1.383	1.383	1.383	1.383	1.383	1.383	1.383	1.383	1.383	1.383	1.383
NFB7	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881
NFB8	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228
FBSD	2.534	2.534	2.534	2.534	2.534	2.534	2.534	2.534	2.534	2.534	2.534	2.534	2.534	2.534	2.534	2.534	2.534	2.534	2.534	2.534	2.534	2.534	2.534	2.534

Total composite emission factor (g/Veh/km)	0.1628	0.1628	0.0000	0.0000	0.0000	0.0137	0.6081	0.5992	1.0020	1.0008	0.6629	0.6817	0.6570	0.6642	0.6248	0.6817	0.6817	0.6248	0.6617	0.4743	0.4654	0.3465	0.1131	0.0000
Total composite emission factor (g/Veh/mile)	0.26	0.26	0.00	0.00	0.00	0.02	0.98	0.97	1.62	1.61	1.07	1.10	1.06	1.07	1.01	1.10	1.01	1.07	0.76	0.75	0.56	0.18	0.00	

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

0414816 TMFB

Pollutant Name: PM10 (g/veh/km)

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	FBSB ALL
10	0.010	0.040	0.037	0.057	0.079	0.146	0.309	0.194	0.333	0.015	0.000	0.057	0.100	0.159	0.112	0.439	0.289
17	0.007	0.032	0.030	0.043	0.062	0.087	0.221	0.139	0.254	0.010	0.000	0.045	0.076	0.120	0.080	0.314	0.222
18	0.007	0.031	0.029	0.041	0.061	0.083	0.214	0.134	0.247	0.010	0.000	0.044	0.073	0.116	0.077	0.303	0.215
27	0.005	0.024	0.023	0.030	0.050	0.058	0.165	0.104	0.199	0.007	0.000	0.033	0.052	0.083	0.061	0.235	0.174
28	0.004	0.024	0.022	0.029	0.050	0.057	0.162	0.101	0.195	0.007	0.000	0.033	0.050	0.080	0.060	0.230	0.171
29	0.004	0.023	0.022	0.028	0.049	0.055	0.158	0.099	0.192	0.007	0.000	0.032	0.049	0.077	0.058	0.225	0.168
30	0.004	0.023	0.021	0.027	0.048	0.054	0.155	0.097	0.188	0.006	0.000	0.031	0.047	0.075	0.057	0.220	0.165
31	0.004	0.022	0.021	0.026	0.048	0.052	0.152	0.095	0.185	0.006	0.000	0.030	0.046	0.072	0.056	0.215	0.162
32	0.004	0.022	0.020	0.025	0.047	0.051	0.149	0.093	0.182	0.006	0.000	0.029	0.044	0.070	0.055	0.211	0.159
33	0.004	0.021	0.020	0.024	0.047	0.050	0.146	0.091	0.179	0.006	0.000	0.029	0.043	0.068	0.054	0.207	0.156
34	0.004	0.021	0.020	0.024	0.046	0.049	0.143	0.090	0.176	0.006	0.000	0.028	0.042	0.066	0.053	0.203	0.154
35	0.003	0.020	0.019	0.023	0.045	0.048	0.141	0.088	0.173	0.005	0.000	0.027	0.041	0.064	0.052	0.200	0.152
36	0.003	0.020	0.019	0.022	0.045	0.047	0.138	0.087	0.171	0.005	0.000	0.027	0.040	0.063	0.052	0.196	0.149
37	0.003	0.019	0.018	0.022	0.045	0.046	0.136	0.085	0.168	0.005	0.000	0.026	0.039	0.061	0.051	0.193	0.147
38	0.003	0.019	0.018	0.021	0.044	0.045	0.133	0.084	0.166	0.005	0.000	0.025	0.038	0.060	0.050	0.190	0.145
39	0.003	0.019	0.018	0.021	0.044	0.044	0.131	0.082	0.164	0.005	0.000	0.025	0.037	0.058	0.049	0.186	0.143
40	0.003	0.018	0.017	0.021	0.043	0.043	0.129	0.081	0.162	0.005	0.000	0.024	0.036	0.057	0.049	0.183	0.141
41	0.003	0.018	0.017	0.020	0.043	0.043	0.127	0.080	0.160	0.005	0.000	0.024	0.035	0.056	0.048	0.181	0.140
42	0.003	0.017	0.016	0.020	0.043	0.042	0.125	0.079	0.158	0.004	0.000	0.023	0.035	0.055	0.047	0.178	0.138
43	0.003	0.017	0.016	0.019	0.042	0.041	0.124	0.077	0.156	0.004	0.000	0.023	0.034	0.054	0.047	0.175	0.136
44	0.003	0.017	0.016	0.019	0.042	0.041	0.122	0.076	0.154	0.004	0.000	0.022	0.034	0.053	0.046	0.173	0.135
45	0.003	0.017	0.016	0.019	0.042	0.040	0.120	0.075	0.152	0.004	0.000	0.022	0.033	0.053	0.045	0.170	0.133
50	0.002	0.015	0.014	0.018	0.041	0.038	0.112	0.070	0.144	0.004	0.000	0.020	0.032	0.050	0.043	0.160	0.126
51	0.002	0.015	0.014	0.018	0.041	0.037	0.112	0.070	0.144	0.004	0.000	0.020	0.032	0.050	0.042	0.160	0.126
52	0.002	0.015	0.014	0.018	0.041	0.037	0.112	0.070	0.144	0.004	0.000	0.019	0.031	0.050	0.042	0.159	0.126
53	0.002	0.014	0.014	0.018	0.041	0.036	0.112	0.070	0.144	0.004	0.000	0.019	0.031	0.050	0.041	0.159	0.126
54	0.002	0.014	0.013	0.018	0.041	0.036	0.112	0.070	0.144	0.004	0.000	0.019	0.031	0.049	0.041	0.159	0.126

EMFAC-HK Model (v 3.4) Key Assumptions:

Mode: EMFAC

Calendar Year 2023

Temperature and relative humidity 24 degree C, 77% (2017 average at Tuen Mun Weather Station)

Vehicle Population (external roads) Default

Vehicle Population (internal roads All HGV8 (year 2019) are of Euro V standard

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: 2023

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	34	121	176	189	253	245	220	211	240	235	232	225	248	220	167	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	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	53	54	55	50	51	20	10	6	
6	HGV7	0	0	0	0	0	0	0	7	26	296	376	292	267	251	234	281	277	280	262	225	22	17	4	0	0
7	HGV8	0	0	0	0	0	0	26	61	689	875	679	624	587	545	656	646	653	611	524	52	38	10	0	0	
8	FBDD	2	1	1	0	0	0	2	4	4	11	11	9	9	11	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	5	6	6	6	6	6	6	5	4	4	4	
10	TAXI	9	5	6	4	5	7	16	66	90	98	100	103	93	89	101	99	98	101	104	93	77	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	
Total Flow (veh)		61	33	30	24	24	47	139	360	1415	1714	1619	1516	1407	1324	1559	1534	1537	1480	1391	643	541	226	139	98	

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	0.003	0.004	0.005	0.003	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	0.002
LGV3	0.015	0.014	0.014	0.014	0.014	0.014	0.015	0.020	0.024	0.024	0.020	0.018	0.017	0.017	0.018	0.018	0.021	0.023	0.022	0.018	0.018	0.015	0.015	0.015	0.015
LGV4	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.019	0.022	0.023	0.019	0.017	0.016	0.016	0.017	0.017	0.020	0.022	0.021	0.017	0.017	0.014	0.014	0.014	0.014
PLB	0.018	0.018	0.018	0.018	0.018	0.018	0.023	0.029	0.030	0.023	0.020	0.020	0.019	0.020	0.020	0.020	0.024	0.028	0.026	0.021	0.021	0.018	0.018	0.018	0.018
LGV6	0.041	0.041	0.041	0.041	0.041	0.041	0.045	0.050	0.050	0.045	0.043	0.043	0.042	0.043	0.043	0.046	0.049	0.048	0.043	0.043	0.041	0.041	0.041	0.041	0.041
HGV7	0.037	0.036	0.036	0.036	0.036	0.037	0.048	0.057	0.058	0.048	0.043	0.042	0.041	0.043	0.043	0.049	0.055	0.052	0.043	0.043	0.038	0.037	0.037	0.037	0.037
HGV8	0.112	0.112	0.112	0.112	0.112	0.112	0.141	0.162	0.165	0.141	0.127	0.125	0.122	0.127	0.127	0.143	0.158	0.152	0.129	0.129	0.112	0.112	0.112	0.112	0.112
FBDD	0.144	0.144	0.144	0.144	0.144	0.144	0.173	0.195	0.199	0.173	0.160	0.158	0.154	0.160	0.160	0.176	0.192	0.185	0.162	0.162	0.144	0.144	0.144	0.144	0.144
MC	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.007	0.007	0.005	0.005	0.004	0.004	0.005	0.005	0.006	0.007	0.006	0.005	0.005	0.004	0.004	0.004	0.004	0.004
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	0.019	0.019	0.019	0.019	0.019	0.019	0.020	0.027	0.033	0.033	0.027	0.024	0.023	0.022	0.024	0.024	0.028	0.032	0.030	0.024	0.024	0.020	0.020	0.019	0.019
PV5	0.031	0.031	0.031	0.031	0.031	0.031	0.032	0.041	0.050	0.052	0.041	0.035	0.035	0.034	0.035	0.035	0.042	0.049	0.046	0.036	0.036	0.032	0.032	0.031	0.031
NFB6	0.050	0.050	0.050	0.050	0.050	0.050	0.064	0.080	0.083	0.064	0.056	0.055	0.053	0.056	0.056	0.066	0.077	0.072	0.057	0.057	0.050	0.050	0.050	0.050	0.050
NFB7	0.042	0.041	0.041	0.041	0.041	0.041	0.042	0.052	0.060	0.061	0.052	0.048	0.047	0.046	0.048	0.048	0.053	0.058	0.056	0.049	0.049	0.043	0.042	0.042	0.042
NFB8	0.159	0.159	0.159	0.159	0.159	0.159	0.160	0.200	0.230	0.235	0.200	0.181	0.178	0.173	0.181	0.181	0.203	0.225	0.215	0.183	0.183	0.160	0.160	0.159	0.159
FBSD	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.152	0.171	0.174	0.152	0.140	0.138	0.135	0.140	0.140	0.154	0.168	0.162	0.141	0.141	0.128	0.126	0.126	0.126
Total composite emission factor (g/Veh/km)		0.0313	0.0235	0.0250	0.0261	0.0239	0.0197	0.0385	0.0385	0.0966	0.1028	0.0772	0.0687	0.0683	0.0658	0.0700	0.0700	0.0794	0.0865	0.0777	0.0313	0.0307	0.0342	0.0378	0.0481
Total composite emission factor (g/Veh/mile)		0.05	0.04	0.04	0.04	0.04	0.03	0.06	0.06	0.16	0.17	0.12	0.11	0.11	0.11	0.11	0.13	0.14	0.13	0.05	0.05	0.06	0.06	0.08	0.08

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: 2023

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	0	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	2		
6	HGV7	0	0	0	0	0	0	2	74	79	67	62	58	56	63	62	61	63	65	2	1	1	0		
7	HGV8	0	0	0	0	0	0	6	18	416	446	378	351	327	315	0	0	0	0	13	6	0	0		
8	FBD	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	2	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		
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		
Total Flow (veh)		13	7	6	3	3	3	15	32	513	549	480	440	411	397	453	440	432	453	473	41	28	24	17	13

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	0.007	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
LGV3	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.031	0.031	0.031	0.031
LGV4	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.029	0.029	0.029	0.029	0.029
PLB	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
LGV6	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.061	0.061	0.061	0.061	0.061
HGV7	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.083	0.083	0.083	0.083	0.083
HGV8	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.214	0.214	0.214	0.214	0.214
FBD	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.247	0.247	0.247	0.247	0.247
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	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.044	0.044	0.044	0.044	0.044
PV5	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.073	0.073	0.073	0.073	0.073
NFB6	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.116	0.116	0.116	0.116	0.116
NFB7	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.077	0.077	0.077	0.077	0.077
NFB8	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.303	0.303	0.303	0.303	0.303
FBSD	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.215	0.215	0.215	0.215	0.215

Total composite emission factor (g/Veh/km)	0.0230	0.0202	0.0224	0.0126	0.0126	0.0126	0.1058	0.1330	0.1930	0.1932	0.1878	0.1900	0.1895	0.1891	0.1887	0.1900	0.1897	0.1887	0.1878	0.0835	0.0652	0.0739	0.0241	0.0236
Total composite emission factor (g/Veh/mile)	0.04	0.03	0.04	0.02	0.02	0.02	0.17	0.21	0.31	0.31	0.30	0.31	0.31	0.31	0.30	0.31	0.31	0.30	0.30	0.13	0.11	0.12	0.04	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: 2023

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	31	116	168	181	236	232	207	198	225	222	219	210	231	207	157	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	17	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	51	51	51	47	48	17	7	4
6	HGV7	0	0	0	0	0	0	7	9	24	22	297	225	205	193	178	219	215	219	199	160	20	16	3	0
7	HGV8	0	0	0	0	0	0	20	43	273	429	301	273	280	230	297	295	309	252	151	39	32	4	0	
8	FBDD	2	1	1	0	0	0	2	2	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	5	6	6	6	6	6	6	5	4	4	4
10	TAXI	7	4	5	3	4	6	15	64	86	93	95	100	90	86	96	95	96	99	90	76	33	14	4	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	13	13	11	9	8	8	7	7
Total Flow (veh)		48	26	24	21	21	44	124	328	902	1165	1139	1076	996	927	1106	1094	1105	1027	918	602	513	202	122	85

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	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	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	0.014	0.014	0.014	0.014	0.014	0.015	0.019	0.020	0.020	0.020	0.017	0.017	0.018	0.018	0.018	0.021	0.023	0.022	0.018	0.017	0.015	0.015	0.015	
LGV4	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.018	0.019	0.019	0.019	0.016	0.016	0.017	0.017	0.017	0.020	0.022	0.021	0.017	0.016	0.014	0.014	0.014	
PLB	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.022	0.023	0.023	0.023	0.019	0.019	0.019	0.020	0.020	0.024	0.028	0.026	0.020	0.019	0.018	0.018	0.018	
LGV6	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.045	0.045	0.045	0.045	0.042	0.042	0.042	0.043	0.043	0.046	0.049	0.048	0.043	0.042	0.041	0.041	0.041	
HGV7	0.037	0.036	0.036	0.036	0.036	0.036	0.037	0.046	0.048	0.048	0.048	0.041	0.041	0.043	0.043	0.049	0.055	0.052	0.043	0.041	0.038	0.037	0.037	0.037	
HGV8	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.136	0.141	0.141	0.141	0.122	0.122	0.124	0.127	0.127	0.143	0.158	0.152	0.127	0.122	0.112	0.112	0.112	
FBDD	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.168	0.173	0.173	0.154	0.154	0.156	0.160	0.160	0.176	0.192	0.185	0.160	0.154	0.144	0.144	0.144	0.144	
MC	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.005	0.005	0.006	0.007	0.006	0.005	0.004	0.004	0.004	0.004	
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	0.020	0.026	0.027	0.027	0.027	0.022	0.022	0.023	0.024	0.024	0.028	0.032	0.030	0.024	0.022	0.020	0.020	0.019	
PV5	0.031	0.031	0.031	0.031	0.031	0.031	0.032	0.039	0.041	0.041	0.041	0.034	0.034	0.034	0.035	0.035	0.042	0.049	0.046	0.035	0.034	0.032	0.032	0.031	
NFB6	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.061	0.064	0.064	0.064	0.053	0.053	0.054	0.056	0.056	0.066	0.077	0.072	0.056	0.053	0.050	0.050	0.050	
NFB7	0.042	0.041	0.041	0.041	0.041	0.041	0.042	0.051	0.052	0.052	0.052	0.046	0.046	0.047	0.048	0.048	0.053	0.058	0.056	0.048	0.046	0.043	0.042	0.042	
NFB8	0.159	0.159	0.159	0.159	0.159	0.159	0.160	0.193	0.200	0.200	0.200	0.173	0.173	0.175	0.181	0.181	0.203	0.225	0.215	0.181	0.173	0.160	0.160	0.159	
FBSD	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.147	0.152	0.152	0.152	0.135	0.135	0.136	0.140	0.140	0.154	0.168	0.162	0.140	0.135	0.126	0.126	0.126	
Total composite emission factor (g/Veh/km)		0.0365	0.0269	0.0283	0.0291	0.0266	0.0207	0.0365	0.0325	0.0620	0.0705	0.0600	0.0503	0.0512	0.0506	0.0546	0.0547	0.0629	0.0656	0.0519	0.0296	0.0285	0.0336	0.0412	0.0535
Total composite emission factor (g/Veh/mile)		0.06	0.04	0.05	0.05	0.04	0.03	0.06	0.05	0.10	0.11	0.10	0.08	0.08	0.08	0.09	0.09	0.10	0.11	0.08	0.05	0.05	0.05	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: 2023

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	30	114	165	178	225	222	198	190	215	212	209	200	221	198	149	38	19	9	
2	LGV3	2	4	4	2	2	7	16	25	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	17	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	48	47	44	45	14	4	2		
6	HGV7	0	0	0	0	0	0	9	23	205	265	195	177	167	154	190	187	189	173	152	19	16	3	0	0	
7	HGV8	0	0	0	0	0	0	17	37	182	253	137	119	112	98	137	139	137	100	103	33	29	3	0	0	
8	FBDD	2	1	1	0	0	0	2	4	4	11	11	9	8	5	8	6	6	6	6	9	8	7	6	6	
9	MC	0	0	0	0	0	0	0	1	1	6	6	6	5	6	6	6	6	6	6	6	5	4	4	4	
10	TAXI	5	4	5	3	4	6	15	62	84	91	88	94	85	81	90	89	90	89	92	85	71	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	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	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	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	
Total Flow (veh)		40	25	23	21	21	44	120	315	785	948	913	868	798	748	892	884	877	823	831	571	487	181	102	71	

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	0.003	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	0.002	0.002	0.002	0.002
LGV3	0.015	0.014	0.014	0.014	0.014	0.014	0.015	0.020	0.021	0.021	0.021	0.017	0.017	0.017	0.018	0.017	0.021	0.021	0.021	0.021	0.021	0.015	0.015	0.015	0.015
LGV4	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.019	0.020	0.020	0.020	0.016	0.016	0.016	0.017	0.018	0.020	0.020	0.020	0.020	0.020	0.014	0.014	0.014	0.014
PLB	0.018	0.018	0.018	0.018	0.018	0.018	0.018	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	0.018	0.018	0.018	0.018
LGV6	0.041	0.041	0.041	0.041	0.041	0.041	0.045	0.046	0.046	0.047	0.043	0.043	0.043	0.043	0.042	0.047	0.047	0.047	0.046	0.046	0.041	0.041	0.041	0.041	0.041
HGV7	0.037	0.036	0.036	0.036	0.036	0.036	0.037	0.048	0.049	0.049	0.050	0.042	0.042	0.042	0.043	0.041	0.050	0.050	0.050	0.049	0.049	0.038	0.037	0.037	0.037
HGV8	0.112	0.112	0.112	0.112	0.112	0.112	0.141	0.143	0.143	0.146	0.125	0.125	0.125	0.125	0.127	0.122	0.146	0.146	0.146	0.143	0.143	0.112	0.112	0.112	0.112
FBDD	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.173	0.176	0.176	0.179	0.158	0.158	0.158	0.160	0.154	0.179	0.179	0.179	0.176	0.176	0.144	0.144	0.144	0.144
MC	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006	0.004	0.004	0.004	0.005	0.004	0.006	0.006	0.006	0.006	0.006	0.004	0.004	0.004	0.004
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	0.019	0.019	0.019	0.019	0.019	0.019	0.020	0.027	0.028	0.028	0.029	0.023	0.023	0.023	0.024	0.022	0.029	0.029	0.029	0.028	0.028	0.020	0.020	0.020	0.020
PV5	0.031	0.031	0.031	0.031	0.031	0.031	0.032	0.041	0.042	0.042	0.043	0.035	0.035	0.035	0.035	0.034	0.043	0.043	0.043	0.042	0.042	0.032	0.032	0.032	0.031
NFB6	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.064	0.066	0.066	0.068	0.055	0.055	0.055	0.056	0.053	0.068	0.068	0.068	0.066	0.066	0.050	0.050	0.050	0.050
NFB7	0.042	0.041	0.041	0.041	0.041	0.041	0.042	0.052	0.053	0.053	0.054	0.047	0.047	0.047	0.048	0.046	0.054	0.054	0.054	0.053	0.053	0.043	0.042	0.042	0.042
NFB8	0.159	0.159	0.159	0.159	0.159	0.159	0.160	0.200	0.203	0.203	0.207	0.178	0.178	0.178	0.181	0.173	0.207	0.207	0.207	0.203	0.203	0.160	0.160	0.160	0.159
FBSD	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.152	0.154	0.154	0.156	0.138	0.138	0.138	0.140	0.135	0.156	0.156	0.156	0.154	0.154	0.126	0.126	0.126	0.126
Total composite emission factor (g/Veh/km)		0.0416	0.0279	0.0294	0.0291	0.0266	0.0207	0.0349	0.0320	0.0549	0.0600	0.0495	0.0403	0.0408	0.0398	0.0432	0.0416	0.0502	0.0463	0.0456	0.0330	0.0338	0.0356	0.0470	0.0619
Total composite emission factor (g/Veh/mile)		0.07	0.05	0.05	0.05	0.04	0.03	0.06	0.05	0.09	0.10	0.08	0.07	0.07	0.06	0.07	0.08	0.08	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: 2023

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	2	5	11	13	9	7	7	9	7	7	9	7	9	7	2	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	1	3	6	7	5	4	4	5	4	4	5	3	2	0	0	0	0	
7	HGV8	0	0	0	0	0	0	3	20	37	40	28	25	24	23	28	25	24	28	28	20	8	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	0	0	0	0	0	2	4	8	10	6	4	4	4	6	4	6	6	4	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	
Total Flow (veh)		0	0	0	0	0	8	32	67	75	49	41	40	39	49	41	40	49	49	35	13	1	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	0.018	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	
PLB	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	
LGV6	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	
HGV7	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	
HGV8	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	
FBDD	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
MC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
TAXI	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	
PV4	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	
PV5	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	
NFB6	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	
NFB7	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	
NFB8	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	
FBSD	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0555	0.0867	0.0787	0.0763	0.0804	0.0853	0.0842	0.0830	0.0804	0.0853	0.0842	0.0804	0.0804	0.0799	0.0880	0.1313	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.14	0.13	0.12	0.13	0.14	0.14	0.13	0.13	0.14	0.14	0.13	0.13	0.13	0.14	0.21	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: 2023

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	0	2	3	2	1	1	2	0	1	1	2	1	0	1	0	0			
2	LGV3	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	1	1	1	1	1	1	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	0	1	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	1	2	5	5	2	3	2	2	3	2	2	2	2	1	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	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			
Total Flow (veh)		0	0	0	0	0	0	1	2	11	12	5	5	4	5	5	4	5	4	5	4	5	4	1	2	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	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	0.017
LGV4	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	0.016
PLB	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	0.019
LGV6	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	0.042
HGV7	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	0.041
HGV8	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124
FBDD	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156
MC	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	0.004
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	0.023	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	0.023
PV5	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034
NFB6	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	0.054
NFB7	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	0.047
NFB8	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175
FBSD	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136

Total composite emission factor (g/Veh/km)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1235	0.1235	0.0632	0.0602	0.0539	0.0746	0.0667	0.0533	0.0539	0.0926	0.0533	0.0667	0.0539	0.0358	0.1235	0.0631	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.20	0.10	0.10	0.09	0.12	0.11	0.09	0.09	0.15	0.09	0.11	0.09	0.06	0.20	0.10	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: 2023

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	2	5	13	16	11	8	8	11	7	8	10	11	8	2	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	1	3	6	7	5	4	4	5	4	4	5	4	3	2	0	0	0	
7	HGV8	0	0	0	0	0	0	4	20	42	45	30	28	26	25	30	28	26	30	18	9	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	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	2	4	8	10	6	5	4	5	6	5	5	6	6	5	1	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	
Total Flow (veh)		0	0	0	0	0	9	32	78	87	54	46	44	44	54	45	45	53	54	34	14	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	0.018	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
PLB	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
LGV6	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
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	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133
FBDD	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166
MC	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	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	0.025	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
PV5	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
NFB6	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
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	0.190	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	0.145	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
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0649	0.0881	0.0784	0.0758	0.0796	0.0860	0.0843	0.0813	0.0796	0.0879	0.0824	0.0810	0.0796	0.0686	0.0926	0.0899	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.10	0.14	0.13	0.12	0.13	0.14	0.14	0.13	0.13	0.14	0.13	0.13	0.13	0.11	0.15	0.15	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: 2023

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	2	5	13	16	11	8	8	11	7	8	10	11	8	2	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	0	4	3	5	4	4	5	4	4	5	5	3	2	0	0	0	
7	HGV8	0	0	0	0	0	0	0	0	20	42	45	30	28	25	30	28	26	30	30	16	9	2	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	2	4	8	10	6	5	4	5	6	5	6	6	5	1	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	FBSB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		0	0	0	0	0	0	9	32	78	87	54	46	44	44	54	45	45	53	54	34	14	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	0.018	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	
PLB	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	
LGV6	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	
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	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	
FBDD	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	
MC	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	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	0.025	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	
PV5	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	
NFB6	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	
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	0.190	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	
FBSB	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	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0649	0.0881	0.0784	0.0758	0.0796	0.0860	0.0843	0.0813	0.0796	0.0879	0.0824	0.0810	0.0796	0.0686	0.0926	0.0899	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.14	0.13	0.12	0.13	0.14	0.14	0.13	0.13	0.14	0.13	0.13	0.13	0.11	0.15	0.15	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: 2023

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	24	100	138	147	197	199	175	168	188	190	186	174	194	175	135	27	11	7
2	LGV3	2	4	4	2	2	6	13	20	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	15	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	12	25	26	43	41	39	37	42	41	42	41	39	40	14	4	2	
6	HGV7	0	0	0	0	0	0	0	3	18	192	250	185	169	159	146	180	179	181	163	142	14	13	3	0
7	HGV8	0	0	0	0	0	0	0	9	12	102	166	82	67	63	52	83	87	87	46	49	10	10	0	0
8	FBDD	2	1	1	0	0	0	2	4	4	11	11	9	9	11	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	6	5	4	4	4
10	TAXI	4	3	3	2	3	5	12	53	67	72	72	79	72	67	74	75	74	76	71	63	23	5	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	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
Total Flow (veh)		35	21	19	17	17	37	97	253	619	767	783	750	687	640	764	767	762	696	703	488	428	161	89	69

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	0.003	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	0.002
LGV3	0.015	0.014	0.014	0.014	0.014	0.014	0.015	0.020	0.021	0.021	0.017	0.017	0.017	0.017	0.018	0.017	0.021	0.021	0.021	0.021	0.021	0.015	0.015	0.015	0.015
LGV4	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.019	0.020	0.020	0.020	0.016	0.016	0.016	0.017	0.016	0.020	0.020	0.020	0.020	0.020	0.014	0.014	0.014	0.014
PLB	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.023	0.024	0.024	0.024	0.020	0.020	0.020	0.019	0.024	0.024	0.024	0.024	0.024	0.024	0.018	0.018	0.018	0.018
LGV6	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.045	0.046	0.046	0.047	0.043	0.043	0.043	0.043	0.042	0.047	0.047	0.047	0.046	0.046	0.041	0.041	0.041	0.041
HGV7	0.037	0.036	0.036	0.036	0.036	0.036	0.037	0.048	0.049	0.049	0.050	0.042	0.042	0.042	0.043	0.041	0.050	0.050	0.050	0.049	0.049	0.038	0.037	0.037	0.037
HGV8	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.141	0.143	0.143	0.146	0.125	0.125	0.125	0.127	0.122	0.146	0.146	0.146	0.143	0.143	0.112	0.112	0.112	0.112
FBDD	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.173	0.176	0.176	0.179	0.158	0.158	0.158	0.160	0.154	0.179	0.179	0.179	0.176	0.176	0.144	0.144	0.144	0.144
MC	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006	0.004	0.004	0.004	0.005	0.004	0.006	0.006	0.006	0.006	0.006	0.004	0.004	0.004	0.004
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	0.019	0.019	0.019	0.019	0.019	0.019	0.020	0.027	0.028	0.028	0.029	0.023	0.023	0.023	0.024	0.022	0.029	0.029	0.029	0.028	0.028	0.020	0.020	0.019	0.019
PV5	0.031	0.031	0.031	0.031	0.031	0.031	0.032	0.041	0.042	0.042	0.043	0.035	0.035	0.035	0.035	0.034	0.043	0.043	0.043	0.043	0.042	0.032	0.032	0.031	0.031
NFB6	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.064	0.066	0.066	0.068	0.055	0.055	0.055	0.056	0.053	0.068	0.068	0.068	0.066	0.066	0.050	0.050	0.050	0.050
NFB7	0.042	0.041	0.041	0.041	0.041	0.041	0.042	0.052	0.053	0.053	0.054	0.047	0.047	0.047	0.048	0.046	0.054	0.054	0.054	0.053	0.053	0.043	0.042	0.042	0.042
NFB8	0.159	0.159	0.159	0.159	0.159	0.159	0.160	0.200	0.203	0.203	0.207	0.178	0.178	0.178	0.181	0.173	0.207	0.207	0.207	0.203	0.203	0.160	0.160	0.159	0.159
FBSD	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.152	0.154	0.154	0.156	0.138	0.138	0.138	0.140	0.135	0.156	0.156	0.156	0.154	0.154	0.126	0.126	0.126	0.126
Total composite emission factor (g/Veh/km)		0.0473	0.0330	0.0354	0.0356	0.0325	0.0226	0.0324	0.0240	0.0486	0.0558	0.0459	0.0368	0.0372	0.0362	0.0402	0.0386	0.0469	0.0418	0.0410	0.0302	0.0307	0.0378	0.0537	0.0637
Total composite emission factor (g/Veh/mile)		0.08	0.05	0.06	0.06	0.05	0.04	0.05	0.04	0.08	0.09	0.07	0.06	0.06	0.06	0.06	0.06	0.08	0.07	0.07	0.05	0.05	0.06	0.09	0.10

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: 2023

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	13	14	16	15	15	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	2	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	LGV5	0	0	0	0	0	1	1	2	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	4	5	4	4	5	5	2	1	0		
7	HGV8	0	0	0	0	0	0	4	5	38	42	25	24	23	21	24	24	24	24	24	7	10	1		
8	FBD	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	5	9	9	10	10	9	9	10	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		
Total Flow (veh)		5	4	4	4	4	7	14	30	88	94	76	72	67	64	74	72	70	74	74	49	45	17	13	2

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	0.022	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	
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	0.026	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	
LGV5	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	0.052	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	
HGV8	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	
FBD	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	
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	0.030	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	
PV5	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	
NFB6	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	
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	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	
FBSD	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	
Total composite emission factor (g/Veh/km)		0.0031	0.0029	0.0020	0.0029	0.0029	0.0146	0.0541	0.0382	0.0770	0.0791	0.0617	0.0621	0.0632	0.0613	0.0612	0.0621	0.0629	0.0612	0.0612	0.0347	0.0460	0.0112	0.0024	0.0039
Total composite emission factor (g/Veh/mile)		0.01	0.00	0.00	0.00	0.00	0.02	0.09	0.06	0.12	0.13	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.06	0.07	0.02	0.00	0.01

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: 2023

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	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	2	0	
3	LGV4	0	0	0	0	0	0	4	7	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		
5	LGV6	0	0	0	0	0	0	4	7	14	15	9	8	7	6	8	8	8	8	8	7	3	2		
6	HGV7	0	0	0	0	0	0	3	6	38	42	21	17	19	18	21	20	20	19	3	3	0	0		
7	HGV8	0	0	0	0	0	0	3	6	38	42	21	17	19	18	21	20	20	19	3	3	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	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		
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	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	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		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total Flow (veh)		7	4	2	2	0	4	34	76	179	194	118	103	102	97	112	109	109	110	112	64	35	14	13	4

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	0.004	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	0.020	0.020	0.020	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.022	0.022	0.021	0.021	0.021	0.020		
LGV4	0.019	0.019	0.019	0.019	0.019	0.019	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	0.019		
PLB	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	0.025	0.025	0.025	0.024	0.024	0.024	0.022		
LGV6	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	0.045		
HGV7	0.047	0.047	0.047	0.047	0.047	0.047	0.049	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.051	0.051	0.051	0.050	0.050	0.050	0.050	0.047		
HGV8	0.138	0.138	0.138	0.138	0.138	0.138	0.143	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.149	0.149	0.149	0.146	0.146	0.146	0.138		
FBDD	0.171	0.171	0.171	0.171	0.171	0.171	0.176	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.182	0.182	0.182	0.179	0.179	0.179	0.171		
MC	0.005	0.005	0.005	0.005	0.005	0.005	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	0.005		
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		
PV4	0.027	0.027	0.027	0.027	0.027	0.027	0.028	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	0.027		
PV5	0.040	0.040	0.040	0.040	0.040	0.040	0.042	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.044	0.044	0.044	0.043	0.043	0.043	0.043	0.040		
NFB6	0.063	0.063	0.063	0.063	0.063	0.063	0.066	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.070	0.070	0.070	0.068	0.068	0.068	0.068	0.063		
NFB7	0.052	0.052	0.052	0.052	0.052	0.052	0.053	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.055	0.055	0.055	0.054	0.054	0.054	0.054	0.052		
NFB8	0.196	0.196	0.196	0.196	0.196	0.196	0.203	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.211	0.211	0.211	0.207	0.207	0.207	0.207	0.196		
FBSD	0.149	0.149	0.149	0.149	0.149	0.149	0.154	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.159	0.159	0.159	0.156	0.156	0.156	0.149		
Total composite emission factor (g/Veh/km)		0.0046	0.0065	0.0016	0.0115	0.0000	0.0073	0.0287	0.0345	0.0531	0.0536	0.0486	0.0471	0.0505	0.0502	0.0504	0.0499	0.0509	0.0505	0.0486	0.0214	0.0269	0.0150	0.0105	0.0214
Total composite emission factor (g/Veh/mile)		0.01	0.01	0.00	0.02	0.00	0.01	0.05	0.06	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.03	0.04	0.02	0.02	0.03

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: 2023

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	14	80	106	113	171	176	153	146	164	167	163	150	170	153	122	23	5	6
2	LGV3	1	3	4	1	2	5	8	8	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	8	10	11	38	37	35	34	38	37	38	38	36	35	38	9	4	0
4	PLB	5	3	2	2	2	3	6	6	6	12	11	10	10	11	11	11	11	11	12	10	8	8	7	6
5	LGV6	1	1	1	3	2	6	5	5	11	11	34	33	32	31	34	33	34	34	32	32	37	12	3	1
6	HGV7	0	0	0	0	0	0	5	12	154	208	184	152	140	128	159	159	161	143	123	11	10	3	0	0
7	HGV8	0	0	0	0	0	0	6	6	64	124	61	50	44	34	62	67	26	30	7	7	0	0	0	0
8	FBDD	2	1	1	0	0	0	2	2	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	5	5	5	4	5	5	5	5	4	4	4	3	4	
10	TAXI	2	2	2	2	3	5	7	41	48	51	60	68	62	57	63	64	63	64	61	59	20	3	1	
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	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	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	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	13	13	13	11	9	8	8	7
Total Flow (veh)		28	17	17	15	17	33	63	177	440	573	665	647	585	543	652	658	653	586	591	424	393	147	76	65

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	0.003	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	
LGV3	0.015	0.014	0.014	0.014	0.014	0.014	0.015	0.020	0.021	0.021	0.021	0.017	0.017	0.017	0.018	0.017	0.021	0.021	0.021	0.021	0.021	0.015	0.015	0.015	
LGV4	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.019	0.020	0.020	0.020	0.016	0.016	0.016	0.017	0.016	0.020	0.020	0.020	0.020	0.020	0.014	0.014	0.014	
PLB	0.018	0.018	0.018	0.018	0.018	0.018	0.018	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	0.018	0.018	0.018	
LGV6	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.045	0.046	0.046	0.047	0.043	0.043	0.043	0.043	0.042	0.047	0.047	0.047	0.046	0.046	0.041	0.041	0.041	
HGV7	0.037	0.036	0.036	0.036	0.036	0.036	0.037	0.048	0.049	0.049	0.050	0.042	0.042	0.042	0.043	0.041	0.050	0.050	0.050	0.049	0.049	0.038	0.037	0.037	
HGV8	0.112	0.112	0.112	0.112	0.112	0.112	0.141	0.143	0.143	0.146	0.125	0.125	0.125	0.127	0.122	0.146	0.146	0.146	0.143	0.143	0.112	0.112	0.112		
FBDD	0.144	0.144	0.144	0.144	0.144	0.144	0.173	0.176	0.176	0.179	0.158	0.158	0.158	0.160	0.154	0.179	0.179	0.179	0.176	0.176	0.144	0.144	0.144		
MC	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006	0.004	0.004	0.004	0.005	0.004	0.006	0.006	0.006	0.006	0.006	0.004	0.004	0.004		
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	0.019	0.019	0.019	0.019	0.019	0.019	0.020	0.027	0.028	0.028	0.029	0.023	0.023	0.023	0.024	0.022	0.029	0.029	0.029	0.028	0.028	0.020	0.020	0.019	
PV5	0.031	0.031	0.031	0.031	0.031	0.031	0.032	0.041	0.042	0.042	0.043	0.035	0.035	0.035	0.035	0.034	0.043	0.043	0.043	0.042	0.042	0.032	0.032	0.031	
NFB6	0.050	0.050	0.050	0.050	0.050	0.050	0.064	0.066	0.066	0.068	0.055	0.055	0.055	0.056	0.053	0.068	0.068	0.068	0.066	0.066	0.050	0.050	0.050		
NFB7	0.042	0.041	0.041	0.041	0.041	0.041	0.042	0.052	0.053	0.053	0.054	0.047	0.047	0.047	0.048	0.046	0.054	0.054	0.054	0.053	0.053	0.043	0.042	0.042	
NFB8	0.159	0.159	0.159	0.159	0.159	0.159	0.160	0.200	0.203	0.203	0.207	0.178	0.178	0.178	0.181	0.173	0.207	0.207	0.207	0.203	0.203	0.160	0.160	0.159	
FBSD	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.152	0.154	0.154	0.156	0.138	0.138	0.138	0.140	0.135	0.156	0.156	0.156	0.154	0.154	0.126	0.126	0.126	
Total composite emission factor (g/Veh/km)		0.0583	0.0397	0.0395	0.0392	0.0325	0.0248	0.0377	0.0200	0.0472	0.0589	0.0454	0.0362	0.0362	0.0350	0.0396	0.0381	0.0463	0.0403	0.0398	0.0316	0.0311	0.0402	0.0615	0.0665
Total composite emission factor (g/Veh/mile)		0.09	0.06	0.06	0.06	0.05	0.04	0.06	0.03	0.08	0.09	0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.05	0.05	0.06	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: 2023

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	6	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	6	9	10	2	3	2	1	2	3	3	2	3	2	0	1	1	
6	HGV7	0	0	0	0	0	0	2	4	24	27	16	12	15	14	17	15	16	14	1	2	0	0	0	
7	HGV8	0	0	0	0	0	0	2	4	24	27	16	12	15	14	17	15	16	14	1	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	1	1	1	1	1	1	1	1	1	1	1	1	1	0	
10	TAXI	1	0	1	0	0	0	3	9	13	15	2	2	1	2	1	2	1	2	1	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	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	2	2	2	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	
Total Flow (veh)		5	2	2	2	0	3	21	58	120	131	58	50	53	49	56	56	54	54	22	12	5	10	4	

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	0.017	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	0.016	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	
PLB	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	
LGV6	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	
HGV7	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	
HGV8	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	
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	0.004	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	
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	0.022	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	
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	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	
NFB7	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	
NFB8	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	
FBSD	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	
Total composite emission factor (g/Veh/km)		0.0048	0.0095	0.0013	0.0095	0.0000	0.0072	0.0239	0.0294	0.0430	0.0438	0.0527	0.0494	0.0546	0.0543	0.0571	0.0527	0.0527	0.0562	0.0517	0.0174	0.0294	0.0153	0.0105	0.0189
Total composite emission factor (g/Veh/mile)		0.01	0.02	0.00	0.02	0.00	0.01	0.04	0.05	0.07	0.07	0.09	0.08	0.09	0.09	0.09	0.08	0.08	0.09	0.08	0.03	0.05	0.02	0.02	0.03

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: 2023

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	15	14	14	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		
3	LGV4	0	0	0	0	0	0	2	1	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	0	2	1	5	7	5	5	6	5	5	6	6	5	3	1	0	0		
6	HGV7	0	0	0	0	0	0	1	2	14	15	5	5	4	4	4	5	5	4	5	2	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	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	0	2	3	6	6	10	9	9	8	10	9	9	10	10	9	3	2		
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	1	1	1	1	1	1	1	1	1	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		
15	NFB8	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0		
Total Flow (veh)		2	2	0	0	0	1	13	18	59	63	60	53	49	48	56	53	53	56	58	42	23	9	3	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	0.017	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	0.016	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
PLB	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
LGV6	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
HGV7	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
HGV8	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122
FBDD	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154
MC	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
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	0.022	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
PV5	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034
NFB6	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
NFB7	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
NFB8	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
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

Total composite emission factor (g/Veh/km)	0.0013	0.0013	0.0000	0.0000	0.0000	0.0025	0.0246	0.0249	0.0453	0.0453	0.0277	0.0288	0.0274	0.0280	0.0257	0.0288	0.0288	0.0257	0.0276	0.0178	0.0184	0.0110	0.0017	0.0000
Total composite emission factor (g/Veh/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.07	0.07	0.04	0.05	0.04	0.05	0.04	0.05	0.05	0.04	0.04	0.03	0.03	0.02	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: 2023

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	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	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	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	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	
Total Flow (veh)		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	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	0.010	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	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040
LGV4	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
PLB	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
LGV6	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079
HGV7	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
HGV8	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309
FBDD	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333
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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	0.057	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
PV5	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
NFB6	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
NFB7	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
NFB8	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439
FBSD	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2843	0.2842	0.2849	0.2843	0.2848	0.2850	0.2842	0.2849	0.2846	0.2839	0.2851	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	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: 2023

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	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	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
Total Flow (veh)		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	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	0.010	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
LGV3	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040
LGV4	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
PLB	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	0.057
LGV6	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079
HGV7	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	0.146
HGV8	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309
FBDD	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333
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	0.015
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	0.057	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	0.057
PV5	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
NFB6	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	0.159
NFB7	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
NFB8	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439
FBSD	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2843	0.2842	0.2849	0.2843	0.2848	0.2850	0.2842	0.2849	0.2846	0.2839	0.2851	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.00	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: R28, Internal Road
 Year: 2023

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	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	
Total Flow (veh)		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
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	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040
LGV4	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
PLB	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
LGV6	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079
HGV7	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
HGV8	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309
FBDD	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333
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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	0.057	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
PV5	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
NFB6	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
NFB7	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
NFB8	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439
FBSD	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3089	0.3089	0.3089	0.3089	0.3089	0.3089	0.3089	0.3089	0.3089	0.3089	0.3089	0.3089	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.00	0.00	0.00	0.00

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

0414816 TMFB

Pollutant Name: PM2.5 (g/veh/km)

Speed km/hr	PC ALL	LG3 ALL	LG4 ALL	PLB ALL	LG6 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	0.036	0.034	0.052	0.073	0.134	0.284	0.178	0.306	0.012	0.000	0.053	0.092	0.147	0.103	0.404	0.266
17	0.007	0.029	0.028	0.040	0.057	0.080	0.204	0.128	0.234	0.009	0.000	0.041	0.070	0.111	0.074	0.289	0.204
18	0.006	0.029	0.027	0.038	0.056	0.076	0.196	0.123	0.227	0.008	0.000	0.040	0.067	0.107	0.071	0.279	0.198
27	0.004	0.022	0.021	0.027	0.046	0.054	0.152	0.095	0.183	0.006	0.000	0.031	0.048	0.076	0.056	0.216	0.160
28	0.004	0.022	0.021	0.026	0.046	0.052	0.149	0.093	0.180	0.006	0.000	0.030	0.046	0.073	0.055	0.211	0.157
29	0.004	0.021	0.020	0.025	0.045	0.051	0.146	0.091	0.176	0.005	0.000	0.029	0.045	0.071	0.054	0.207	0.154
30	0.004	0.021	0.020	0.025	0.044	0.049	0.142	0.089	0.173	0.005	0.000	0.028	0.043	0.069	0.053	0.202	0.151
31	0.004	0.020	0.019	0.024	0.044	0.048	0.140	0.087	0.170	0.005	0.000	0.028	0.042	0.066	0.052	0.198	0.149
32	0.004	0.020	0.019	0.023	0.043	0.047	0.137	0.086	0.167	0.005	0.000	0.027	0.041	0.064	0.051	0.194	0.146
33	0.003	0.019	0.018	0.022	0.043	0.046	0.134	0.084	0.165	0.005	0.000	0.026	0.039	0.063	0.050	0.191	0.144
34	0.003	0.019	0.018	0.022	0.042	0.045	0.132	0.083	0.162	0.005	0.000	0.026	0.038	0.061	0.049	0.187	0.142
35	0.003	0.019	0.018	0.021	0.042	0.044	0.129	0.081	0.160	0.004	0.000	0.025	0.037	0.059	0.048	0.184	0.140
36	0.003	0.018	0.017	0.021	0.041	0.043	0.127	0.080	0.157	0.004	0.000	0.024	0.036	0.058	0.047	0.180	0.137
37	0.003	0.018	0.017	0.020	0.041	0.042	0.125	0.078	0.155	0.004	0.000	0.024	0.035	0.056	0.047	0.177	0.135
38	0.003	0.017	0.016	0.020	0.041	0.041	0.123	0.077	0.153	0.004	0.000	0.023	0.035	0.055	0.046	0.174	0.134
39	0.003	0.017	0.016	0.019	0.040	0.041	0.121	0.076	0.151	0.004	0.000	0.023	0.034	0.054	0.045	0.172	0.132
40	0.003	0.017	0.016	0.019	0.040	0.040	0.119	0.075	0.149	0.004	0.000	0.022	0.033	0.053	0.045	0.169	0.130
41	0.003	0.016	0.015	0.019	0.040	0.039	0.117	0.073	0.147	0.004	0.000	0.022	0.033	0.052	0.044	0.166	0.128
42	0.003	0.016	0.015	0.018	0.039	0.039	0.115	0.072	0.145	0.004	0.000	0.021	0.032	0.051	0.043	0.164	0.127
43	0.002	0.016	0.015	0.018	0.039	0.038	0.114	0.071	0.143	0.004	0.000	0.021	0.032	0.050	0.043	0.161	0.125
44	0.002	0.015	0.015	0.018	0.039	0.037	0.112	0.070	0.141	0.004	0.000	0.021	0.031	0.049	0.042	0.159	0.124
45	0.002	0.015	0.014	0.017	0.039	0.037	0.110	0.069	0.140	0.003	0.000	0.020	0.031	0.049	0.042	0.157	0.122
50	0.002	0.014	0.013	0.017	0.038	0.035	0.103	0.065	0.133	0.003	0.000	0.018	0.029	0.046	0.039	0.147	0.116
51	0.002	0.014	0.013	0.016	0.038	0.034	0.103	0.065	0.132	0.003	0.000	0.018	0.029	0.046	0.039	0.147	0.116
52	0.002	0.013	0.013	0.016	0.037	0.034	0.103	0.065	0.132	0.003	0.000	0.018	0.029	0.046	0.039	0.147	0.116
53	0.002	0.013	0.012	0.016	0.037	0.033	0.103	0.065	0.132	0.003	0.000	0.017	0.029	0.046	0.038	0.147	0.116
54	0.002	0.013	0.012	0.016	0.037	0.033	0.103	0.065	0.132	0.003	0.000	0.017	0.029	0.045	0.038	0.147	0.116

EMFAC-HK Model (v 3.4) Key Assumptions:

Mode: EMFAC

Calendar Year 2023

Temperature and relative humidity 24 degree C, 77% (2017 average at Tuen Mun Weather Station)

Vehicle Population (external roads) Default

Vehicle Population (internal roads All HGV8 (year 2019) are of Euro V standard)

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: 2023

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	34	121	176	189	253	245	220	211	240	235	232	225	248	220	167	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	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	11	12	10	8	7	6
5	LGV6	4	2	2	3	2	7	11	17	36	38	57	53	50	48	54	53	53	54	55	50	51	20	10	6
6	HGV7	0	0	0	0	0	0	0	11	26	296	376	292	267	251	234	281	277	280	262	225	22	17	4	0
7	HGV8	0	0	0	0	0	0	0	26	61	689	875	679	624	587	545	656	646	653	611	524	52	38	10	0
8	FBDD	2	1	1	0	0	0	0	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	5	6	6	6	6	6	6	5	4	4	4
10	TAXI	9	5	6	4	5	7	16	66	90	98	100	103	93	89	101	99	98	101	104	93	77	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	13	13	11	9	8	8	7	7
Total Flow (veh)		61	33	30	24	24	47	139	360	1415	1714	1619	1516	1407	1324	1559	1534	1537	1480	1391	643	541	226	139	98

PM2.5 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	0.003	0.004	0.004	0.003	0.003	0.003	0.002	0.003	0.003	0.003	0.004	0.004	0.004	0.003	0.003	0.002	0.002	0.002
LGV3	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.019	0.022	0.022	0.019	0.016	0.016	0.015	0.016	0.016	0.019	0.021	0.020	0.017	0.017	0.014	0.014	0.013	0.013
LGV4	0.013	0.012	0.012	0.012	0.012	0.012	0.013	0.018	0.021	0.021	0.018	0.015	0.015	0.015	0.015	0.015	0.018	0.020	0.019	0.016	0.016	0.013	0.013	0.013	0.013
PLB	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.021	0.026	0.027	0.021	0.019	0.018	0.018	0.019	0.019	0.022	0.025	0.024	0.019	0.019	0.017	0.016	0.016	0.016
LGV6	0.037	0.037	0.037	0.037	0.037	0.037	0.038	0.042	0.046	0.046	0.042	0.040	0.039	0.039	0.040	0.040	0.042	0.045	0.044	0.044	0.040	0.038	0.038	0.037	0.037
HGV7	0.034	0.033	0.033	0.033	0.033	0.033	0.034	0.044	0.052	0.054	0.044	0.039	0.039	0.037	0.039	0.039	0.045	0.051	0.048	0.040	0.040	0.035	0.034	0.034	0.034
HGV8	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.129	0.149	0.152	0.129	0.117	0.115	0.112	0.117	0.117	0.132	0.146	0.140	0.119	0.119	0.103	0.103	0.103	0.103
FBDD	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.160	0.180	0.183	0.160	0.147	0.145	0.141	0.147	0.147	0.162	0.176	0.170	0.149	0.149	0.133	0.132	0.132	0.132
MC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.006	0.006	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.004	0.004	0.003	0.003	0.003	0.003
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	0.018	0.017	0.017	0.017	0.017	0.017	0.018	0.025	0.030	0.031	0.025	0.022	0.021	0.021	0.022	0.022	0.026	0.029	0.028	0.022	0.022	0.018	0.018	0.018	0.018
PV5	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.037	0.046	0.048	0.037	0.033	0.032	0.031	0.033	0.033	0.038	0.045	0.042	0.033	0.033	0.029	0.029	0.029	0.029
NFB6	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.059	0.073	0.076	0.059	0.052	0.051	0.049	0.052	0.052	0.061	0.071	0.066	0.053	0.053	0.046	0.046	0.046	0.046
NFB7	0.039	0.038	0.038	0.038	0.038	0.038	0.039	0.048	0.055	0.056	0.048	0.044	0.043	0.042	0.044	0.044	0.049	0.054	0.052	0.045	0.045	0.039	0.039	0.039	0.039
NFB8	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.184	0.211	0.216	0.184	0.166	0.164	0.159	0.166	0.166	0.187	0.207	0.198	0.169	0.169	0.147	0.147	0.147	0.147
FBSD	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.140	0.157	0.160	0.140	0.128	0.127	0.124	0.128	0.128	0.142	0.154	0.149	0.130	0.130	0.116	0.116	0.116	0.116
Total composite emission factor (g/Veh/km)		0.0288	0.0216	0.0231	0.0240	0.0221	0.0182	0.0354	0.0354	0.0889	0.0946	0.0711	0.0632	0.0629	0.0605	0.0643	0.0644	0.0731	0.0796	0.0715	0.0288	0.0283	0.0314	0.0348	0.0442
Total composite emission factor (g/Veh/mile)		0.05	0.03	0.04	0.04	0.04	0.03	0.06	0.06	0.14	0.15	0.11	0.10	0.10	0.10	0.10	0.10	0.12	0.13	0.12	0.05	0.05	0.05	0.06	0.07

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: 2023

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	4	5	5	5	5	5	4	4	3	3	3	
3	LGV4	2	1	1	0	0	0	1	0	3	4	3	3	3	3	3	3	4	3	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	2		
6	HGV7	0	0	0	0	0	0	2	2	74	79	67	62	58	56	63	62	61	63	65	2	1	1	0	0
7	HGV8	0	0	0	0	0	0	6	18	416	446	378	351	327	315	359	351	344	359	373	13	6	6	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	2	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	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
Total Flow (veh)		13	7	6	3	3	3	15	32	513	549	480	440	411	397	453	440	432	453	473	41	28	24	17	13

PM2.5 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	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	
LGV3	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	
LGV4	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.027	0.027	0.027	0.027	0.027	
PLB	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.038	0.038	0.038	0.038	0.038	
LGV6	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.056	0.056	0.056	0.056	0.056	
HGV7	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.076	0.076	0.076	0.076	0.076	
HGV8	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.196	0.196	0.196	0.196	0.196	
FBDD	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.227	0.227	0.227	0.227	0.227	
MC	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	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	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.040	0.040	0.040	0.040	0.040	
PV5	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.067	0.067	0.067	0.067	0.067	
NFB6	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.107	0.107	0.107	0.107	0.107	
NFB7	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.071	0.071	0.071	0.071	0.071	
NFB8	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.279	0.279	0.279	0.279	0.279	
FBSD	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.198	0.198	0.198	0.198	0.198	
Total composite emission factor (g/Veh/km)		0.0212	0.0186	0.0206	0.0116	0.0116	0.0116	0.00973	0.01224	0.01775	0.01777	0.01727	0.01748	0.01744	0.01740	0.01736	0.01748	0.01745	0.01736	0.01728	0.0768	0.0600	0.0680	0.0222	0.0217
Total composite emission factor (g/Veh/mile)		0.03	0.03	0.03	0.02	0.02	0.02	0.16	0.20	0.29	0.29	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.12	0.10	0.11	0.04	0.03

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: 2023

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	31	116	168	181	236	232	207	198	225	219	210	231	207	157	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	17	33	35	58	55	51	49	56	55	56	51	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	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	0	9	24	22	297	225	205	193	178	218	215	219	199	160	20	16	3	0	0
7	HGV8	0	0	0	0	0	0	20	43	273	429	301	273	260	230	297	295	309	252	151	39	32	4	0	0	
8	FBDD	2	1	1	0	0	0	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	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	15	64	86	93	95	100	90	86	96	96	95	96	90	76	33	14	4	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	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	13	13	11	9	8	8	7	7	
Total Flow (veh)		48	26	24	21	21	44	124	328	902	1165	1139	1076	996	927	1106	1094	1105	1027	918	602	513	202	122	85	

PM2.5 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	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.004	0.003	0.002	0.002	0.002	0.002	0.002
LGV3	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.018	0.019	0.019	0.019	0.015	0.015	0.016	0.016	0.016	0.019	0.021	0.020	0.016	0.015	0.014	0.014	0.013	0.013
LGV4	0.013	0.012	0.012	0.012	0.012	0.012	0.013	0.017	0.018	0.018	0.018	0.015	0.015	0.015	0.015	0.015	0.018	0.020	0.019	0.015	0.015	0.013	0.013	0.013	0.013
PLB	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.020	0.021	0.021	0.021	0.018	0.018	0.018	0.019	0.019	0.022	0.025	0.024	0.019	0.018	0.017	0.016	0.016	0.016
LGV6	0.037	0.037	0.037	0.037	0.037	0.037	0.038	0.041	0.042	0.042	0.042	0.039	0.039	0.039	0.040	0.040	0.042	0.045	0.044	0.040	0.039	0.038	0.038	0.037	0.037
HGV7	0.034	0.033	0.033	0.033	0.033	0.033	0.034	0.042	0.044	0.044	0.044	0.037	0.037	0.038	0.039	0.039	0.045	0.051	0.048	0.039	0.037	0.035	0.034	0.034	0.034
HGV8	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.125	0.129	0.129	0.129	0.112	0.112	0.114	0.117	0.117	0.132	0.146	0.140	0.117	0.112	0.103	0.103	0.103	0.103
FBDD	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.155	0.160	0.160	0.160	0.141	0.141	0.143	0.147	0.147	0.162	0.176	0.170	0.147	0.141	0.133	0.132	0.132	0.132
MC	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	0.005	0.005	0.005	0.004	0.004	0.003	0.003	0.003	0.003
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	0.018	0.017	0.017	0.017	0.017	0.017	0.018	0.024	0.025	0.025	0.021	0.021	0.021	0.021	0.022	0.022	0.026	0.029	0.028	0.022	0.021	0.018	0.018	0.018	0.018
PV5	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.035	0.037	0.037	0.037	0.031	0.031	0.032	0.033	0.033	0.038	0.045	0.042	0.033	0.031	0.029	0.029	0.029	0.029
NFB6	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.056	0.059	0.059	0.049	0.049	0.050	0.052	0.052	0.061	0.071	0.066	0.052	0.049	0.046	0.046	0.046	0.046	0.046
NFB7	0.039	0.038	0.038	0.038	0.038	0.038	0.039	0.047	0.048	0.048	0.048	0.042	0.042	0.043	0.044	0.044	0.049	0.054	0.052	0.044	0.042	0.039	0.039	0.039	0.039
NFB8	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.177	0.184	0.184	0.184	0.159	0.159	0.161	0.166	0.166	0.187	0.207	0.198	0.166	0.159	0.147	0.147	0.147	0.147
FBSD	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.135	0.140	0.140	0.140	0.124	0.124	0.125	0.128	0.128	0.142	0.154	0.149	0.128	0.124	0.116	0.116	0.116	0.116
Total composite emission factor (g/Veh/km)		0.0335	0.0248	0.0260	0.0268	0.0245	0.0191	0.0336	0.0299	0.0571	0.0649	0.0552	0.0463	0.0471	0.0465	0.0502	0.0503	0.0579	0.0603	0.0478	0.0272	0.0262	0.0309	0.0379	0.0492
Total composite emission factor (g/Veh/mile)		0.05	0.04	0.04	0.04	0.04	0.03	0.05	0.05	0.09	0.10	0.09	0.07	0.08	0.08	0.08	0.08	0.09	0.10	0.08	0.04	0.04	0.05	0.06	0.08

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: 2023

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	30	114	165	178	225	222	198	190	215	212	209	200	221	198	149	38	19	9
2	LGV3	2	4	4	2	2	7	16	25	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	17	32	34	54	52	48	46	53	52	53	52	48	48	11	5	2	
4	PLB	5	3	2	2	2	3	6	10	12	11	10	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	48	47	44	45	14	4	2	
6	HGV7	0	0	0	0	0	0	9	23	205	265	195	177	162	154	190	187	189	173	152	19	16	3	0	
7	HGV8	0	0	0	0	0	0	17	37	182	253	137	119	112	98	137	139	137	100	103	33	29	3	0	
8	FBDD	2	1	1	0	0	0	2	2	4	1	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	6	6	6	6	6	6	6	5	4	4	4	
10	TAXI	5	4	5	3	4	6	15	62	84	91	88	94	85	81	90	89	90	92	85	71	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	
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	
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	
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	
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	
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	
Total Flow (veh)		40	25	23	21	21	44	120	315	785	948	913	868	798	748	892	884	877	823	831	571	487	181	102	71

Description	PM2.5 emission factor (g/Veh/km, EMFAC Veh categories)																								
	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	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	
LGV3	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.019	0.019	0.019	0.019	0.016	0.016	0.016	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.014	0.014	0.013	
LGV4	0.013	0.012	0.012	0.012	0.012	0.012	0.013	0.018	0.018	0.018	0.018	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.013	0.013	0.013		
PLB	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.021	0.022	0.022	0.022	0.018	0.018	0.018	0.019	0.018	0.018	0.018	0.018	0.018	0.017	0.016	0.016		
LGV6	0.037	0.037	0.037	0.037	0.037	0.037	0.038	0.042	0.042	0.042	0.043	0.039	0.039	0.039	0.040	0.039	0.043	0.043	0.043	0.042	0.042	0.038	0.038		
HGV7	0.034	0.033	0.033	0.033	0.033	0.033	0.034	0.044	0.045	0.045	0.046	0.039	0.039	0.039	0.039	0.037	0.046	0.046	0.046	0.045	0.045	0.035	0.034		
HGV8	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.129	0.132	0.132	0.134	0.115	0.115	0.115	0.117	0.112	0.134	0.134	0.134	0.132	0.132	0.103	0.103		
FBDD	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.160	0.162	0.162	0.165	0.145	0.145	0.145	0.147	0.141	0.165	0.165	0.165	0.162	0.162	0.133	0.132		
MC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.003	0.003		
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	0.018	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	0.021	0.026	0.026	0.026	0.026	0.026	0.018	0.018		
PV5	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.037	0.038	0.038	0.039	0.032	0.032	0.033	0.031	0.039	0.039	0.039	0.038	0.038	0.029	0.029			
NFB6	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.059	0.061	0.061	0.063	0.051	0.051	0.052	0.049	0.063	0.063	0.063	0.061	0.061	0.046	0.046			
NFB7	0.039	0.038	0.038	0.038	0.038	0.038	0.039	0.048	0.049	0.049	0.050	0.043	0.043	0.044	0.042	0.050	0.050	0.050	0.049	0.049	0.039	0.039			
NFB8	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.184	0.187	0.187	0.191	0.164	0.164	0.166	0.159	0.191	0.191	0.191	0.187	0.187	0.147	0.147			
FBSD	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.140	0.142	0.142	0.144	0.127	0.127	0.127	0.128	0.124	0.144	0.144	0.144	0.142	0.142	0.116	0.116		
Total composite emission factor (g/Veh/km)		0.0382	0.0257	0.0271	0.0268	0.0245	0.0191	0.0321	0.0295	0.0505	0.0552	0.0455	0.0371	0.0375	0.0366	0.0398	0.0383	0.0462	0.0426	0.0419	0.0303	0.0311	0.0327	0.0432	0.0570
Total composite emission factor (g/Veh/mile)		0.06	0.04	0.04	0.04	0.04	0.03	0.05	0.025	0.08	0.09	0.07	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.05	0.05	0.05	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 TM7_Siu Lang Shui Road
 Year: 2023

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	2	5	11	13	9	7	7	9	7	7	9	7	9	7	2	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	1	3	6	7	5	4	4	4	5	4	4	5	5	3	2	0	0	
7	HGV8	0	0	0	0	0	0	3	20	37	40	28	25	24	23	28	25	24	28	28	20	8	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	0	0	0	0	0	0	2	4	8	10	6	4	4	4	6	4	6	6	4	1	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	
Total Flow (veh)		0	0	0	0	0	0	8	32	67	75	49	41	40	39	49	41	40	49	49	35	13	1	0	0

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

Description	Hour																								
	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	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	0.017
LGV4	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	0.016
PLB	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	0.019
LGV6	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040
HGV7	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	0.041
HGV8	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121
FBDD	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	0.151
MC	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	0.004
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	0.023	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	0.023
PV5	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034
NFB6	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	0.054
NFB7	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	0.045
NFB8	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172
FBSD	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0511	0.0797	0.0725	0.0702	0.0740	0.0785	0.0774	0.0763	0.0740	0.0785	0.0774	0.0740	0.0735	0.0810	0.1208	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.13	0.12	0.11	0.12	0.13	0.12	0.12	0.12	0.13	0.12	0.12	0.12	0.12	0.13	0.19	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: 2023

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	2	3	2	1	1	1	2	0	1	1	2	1	0	1	0	
2	LGV3	0	0	0	0	0	0	0	0	1	0	1	0	1	1	1	0	1	1	1	1	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		
4	PLB	0	0	0	0	0	0	0	0	2	2	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		
6	HGV7	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	1	2	5	2	3	2	2	2	3	2	2	2	1	1	1		
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	1	0	1	0	1	1	0	0	1	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		
Total Flow (veh)		0	0	0	0	0	0	1	2	11	12	5	5	4	5	5	4	5	4	5	4	1	2	0	

Description	PM2.5 emission factor (g/Veh/km, EMFAC Veh categories)																							
	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	0.002	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	0.016	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	
LGV4	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	
PLB	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	
LGV6	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	
HGV7	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	
HGV8	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	
FBDD	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	
MC	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	
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	0.021	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	
NFB6	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	
NFB7	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	
NFB8	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	
FBSD	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	

Total composite emission factor (g/Veh/km)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1136	0.1136	0.0581	0.0554	0.0495	0.0686	0.0613	0.0491	0.0495	0.0852	0.0491	0.0613	0.0495	0.0329	0.1136	0.0580	0.0000	0.0000
Total composite emission factor (g/Veh/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.18	0.09	0.09	0.08	0.11	0.10	0.08	0.08	0.14	0.08	0.10	0.08	0.05	0.18	0.09	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: 2023

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	2	5	13	16	11	8	8	11	7	8	10	11	8	2	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	1	3	6	7	5	4	4	5	4	5	5	5	3	2	0	0	0	
7	HGV8	0	0	0	0	0	0	4	20	42	45	30	28	26	25	30	28	26	30	16	9	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	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	2	4	8	10	6	5	4	5	6	5	8	6	5	1	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	NFB8	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	
Total Flow (veh)		0	0	0	0	0	0	9	32	78	87	54	46	44	44	54	45	45	53	54	34	14	3	0	0

PM2.5 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	0.017	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	0.016	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
PLB	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
LGV6	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
HGV7	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
HGV8	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
FBDD	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
MC	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
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	0.055	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	0.046	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
NFB8	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174
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
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0598	0.0811	0.0722	0.0698	0.0733	0.0792	0.0776	0.0748	0.0733	0.0809	0.0759	0.0746	0.0733	0.0631	0.0852	0.0828	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.10	0.13	0.12	0.11	0.12	0.13	0.13	0.12	0.12	0.13	0.12	0.12	0.12	0.10	0.14	0.13	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: 2023

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	2	5	13	16	11	8	8	8	11	7	8	10	11	8	2	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	
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	1	3	6	7	5	4	4	5	4	4	5	5	5	3	2	0	0	
7	HGV8	0	0	0	0	0	0	4	20	42	45	30	28	26	25	30	28	26	30	30	16	9	2	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	2	4	8	10	6	5	4	5	6	5	6	6	6	5	1	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	
Total Flow (veh)		0	0	0	0	0	0	9	32	78	87	54	46	44	44	54	45	45	53	54	34	14	3	0	

PM2.5 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	0.017	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	0.016	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	
PLB	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	
LGV6	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	
HGV7	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	
HGV8	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	
FBDD	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	
MC	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	
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	0.055	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	0.046	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	
NFB8	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	
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	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0598	0.0811	0.0722	0.0698	0.0733	0.0792	0.0776	0.0748	0.0733	0.0809	0.0759	0.0746	0.0733	0.0631	0.0852	0.0828	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.13	0.12	0.11	0.12	0.13	0.13	0.12	0.12	0.13	0.12	0.12	0.12	0.10	0.14	0.13	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: 2023

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	24	100	138	147	197	199	175	168	188	190	186	174	194	175	135	27	11	7
2	LGV3	2	4	4	2	2	6	13	20	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	15	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	12	25	26	43	41	39	37	42	41	42	42	41	39	40	14	4	2
6	HGV7	0	0	0	0	0	0	8	18	192	250	185	169	159	146	180	179	181	163	142	14	13	3	0	0
7	HGV8	0	0	0	0	0	0	9	12	102	166	82	67	63	52	83	87	87	46	49	10	10	0	0	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	11	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	4	3	3	2	3	5	12	53	67	72	72	79	72	67	74	75	74	74	76	71	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	13	13	13	11	9	8	8	7
Total Flow (veh)		35	21	19	17	17	37	97	253	619	767	783	750	687	640	764	767	762	696	703	488	428	161	89	69

PM2.5 emission factor (q/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	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002
LGV3	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.019	0.019	0.019	0.016	0.016	0.016	0.016	0.015	0.015	0.019	0.019	0.019	0.019	0.019	0.014	0.014	0.013	0.013
LGV4	0.013	0.012	0.012	0.012	0.012	0.012	0.013	0.018	0.018	0.018	0.018	0.015	0.015	0.015	0.015	0.015	0.018	0.018	0.018	0.018	0.018	0.013	0.013	0.013	0.013
PLB	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.021	0.022	0.022	0.022	0.018	0.018	0.018	0.019	0.018	0.022	0.022	0.022	0.022	0.022	0.017	0.016	0.016	0.016
LGV6	0.037	0.037	0.037	0.037	0.037	0.037	0.038	0.042	0.042	0.042	0.043	0.039	0.039	0.039	0.040	0.039	0.043	0.043	0.043	0.042	0.042	0.038	0.038	0.037	0.037
HGV7	0.034	0.033	0.033	0.033	0.033	0.033	0.034	0.044	0.045	0.045	0.046	0.039	0.039	0.039	0.039	0.037	0.046	0.046	0.046	0.045	0.045	0.035	0.034	0.034	0.034
HGV8	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.129	0.132	0.132	0.134	0.115	0.115	0.115	0.117	0.112	0.134	0.134	0.134	0.132	0.132	0.103	0.103	0.103	0.103
FBDD	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.160	0.162	0.162	0.162	0.165	0.145	0.145	0.145	0.147	0.141	0.165	0.165	0.165	0.162	0.162	0.133	0.132	0.132
MC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.003	0.003	0.003	0.003
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	0.018	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	0.021	0.026	0.026	0.026	0.026	0.026	0.018	0.018	0.018	0.018
PV5	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.037	0.038	0.038	0.039	0.032	0.032	0.032	0.033	0.031	0.039	0.039	0.039	0.039	0.038	0.038	0.029	0.029	0.029
NFB6	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.059	0.061	0.061	0.063	0.051	0.051	0.051	0.052	0.049	0.063	0.063	0.063	0.061	0.061	0.046	0.046	0.046	0.046
NFB7	0.039	0.038	0.038	0.038	0.038	0.038	0.039	0.048	0.049	0.049	0.050	0.043	0.043	0.043	0.044	0.042	0.050	0.050	0.050	0.049	0.049	0.039	0.039	0.039	0.039
NFB8	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.184	0.187	0.187	0.191	0.164	0.164	0.164	0.166	0.159	0.191	0.191	0.191	0.187	0.187	0.147	0.147	0.147	0.147
FBSD	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.140	0.142	0.142	0.144	0.127	0.127	0.127	0.128	0.124	0.144	0.144	0.144	0.142	0.142	0.116	0.116	0.116	0.116
Total composite emission factor (q/Veh/km)		0.0435	0.0304	0.0326	0.0327	0.0299	0.0208	0.0298	0.0221	0.0448	0.0514	0.0422	0.0338	0.0343	0.0333	0.0369	0.0355	0.0431	0.0384	0.0377	0.0278	0.0282	0.0347	0.0493	0.0586
Total composite emission factor (q/Veh/mile)		0.07	0.05	0.05	0.05	0.05	0.03	0.05	0.04	0.07	0.08	0.07	0.05	0.06	0.05	0.06	0.06	0.07	0.06	0.06	0.04	0.05	0.06	0.08	0.09

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: 2023

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	13	14	16	15	15	16	15	12	10	8	2	
2	LGV3	0	0	0	0	0	1	3	5	8	8	7	6	7	7	7	7	7	6	5	0	0	0		
3	LGV4	0	0	0	0	0	1	2	6	6	6	5	5	6	6	5	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	LGV8	0	0	0	0	0	1	2	6	6	6	5	5	6	6	5	6	6	5	5	0	0	0		
6	HGV7	0	0	0	0	0	0	2	7	8	5	4	4	4	5	4	4	5	5	2	1	0	0		
7	HGV8	0	0	0	0	0	0	4	5	38	42	25	24	23	21	24	24	24	24	7	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	5	9	9	10	10	9	9	10	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		
Total Flow (veh)		5	4	4	4	4	7	14	30	88	94	76	72	67	64	74	72	70	74	74	49	45	17	13	2

PM2.5 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	0.004
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	0.020
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	0.019
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	0.024
LGV8	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	0.044
HGV7	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	0.048
HGV8	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	0.140
FBDD	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170
MC	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	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	0.028	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	0.028
PV5	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	0.042
NFB6	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
NFB7	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	0.052
NFB8	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
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	0.149
Total composite emission factor (g/Veh/km)	0.0029	0.0027	0.0018	0.0027	0.0027	0.0134	0.0497	0.0351	0.0708	0.0727	0.0567	0.0571	0.0581	0.0564	0.0563	0.0571	0.0579	0.0563	0.0563	0.0319	0.0423	0.0103	0.0022	0.0036	
Total composite emission factor (g/Veh/mile)	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.06	0.11	0.12	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.05	0.07	0.02	0.00	0.01	

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: 2023

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	2	0	
3	LGV4	0	0	0	0	0	0	4	7	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	7	14	15	9	8	7	6	8	8	8	8	9	7	3	2	1	
6	HGV7	0	0	0	0	0	0	3	6	38	42	21	17	19	18	21	20	20	20	19	3	3	0	0	
7	HGV8	0	0	0	0	0	0	3	6	38	42	21	17	19	18	21	20	20	20	19	3	3	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	1	0	
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	
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	
Total Flow (veh)		7	4	2	2	0	4	34	76	179	194	118	103	102	97	112	109	109	110	112	64	35	14	13	4

PM2.5 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	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	
LGV3	0.018	0.018	0.018	0.018	0.018	0.018	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.020	0.020	0.020	0.020	0.019	0.019	0.019	0.019	0.018	
LGV4	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	0.019	0.019	0.019	0.019	0.018	0.018	0.018	0.018	0.017	
PLB	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	0.023	0.022	0.022	0.022	0.022	0.021	
LGV6	0.041	0.041	0.041	0.041	0.041	0.041	0.042	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	0.041	
HGV7	0.043	0.043	0.043	0.043	0.043	0.043	0.045	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	0.043	
HGV8	0.127	0.127	0.127	0.127	0.127	0.127	0.132	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	0.127	
FBDD	0.157	0.157	0.157	0.157	0.157	0.157	0.162	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.157	
MC	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.004	
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	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.024	
PV5	0.036	0.036	0.036	0.036	0.036	0.036	0.038	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.036	
NFB6	0.058	0.058	0.058	0.058	0.058	0.058	0.061	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	0.058	
NFB7	0.047	0.047	0.047	0.047	0.047	0.047	0.049	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	0.047	
NFB8	0.180	0.180	0.180	0.180	0.180	0.180	0.187	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.180	
FBSD	0.137	0.137	0.137	0.137	0.137	0.137	0.142	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.146	0.146	0.146	0.144	0.144	0.144	0.144	0.137	
Total composite emission factor (g/Veh/km)		0.0043	0.0061	0.0015	0.0106	0.0000	0.0068	0.0264	0.0317	0.0489	0.0493	0.0447	0.0433	0.0465	0.0462	0.0463	0.0459	0.0469	0.0465	0.0447	0.0196	0.0247	0.0138	0.0096	0.0197
Total composite emission factor (g/Veh/mile)		0.01	0.01	0.00	0.02	0.00	0.01	0.04	0.05	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.03	0.04	0.02	0.02	0.03

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: 2023

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	14	80	106	113	171	176	153	146	164	167	163	150	170	153	122	23	5	6	
2	LGV3	1	3	4	1	2	5	8	8	20	24	44	43	40	38	43	41	43	43	40	50	15	4	3		
3	LGV4	1	1	1	3	2	6	5	8	10	11	38	37	35	34	38	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	5	11	11	34	33	32	31	34	33	34	34	32	32	37	12	3	1	
6	HGV7	0	0	0	0	0	0	0	0	12	154	208	164	150	140	128	159	159	161	143	123	11	10	3	0	0
7	HGV8	0	0	0	0	0	0	6	6	64	124	61	50	44	34	62	67	67	26	30	7	7	0	0	0	
8	FBDD	2	1	1	0	0	0	2	4	4	1	11	9	9	11	11	11	11	9	8	7	8	6	6	6	
9	MC	0	0	0	0	0	0	0	1	1	1	5	5	4	5	5	5	5	5	5	5	4	4	3	4	
10	TAXI	2	2	2	2	3	5	7	41	48	51	60	68	62	57	63	64	63	63	64	61	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	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	13	13	13	14	11	9	8	7	
Total Flow (veh)		28	17	17	15	17	33	63	177	440	573	665	647	585	543	652	658	653	586	591	424	393	147	76	65	

PM2.5 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	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002
LGV3	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.019	0.019	0.019	0.019	0.019	0.016	0.016	0.016	0.016	0.015	0.019	0.019	0.019	0.019	0.019	0.019	0.014	0.013
LGV4	0.013	0.012	0.012	0.012	0.012	0.012	0.013	0.018	0.018	0.018	0.018	0.015	0.015	0.015	0.015	0.015	0.018	0.018	0.018	0.018	0.018	0.013	0.013	0.013	0.013
PLB	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.021	0.022	0.022	0.022	0.018	0.018	0.018	0.019	0.018	0.022	0.022	0.022	0.022	0.022	0.017	0.016	0.016	0.016
LGV6	0.037	0.037	0.037	0.037	0.037	0.037	0.038	0.042	0.042	0.042	0.043	0.039	0.039	0.039	0.040	0.039	0.043	0.043	0.043	0.042	0.042	0.038	0.038	0.037	0.037
HGV7	0.034	0.033	0.033	0.033	0.033	0.033	0.034	0.044	0.045	0.045	0.046	0.039	0.039	0.039	0.039	0.037	0.046	0.046	0.046	0.045	0.045	0.035	0.034	0.034	0.034
HGV8	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.129	0.132	0.132	0.134	0.115	0.115	0.115	0.117	0.112	0.134	0.134	0.134	0.132	0.132	0.103	0.103	0.103	0.103
FBDD	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.160	0.162	0.162	0.165	0.145	0.145	0.145	0.147	0.141	0.165	0.165	0.165	0.162	0.162	0.133	0.132	0.132	0.132
MC	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.003	0.003	0.003	0.003
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	0.018	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	0.021	0.026	0.026	0.026	0.026	0.026	0.018	0.018	0.018	0.018
PV5	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.037	0.038	0.038	0.039	0.032	0.032	0.032	0.033	0.031	0.039	0.039	0.039	0.039	0.038	0.038	0.029	0.029	0.029
NFB6	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.059	0.061	0.061	0.063	0.051	0.051	0.051	0.052	0.049	0.063	0.063	0.063	0.061	0.061	0.046	0.046	0.046	0.046
NFB7	0.039	0.038	0.038	0.038	0.038	0.038	0.039	0.048	0.049	0.049	0.050	0.043	0.043	0.043	0.044	0.042	0.050	0.050	0.050	0.049	0.049	0.039	0.039	0.039	0.039
NFB8	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.184	0.187	0.187	0.191	0.164	0.164	0.164	0.166	0.159	0.191	0.191	0.191	0.187	0.187	0.147	0.147	0.147	0.147
FBSD	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.140	0.142	0.142	0.144	0.127	0.127	0.127	0.128	0.124	0.144	0.144	0.144	0.142	0.142	0.116	0.116	0.116	0.116
Total composite emission factor (g/Veh/km)		0.0536	0.0365	0.0363	0.0361	0.0299	0.0228	0.0347	0.0185	0.0435	0.0524	0.0418	0.0333	0.0333	0.0322	0.0364	0.0351	0.0426	0.0371	0.0366	0.0290	0.0286	0.0370	0.0566	0.0612
Total composite emission factor (g/Veh/mile)		0.09	0.06	0.06	0.06	0.05	0.04	0.06	0.03	0.07	0.08	0.07	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.05	0.05	0.06	0.09	0.10	0.10

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: 2023

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	6	9	10	3	4	3	2	3	4	3	4	3	1	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	6	9	10	2	3	2	1	2	3	3	2	3	2	0	1	1	
6	HGV7	0	0	0	0	0	0	2	4	24	27	16	12	15	14	17	15	16	14	1	2	0	0		
7	HGV8	0	0	0	0	0	0	2	4	24	27	16	12	15	14	17	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	0	1	1	1	1	1	1	1	1	1	1	1	1		
10	TAXI	1	0	1	0	0	0	3	9	13	15	2	2	1	2	1	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	0	2	2	2	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	0	0	0		
15	NFB8	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	0	0	0		
16	FBSB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total Flow (veh)		5	2	2	2	0	3	21	58	120	131	58	50	53	49	56	56	56	54	54	22	12	5	10	4

PM2.5 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	0.015	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	
LGV4	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	
PLB	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	
LGV6	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	
HGV7	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	
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	0.140	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	0.003	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	
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	0.049	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	
NFB7	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	
NFB8	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	0.157	
FBSB	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	
Total composite emission factor (g/Veh/km)		0.0044	0.0087	0.0012	0.0087	0.0000	0.0066	0.0220	0.0270	0.0396	0.0401	0.0485	0.0454	0.0502	0.0499	0.0525	0.0485	0.0485	0.0517	0.0475	0.0160	0.0270	0.0140	0.0096	0.0174
Total composite emission factor (g/Veh/mile)		0.01	0.01	0.00	0.01	0.00	0.01	0.04	0.04	0.06	0.06	0.08	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.03	0.04	0.02	0.02	0.03

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: 2023

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	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	8	6	3	2	0	
3	LGV4	0	0	0	0	0	0	2	1	5	5	7	5	5	5	6	5	5	6	6	5	4	1	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	1	5	5	7	5	5	5	6	5	5	6	6	5	3	1	0	
6	HGV7	0	0	0	0	0	0	1	2	14	15	5	5	4	4	4	5	5	4	5	2	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	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	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	0	1	1	1	1	1	1	1	1	1	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		
15	NFB8	0	0	0	0	0	0	0	0	0	0	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		
Total Flow (veh)		2	2	0	0	0	1	13	18	59	63	60	53	49	48	56	53	53	56	58	42	23	9	3	0

PM2.5 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	
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	0.015	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	
LGV4	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	
PLB	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	
LGV6	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	
HGV7	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	
HGV8	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	
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	0.004	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	
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	0.031	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	0.049	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	
NFB7	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	
NFB8	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	
FBSD	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	0.124	
Total composite emission factor (g/Veh/km)		0.0012	0.0012	0.0000	0.0000	0.0000	0.0023	0.0226	0.0229	0.0417	0.0417	0.0255	0.0265	0.0252	0.0258	0.0237	0.0265	0.0265	0.0237	0.0254	0.0164	0.0169	0.0101	0.0015	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.07	0.07	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.00	0.00

Appendix A3 - Total Traffic Emissions in Year 2019 and 2023 within the Study Area

TMFB
NOx

Hour	Scenarios		Year with the Highest Total Emissions
	Year 2019	Year 2023	
	Total NOx emissions for all identified roads (g)	Total NOx emissions for all identified roads (g)	
0000-0100	81.0	62.3	2019
0100-0200	35.4	27.3	2019
0200-0300	34.5	26.7	2019
0300-0400	31.7	24.4	2019
0400-0500	29.4	22.5	2019
0500-0600	49.8	39.3	2019
0600-0700	133.2	175.9	2023
0700-0800	928.9	943.9	2023
0800-0900	4677.2	3818.5	2019
0900-1000	6567.0	5253.8	2019
1000-1100	5656.3	4478.4	2019
1100-1200	4969.3	3879.4	2019
1200-1300	4801.6	3699.2	2019
1300-1400	4429.3	3431.7	2019
1400-1500	5255.6	4104.7	2019
1500-1600	5158.7	4013.1	2019
1600-1700	5600.2	4458.0	2019
1700-1800	5378.5	4245.6	2019
1800-1900	3899.1	3236.1	2019
1900-2000	1454.0	1349.7	2019
2000-2100	1182.3	1125.4	2019
2100-2200	793.4	742.7	2019
2200-2300	685.7	659.4	2019
2300-0000	197.2	151.6	2019
Total:	62029.3	49969.5	2019

PM10

Hour	Scenarios		Year with the Highest Total Emissions
	Year 2019	Year 2023	
	Total PM10 emissions for all identified roads (g)	Total PM10 emissions for all identified roads (g)	
0000-0100	2.6	2.5	2019
0100-0200	1.1	1.0	2019
0200-0300	1.0	1.0	2019
0300-0400	1.0	0.9	2019
0400-0500	0.9	0.8	2019
0500-0600	1.5	1.3	2019
0600-0700	4.2	7.0	2023
0700-0800	21.3	27.3	2023
0800-0900	147.0	137.5	2019
0900-1000	212.1	193.2	2019
1000-1100	181.5	162.1	2019
1100-1200	158.5	140.0	2019
1200-1300	153.3	133.1	2019
1300-1400	140.7	122.7	2019
1400-1500	169.0	148.9	2019
1500-1600	165.4	145.6	2019
1600-1700	179.8	161.3	2019
1700-1800	172.1	151.7	2019
1800-1900	120.5	113.8	2019
1900-2000	38.8	42.4	2023
2000-2100	29.5	33.6	2023
2100-2200	17.4	19.8	2023
2200-2300	14.2	17.0	2023
2300-0000	6.6	6.4	2019
Total:	1939.9	1770.9	2019

PM2.5

Hour	Scenarios		Year with the Highest Total Emissions
	Year 2019	Year 2023	
	Total PM2.5 emissions for all identified roads (g)	Total PM2.5 emissions for all identified roads (g)	
0000-0100	2.4	2.3	2019
0100-0200	1.0	0.9	2019
0200-0300	1.0	0.9	2019
0300-0400	0.9	0.8	2019
0400-0500	0.8	0.7	2019
0500-0600	1.4	1.2	2019
0600-0700	3.8	6.4	2023
0700-0800	19.6	25.1	2023
0800-0900	135.2	126.5	2019
0900-1000	195.1	177.8	2019
1000-1100	167.0	149.1	2019
1100-1200	145.8	128.8	2019
1200-1300	141.1	122.5	2019
1300-1400	129.5	112.9	2019
1400-1500	155.4	136.9	2019
1500-1600	152.1	134.0	2019
1600-1700	165.4	148.5	2019
1700-1800	158.3	139.6	2019
1800-1900	110.9	104.7	2019
1900-2000	35.7	39.0	2023
2000-2100	27.1	30.9	2023
2100-2200	16.0	18.3	2023
2200-2300	13.1	15.6	2023
2300-0000	6.1	5.9	2019
Total:	1784.7	1629.4	2019

Annex A3 - Configurations of Roads

Road No.	Road Name	Starting Co		Width (m)	Base Elevation (m)	Height of Road from Ground (m)	Model Height (a) (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 ²)	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
Average:			0.20	0.12

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



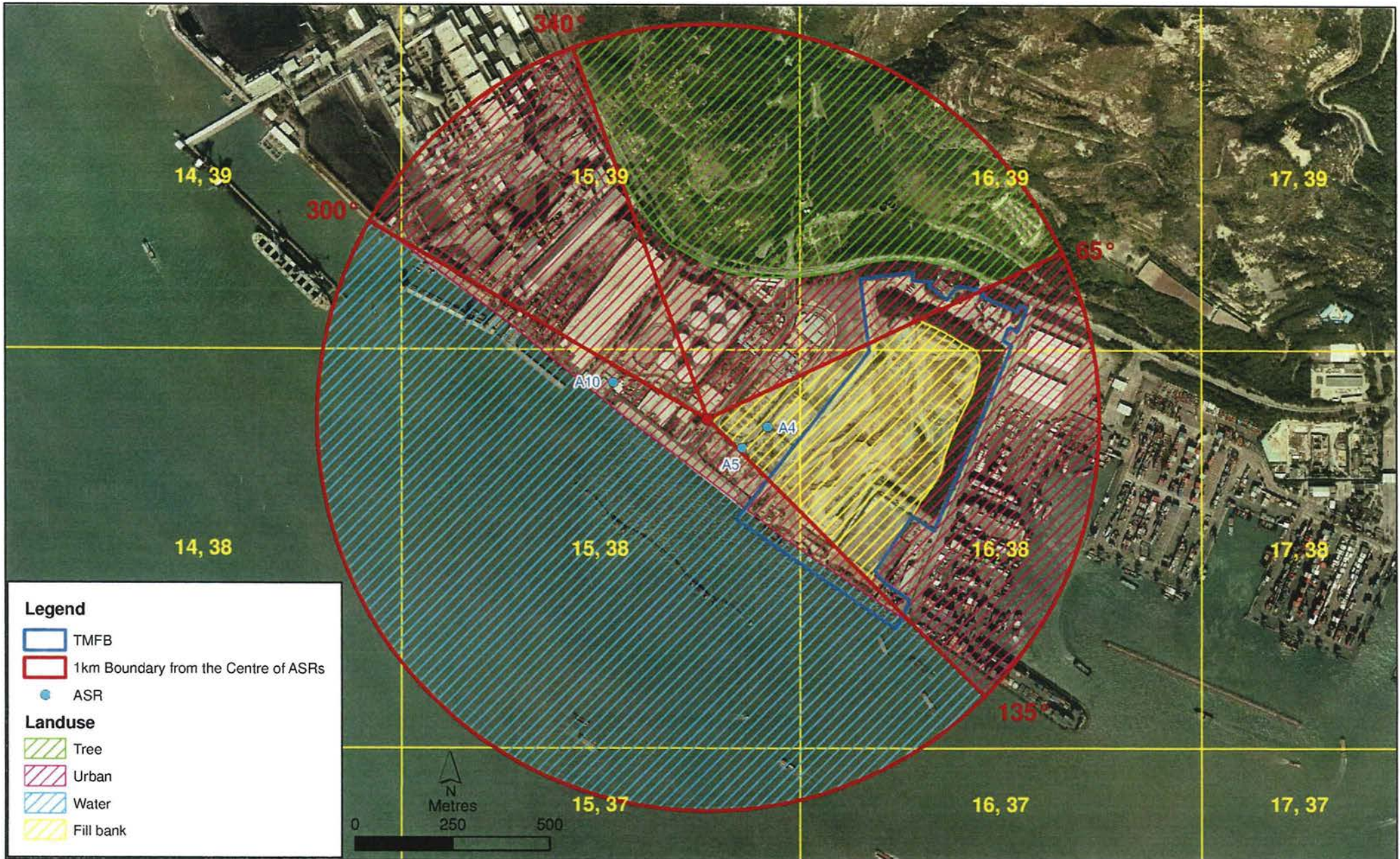
Annex A4

10km x 10km Area from TMFB Site Boundary

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Date: 16/7/2018

Environmental
Resources
Management





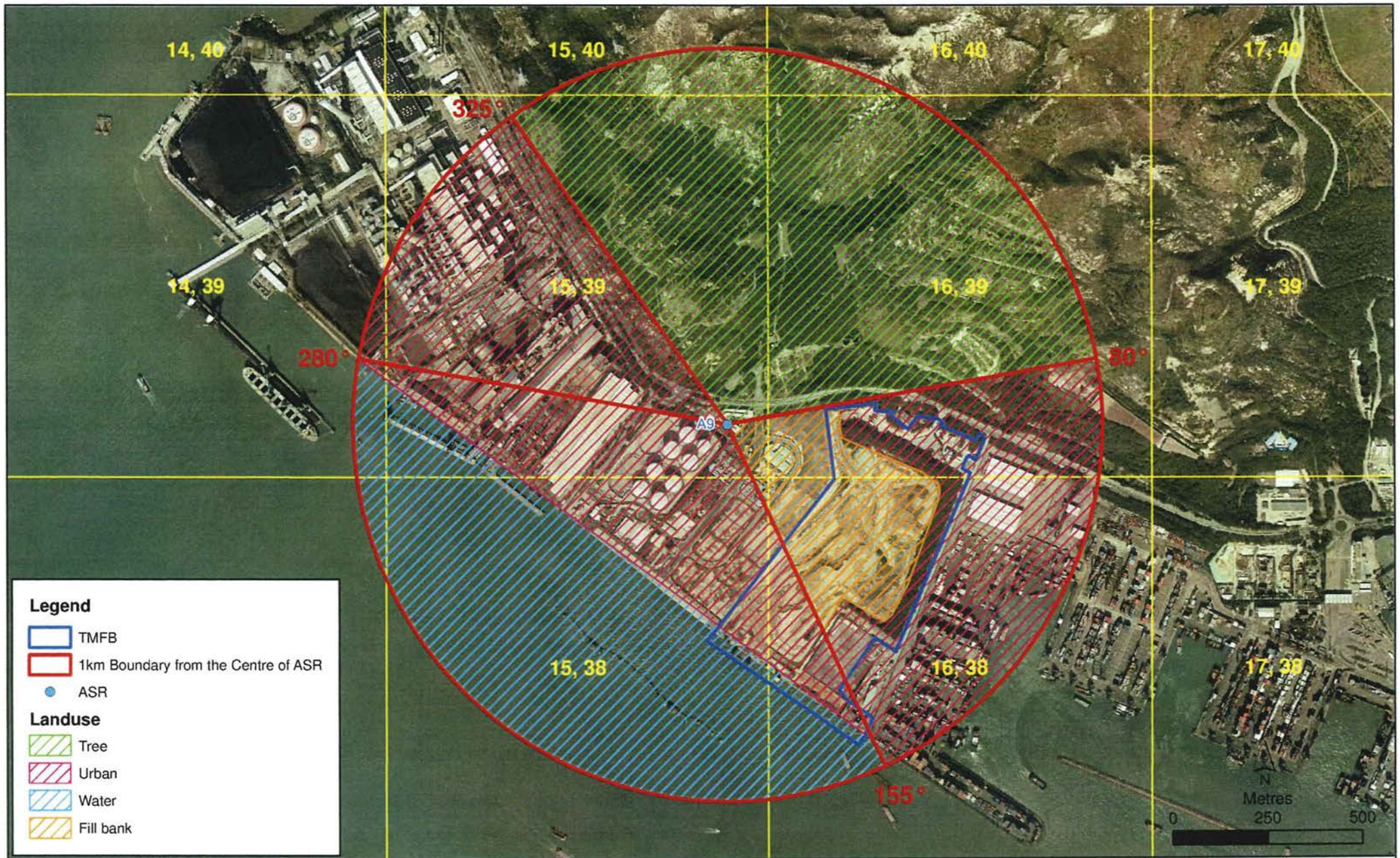
Annex A4

Sectors of Land Use for PATH Grid 15,38

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Date: 17/7/2018

Environmental
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Legend

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

Landuse

- Tree
- Urban
- Water
- Fill bank

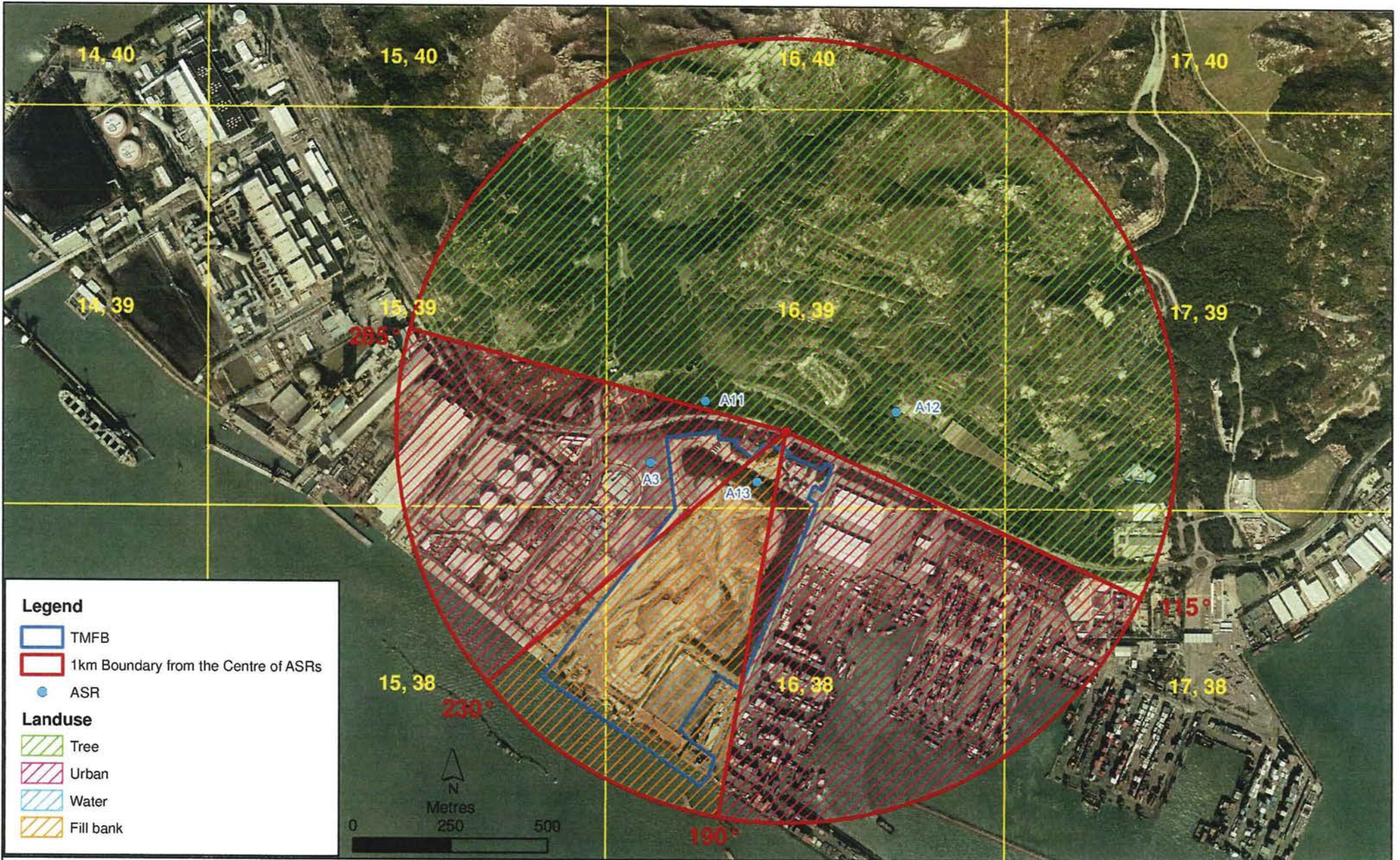
Annex A4

Sectors of Land Use for PATH Grid 15,39

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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 ($\mu\text{g m}^{-3}$)				Cumulative 10th Highest Daily Averaged RSP ($\mu\text{g m}^{-3}$)				Cumulative Annual Averaged RSP ($\mu\text{g m}^{-3}$)				Cumulative 10th Highest Daily Averaged FSP ($\mu\text{g m}^{-3}$)				Cumulative Annual Averaged FSP ($\mu\text{g m}^{-3}$)			
				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	349.03	368.10			86.80	86.73			38.83	38.73			65.30	65.24			27.33	27.26		
A4	Eco Park Tenant: South China	810816	825258	366.23	328.97			94.25	94.66			42.84	43.10			69.48	69.89			30.30	30.34		
A5	Eco Park Tenant: Chung Yue	810751	825204	453.71	418.48			92.37	92.22			42.34	42.46			68.29	68.28			29.43	29.38		
A9	Eco Park Administration Building	810791	825596	202.30	202.28			84.78	84.58			37.75	37.76			63.67	63.56			26.87	26.92		
A10	PAFF Office	810422	825373	203.60	203.54			89.61	89.57			40.82	40.79			68.00	67.93			29.42	29.40		
A11	Proposed Modern Logistics Development 1 (Indicative Location)	811154	825728	315.07	263.62	207.57	204.70	86.13	85.99	85.86	85.78	37.54	37.47	37.41	37.37	64.65	64.64	64.63	64.60	26.69	26.64	26.60	26.58
A12	Proposed Brownfield Development (Indicative Location)	811642	825702	204.65	204.65	204.65	204.65	84.77	84.76	84.75	84.74	36.07	36.07	36.07	36.07	63.68	63.67	63.66	63.65	25.64	25.63	25.63	25.63
A13	Proposed Modern Logistics Development 2 (Indicative Location)	811286	825522	328.59	324.07	234.32	204.70	86.66	86.64	86.45	86.30	38.07	38.00	37.86	37.77	64.64	64.59	64.52	64.46	26.55	26.50	26.43	26.39
AQO Criterion				500	500	500	500	100	100	100	100	50	50	50	50	75	75	75	75	35	35	35	35

Case 2

ASR	ASR Description	x	y	TSP				RSP								FSP							
				Cumulative Maximum Hourly Averaged TSP ($\mu\text{g m}^{-3}$)				Cumulative 10th Highest Daily Averaged RSP ($\mu\text{g m}^{-3}$)				Cumulative Annual Averaged RSP ($\mu\text{g m}^{-3}$)				Cumulative 10th Highest Daily Averaged FSP ($\mu\text{g m}^{-3}$)				Cumulative Annual Averaged FSP ($\mu\text{g m}^{-3}$)			
				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	349.03	368.10			86.78	86.73			38.64	38.54			65.29	65.24			27.13	27.07		
A4	Eco Park Tenant: South China	810816	825258	366.23	328.97			94.15	94.77			42.78	43.05			69.38	69.80			30.24	30.28		
A5	Eco Park Tenant: Chung Yue	810751	825204	453.71	418.48			92.31	92.14			42.29	42.42			68.27	68.18			29.39	29.34		
A9	Eco Park Administration Building	810791	825596	202.30	202.28			84.75	84.56			37.55	37.56			63.53	63.52			26.67	26.72		
A10	PAFF Office	810422	825373	203.60	203.54			89.60	89.56			40.76	40.73			68.06	68.00			29.37	29.35		
A11	Proposed Modern Logistics Development 1 (Indicative Location)	811154	825728	315.07	263.62	207.57	204.70	86.14	86.12	86.11	86.10	37.54	37.47	37.41	37.36	64.66	64.65	64.64	64.63	26.69	26.64	26.60	26.57
A12	Proposed Brownfield Development (Indicative Location)	811642	825702	204.65	204.65	204.65	204.65	84.79	84.78	84.77	84.76	36.07	36.07	36.07	36.07	63.70	63.69	63.68	63.67	25.64	25.63	25.63	25.63
A13	Proposed Modern Logistics Development 2 (Indicative Location)	811286	825522	328.59	324.07	234.32	204.70	86.58	86.47	86.24	86.09	38.07	38.00	37.86	37.77	64.46	64.39	64.31	64.25	26.55	26.50	26.43	26.39
AQO Criterion				500	500	500	500	100	100	100	100	50	50	50	50	75	75	75	75	35	35	35	35

Annex A5 - Predicted Cumulative Pollutant Concentrations at ASRs

Case 1

				NO ₂							
				Cumulative 19th Highest Hourly Averaged NO ₂ (µgm ⁻³)				Cumulative Annual Averaged NO ₂ (µgm ⁻³)			
				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	152.99	153.65			38.68	38.40		
A4	Eco Park Tenant: South China	810816	825258	145.23	145.05			38.68	38.38		
A5	Eco Park Tenant: Chung Yue	810751	825204	145.28	147.17			38.85	38.54		
A9	Eco Park Administration Building	810791	825596	140.96	141.42			37.06	36.67		
A10	PAFF Office	810422	825373	141.66	138.95			37.66	37.43		
A11	Proposed Modern Logistics Development 1 (Indicative Location)	811154	825728	155.23	154.06	150.81	149.56	39.15	38.10	37.07	36.32
A12	Proposed Brownfield Development (Indicative Location)	811642	825702	133.02	132.67	132.62	132.61	30.73	30.62	30.52	30.44
A13	Proposed Modern Logistics Development 2 (Indicative Location)	811286	825522	151.21	150.85	150.64	150.41	35.11	34.96	34.77	34.58
AQO Criterion				200	200	200	200	40	40	40	40

Case 2

				NO ₂							
				Cumulative 19th Highest Hourly Averaged NO ₂ (µgm ⁻³)				Cumulative Annual Averaged NO ₂ (µgm ⁻³)			
				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	154.36	154.58			37.96	37.68		
A4	Eco Park Tenant: South China	810816	825258	145.10	145.05			38.47	38.19		
A5	Eco Park Tenant: Chung Yue	810751	825204	145.28	147.07			38.70	38.40		
A9	Eco Park Administration Building	810791	825596	140.38	141.26			36.35	35.97		
A10	PAFF Office	810422	825373	141.66	138.95			37.47	37.24		
A11	Proposed Modern Logistics Development 1 (Indicative Location)	811154	825728	156.30	154.24	151.09	149.90	39.12	38.07	37.04	36.29
A12	Proposed Brownfield Development (Indicative Location)	811642	825702	133.91	133.25	132.83	132.61	30.73	30.62	30.52	30.44
A13	Proposed Modern Logistics Development 2 (Indicative Location)	811286	825522	150.84	150.72	150.64	151.23	35.10	34.95	34.76	34.57
AQO Criterion				200	200	200	200	40	40	40	40

Annex A5 - Predicted Cumulative Pollutant Concentrations at ASRs

Case 1

				SO ₂							
				Cumulative 4th Highest 10-minute Averaged SO ₂ (µgm ⁻³)				Cumulative 4th Highest Daily Averaged SO ₂ (µgm ⁻³)			
				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	200.36	200.16			37.04	37.04		
A4	Eco Park Tenant: South China	810816	825258	223.93	223.91			41.65	41.42		
A5	Eco Park Tenant: Chung Yue	810751	825204	220.82	220.83			41.07	41.08		
A9	Eco Park Administration Building	810791	825596	208.45	208.31			37.77	37.79		
A10	PAFF Office	810422	825373	208.74	208.64			40.66	40.66		
A11	Proposed Modern Logistics Development 1 (Indicative Location)	811154	825728	187.25	187.05	186.89	186.79	37.03	37.03	37.03	37.02
A12	Proposed Brownfield Development (Indicative Location)	811642	825702	180.54	180.49	180.45	180.42	36.99	36.99	36.99	36.99
A13	Proposed Modern Logistics Development 2 (Indicative Location)	811286	825522	205.24	204.68	204.23	203.95	37.04	37.03	37.03	37.03
AQO Criterion				500	500	500	500	125	125	125	125

Case 2

				SO ₂							
				Cumulative 4th Highest 10-minute Averaged SO ₂ (µgm ⁻³)				Cumulative 4th Highest Daily Averaged SO ₂ (µgm ⁻³)			
				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	210.31	212.81			37.00	37.00		
A4	Eco Park Tenant: South China	810816	825258	223.45	223.52			41.46	41.43		
A5	Eco Park Tenant: Chung Yue	810751	825204	220.50	220.56			41.05	41.03		
A9	Eco Park Administration Building	810791	825596	207.65	207.86			37.54	37.55		
A10	PAFF Office	810422	825373	208.67	208.59			40.62	40.60		
A11	Proposed Modern Logistics Development 1 (Indicative Location)	811154	825728	187.83	187.53	187.31	187.18	37.05	37.04	37.04	37.04
A12	Proposed Brownfield Development (Indicative Location)	811642	825702	181.99	181.92	181.86	181.80	36.99	36.99	36.99	36.99
A13	Proposed Modern Logistics Development 2 (Indicative Location)	811286	825522	215.62	215.85	215.95	215.98	37.04	37.04	37.03	37.03
AQO Criterion				500	500	500	500	125	125	125	125

Annex A6

TSP Monitoring Data

Annex A6 - 1-hour and 24-hour TSP Monitoring Data

1-hour TSP level at TM-A1

Date	TSP (μ g/m ³)	Action level	Limit Level
21/01/14	254	344	500
23/01/14	205	344	500
25/01/14	192	344	500
28/01/14	230	344	500
28/01/14	243	344	500
30/01/14	258	344	500
04/02/14	242	344	500
06/02/14	263	344	500
08/02/14	237	344	500
11/02/14	216	344	500
13/02/14	239	344	500
15/02/14	207	344	500
18/02/14	215	344	500
18/02/14	196	344	500
20/02/14	213	344	500
22/02/14	187	344	500
25/02/14	177	344	500
27/02/14	242	344	500
01/03/14	181	344	500
01/03/14	187	344	500
04/03/14	180	344	500
06/03/14	156	344	500
08/03/14	165	344	500
11/03/14	149	344	500
14/03/14	193	344	500
14/03/14	223	344	500
15/03/14	219	344	500
18/03/14	189	344	500
20/03/14	182	344	500
22/03/14	200	344	500
25/03/14	193	344	500
27/03/14	210	344	500
29/03/14	202	344	500
01/04/14	208	344	500
01/04/14	171	344	500
03/04/14	189	344	500
08/04/14	161	344	500
08/04/14	171	344	500
10/04/14	197	344	500
12/04/14	204	344	500
12/04/14	165	344	500
15/04/14	139	344	500
17/04/14	173	344	500
17/04/14	152	344	500
22/04/14	176	344	500
24/04/14	147	344	500
24/04/14	167	344	500
26/04/14	202	344	500
29/04/14	152	344	500
03/05/14	225	344	500

1-hour TSP level at TM-RA2

Date	TSP (μ g/m ³)	Action level	Limit Level
21/01/14	231	344	500
23/01/14	199	344	500
25/01/14	197	344	500
28/01/14	229	344	500
28/01/14	232	344	500
30/01/14	248	344	500
04/02/14	204	344	500
06/02/14	252	344	500
08/02/14	227	344	500
11/02/14	235	344	500
13/02/14	220	344	500
15/02/14	227	344	500
18/02/14	212	344	500
18/02/14	217	344	500
20/02/14	228	344	500
22/02/14	186	344	500
25/02/14	190	344	500
27/02/14	231	344	500
01/03/14	173	344	500
01/03/14	182	344	500
04/03/14	168	344	500
06/03/14	207	344	500
08/03/14	228	344	500
11/03/14	210	344	500
14/03/14	244	344	500
14/03/14	254	344	500
15/03/14	230	344	500
18/03/14	237	344	500
20/03/14	226	344	500
22/03/14	221	344	500
25/03/14	241	344	500
27/03/14	215	344	500
29/03/14	198	344	500
01/04/14	260	344	500
01/04/14	237	344	500
03/04/14	220	344	500
08/04/14	240	344	500
08/04/14	249	344	500
10/04/14	265	344	500
12/04/14	260	344	500
12/04/14	278	344	500
15/04/14	256	344	500
17/04/14	277	344	500
17/04/14	283	344	500
22/04/14	291	344	500
24/04/14	269	344	500
24/04/14	281	344	500
26/04/14	316	344	500
29/04/14	265	344	500
03/05/14	256	344	500

Annex A6 - 1-hour and 24-hour TSP Monitoring Data

1-hour TSP level at TM-A1

Date	TSP (μ g/m ³)	Action level	Limit Level
03/05/14	221	344	500
08/05/14	210	344	500
08/05/14	201	344	500
10/05/14	255	344	500
13/05/14	166	344	500
13/05/14	180	344	500
15/05/14	191	344	500
17/05/14	147	344	500
20/05/14	145	344	500
22/05/14	156	344	500
24/05/14	222	344	500
24/05/14	203	344	500
27/05/14	143	344	500
29/05/14	153	344	500
31/05/14	178	344	500
03/06/14	145	344	500
05/06/14	139	344	500
05/06/14	145	344	500
07/06/14	180	344	500
10/06/14	129	344	500
12/06/14	145	344	500
14/06/14	174	344	500
17/06/14	122	344	500
19/06/14	133	344	500
21/06/14	145	344	500
24/06/14	127	344	500
24/06/14	156	344	500
26/06/14	149	344	500
28/06/14	205	344	500
03/07/14	124	344	500
03/07/14	149	344	500
05/07/14	187	344	500
05/07/14	170	344	500
08/07/14	144	344	500
10/07/14	151	344	500
12/07/14	220	344	500
15/07/14	236	344	500
17/07/14	135	344	500
17/07/14	157	344	500
19/07/14	172	344	500
22/07/14	180	344	500
24/07/14	124	344	500
26/07/14	135	344	500
29/07/14	144	344	500
31/07/14	135	344	500
02/08/14	158	344	500
05/08/14	186	344	500
05/08/14	214	344	500
07/08/14	244	344	500
09/08/14	197	344	500

1-hour TSP level at TM-RA2

Date	TSP (μ g/m ³)	Action level	Limit Level
03/05/14	248	344	500
08/05/14	285	344	500
08/05/14	295	344	500
10/05/14	246	344	500
13/05/14	276	344	500
13/05/14	288	344	500
15/05/14	285	344	500
17/05/14	272	344	500
20/05/14	247	344	500
22/05/14	262	344	500
24/05/14	170	344	500
24/05/14	158	344	500
27/05/14	252	344	500
29/05/14	261	344	500
31/05/14	251	344	500
03/06/14	307	344	500
05/06/14	291	344	500
05/06/14	309	344	500
07/06/14	266	344	500
10/06/14	284	344	500
12/06/14	266	344	500
14/06/14	290	344	500
17/06/14	263	344	500
19/06/14	257	344	500
21/06/14	257	344	500
24/06/14	272	344	500
24/06/14	262	344	500
26/06/14	270	344	500
28/06/14	244	344	500
03/07/14	263	344	500
03/07/14	268	344	500
05/07/14	284	344	500
05/07/14	276	344	500
08/07/14	261	344	500
10/07/14	280	344	500
12/07/14	325	344	500
15/07/14	241	344	500
17/07/14	289	344	500
17/07/14	316	344	500
19/07/14	284	344	500
22/07/14	313	344	500
24/07/14	277	344	500
26/07/14	288	344	500
29/07/14	294	344	500
31/07/14	285	344	500
02/08/14	197	344	500
05/08/14	170	344	500
05/08/14	150	344	500
07/08/14	196	344	500
09/08/14	176	344	500

Annex A6 - 1-hour and 24-hour TSP Monitoring Data

1-hour TSP level at TM-A1

Date	TSP (μ g/m ³)	Action level	Limit Level
12/08/14	182	344	500
14/08/14	159	344	500
16/08/14	142	344	500
16/08/14	131	344	500
19/08/14	170	344	500
21/08/14	156	344	500
23/08/14	186	344	500
26/08/14	214	344	500
28/08/14	174	344	500
28/08/14	170	344	500
30/08/14	140	344	500
02/09/14	155	344	500
04/09/14	167	344	500
06/09/14	148	344	500
11/09/14	150	344	500
11/09/14	171	344	500
13/09/14	181	344	500
16/09/14	240	344	500
16/09/14	227	344	500
18/09/14	240	344	500
20/09/14	225	344	500
23/09/14	209	344	500
25/09/14	247	344	500
27/09/14	200	344	500
27/09/14	222	344	500
30/09/14	246	344	500
04/10/14	213	344	500
04/10/14	229	344	500
07/10/14	242	344	500
09/10/14	227	344	500
09/10/14	320	344	500
11/10/14	205	344	500
14/10/14	222	344	500
16/10/14	203	344	500
18/10/14	242	344	500
21/10/14	271	344	500
23/10/14	240	344	500
25/10/14	264	344	500
28/10/14	282	344	500
28/10/14	333	344	500
30/10/14	233	344	500
01/11/14	233	344	500
04/11/14	228	344	500
06/11/14	289	344	500
08/11/14	255	344	500
08/11/14	278	344	500
11/11/14	306	344	500
13/11/14	299	344	500
15/11/14	308	344	500
18/11/14	186	344	500

1-hour TSP level at TM-RA2

Date	TSP (μ g/m ³)	Action level	Limit Level
12/08/14	171	344	500
14/08/14	288	344	500
16/08/14	267	344	500
16/08/14	280	344	500
19/08/14	288	344	500
21/08/14	277	344	500
23/08/14	229	344	500
26/08/14	209	344	500
28/08/14	323	344	500
28/08/14	306	344	500
30/08/14	266	344	500
02/09/14	253	344	500
04/09/14	261	344	500
06/09/14	224	344	500
11/09/14	237	344	500
11/09/14	260	344	500
13/09/14	248	344	500
16/09/14	275	344	500
16/09/14	242	344	500
18/09/14	275	344	500
20/09/14	254	344	500
23/09/14	234	344	500
25/09/14	258	344	500
27/09/14	220	344	500
27/09/14	258	344	500
30/09/14	276	344	500
04/10/14	224	344	500
04/10/14	241	344	500
07/10/14	254	344	500
09/10/14	242	344	500
09/10/14	299	344	500
11/10/14	186	344	500
14/10/14	247	344	500
16/10/14	177	344	500
18/10/14	196	344	500
21/10/14	204	344	500
23/10/14	215	344	500
25/10/14	227	344	500
28/10/14	273	344	500
28/10/14	205	344	500
30/10/14	206	344	500
01/11/14	305	344	500
04/11/14	295	344	500
06/11/14	223	344	500
08/11/14	183	344	500
08/11/14	224	344	500
11/11/14	257	344	500
13/11/14	219	344	500
15/11/14	230	344	500
18/11/14	302	344	500

Annex A6 - 1-hour and 24-hour TSP Monitoring Data

1-hour TSP level at TM-A1

Date	TSP (μ g/m ³)	Action level	Limit Level
20/11/14	153	344	500
20/11/14	167	344	500
22/11/14	160	344	500
25/11/14	173	344	500
27/11/14	147	344	500
29/11/14	282	344	500
02/12/14	297	344	500
04/12/14	271	344	500
06/12/14	295	344	500
09/12/14	304	344	500
09/12/14	319	344	500
11/12/14	300	344	500
13/12/14	340	344	500
16/12/14	306	344	500
18/12/14	271	344	500
20/12/14	273	344	500
20/12/14	253	344	500
23/12/14	285	344	500
27/12/14	308	344	500
27/12/14	321	344	500
30/12/14	315	344	500
03/01/15	148	344	500
03/01/15	169	344	500
03/01/15	156	344	500
06/01/15	177	344	500
08/01/15	149	344	500
10/01/15	139	344	500
13/01/15	156	344	500
15/01/15	149	344	500
17/01/15	138	344	500
20/01/15	167	344	500
20/01/15	154	344	500
22/01/15	188	344	500
24/01/15	158	344	500
27/01/15	169	344	500
29/01/15	152	344	500
31/01/15	125	344	500
31/01/15	138	344	500
03/02/15	276	344	500
05/02/15	303	344	500
07/02/15	287	344	500
10/02/15	301	344	500
12/02/15	312	344	500
12/02/15	296	344	500
14/02/15	188	344	500
17/02/15	274	344	500
17/02/15	269	344	500
17/02/15	276	344	500
24/02/15	233	344	500
26/02/15	260	344	500

1-hour TSP level at TM-RA2

Date	TSP (μ g/m ³)	Action level	Limit Level
20/11/14	253	344	500
20/11/14	246	344	500
22/11/14	257	344	500
25/11/14	268	344	500
27/11/14	271	344	500
29/11/14	198	344	500
02/12/14	252	344	500
04/12/14	257	344	500
06/12/14	222	344	500
09/12/14	210	344	500
09/12/14	256	344	500
11/12/14	266	344	500
13/12/14	243	344	500
16/12/14	237	344	500
18/12/14	244	344	500
20/12/14	264	344	500
20/12/14	242	344	500
23/12/14	246	344	500
27/12/14	262	344	500
27/12/14	238	344	500
30/12/14	254	344	500
03/01/15	279	344	500
03/01/15	277	344	500
03/01/15	286	344	500
06/01/15	301	344	500
08/01/15	273	344	500
10/01/15	282	344	500
13/01/15	292	344	500
15/01/15	292	344	500
17/01/15	269	344	500
20/01/15	293	344	500
20/01/15	269	344	500
22/01/15	287	344	500
24/01/15	295	344	500
27/01/15	282	344	500
29/01/15	272	344	500
31/01/15	254	344	500
31/01/15	264	344	500
03/02/15	263	344	500
05/02/15	267	344	500
07/02/15	248	344	500
10/02/15	278	344	500
12/02/15	248	344	500
12/02/15	226	344	500
14/02/15	200	344	500
17/02/15	210	344	500
17/02/15	204	344	500
17/02/15	210	344	500
24/02/15	163	344	500
26/02/15	183	344	500

Annex A6 - 1-hour and 24-hour TSP Monitoring Data

1-hour TSP level at TM-A1

Date	TSP (μ g/m ³)	Action level	Limit Level
28/02/15	240	344	500
03/03/15	157	344	500
03/03/15	146	344	500
05/03/15	211	344	500
07/03/15	141	344	500
10/03/15	168	344	500
12/03/15	180	344	500
14/03/15	199	344	500
14/03/15	219	344	500
17/03/15	240	344	500
19/03/15	219	344	500
21/03/15	174	344	500
24/03/15	153	344	500
26/03/15	159	344	500
26/03/15	149	344	500
28/03/15	155	344	500
31/03/15	182	344	500
02/04/15	188	344	500
02/04/15	163	344	500
09/04/15	151	344	500
09/04/15	174	344	500
11/04/15	143	344	500
14/04/15	166	344	500
14/04/15	157	344	500
16/04/15	147	344	500
18/04/15	157	344	500
21/04/15	130	344	500
23/04/15	143	344	500
25/04/15	149	344	500
25/04/15	155	344	500
28/04/15	163	344	500
30/04/15	153	344	500
02/05/15	268	344	500
05/05/15	258	344	500
07/05/15	288	344	500
07/05/15	276	344	500
09/05/15	284	344	500
12/05/15	264	344	500
14/05/15	272	344	500
16/05/15	242	344	500
19/05/15	171	344	500
21/05/15	179	344	500
23/05/15	153	344	500
26/05/15	248	344	500
26/05/15	260	344	500
28/05/15	296	344	500
30/05/15	238	344	500
02/06/15	192	344	500
04/06/15	165	344	500
06/06/15	133	344	500

1-hour TSP level at TM-RA2

Date	TSP (μ g/m ³)	Action level	Limit Level
28/02/15	180	344	500
03/03/15	279	344	500
03/03/15	285	344	500
05/03/15	230	344	500
07/03/15	262	344	500
10/03/15	284	344	500
12/03/15	293	344	500
14/03/15	187	344	500
14/03/15	165	344	500
17/03/15	173	344	500
19/03/15	160	344	500
21/03/15	310	344	500
24/03/15	295	344	500
26/03/15	290	344	500
26/03/15	299	344	500
28/03/15	270	344	500
31/03/15	279	344	500
02/04/15	313	344	500
02/04/15	288	344	500
09/04/15	291	344	500
09/04/15	301	344	500
11/04/15	285	344	500
14/04/15	304	344	500
14/04/15	287	344	500
16/04/15	293	344	500
18/04/15	273	344	500
21/04/15	261	344	500
23/04/15	267	344	500
25/04/15	276	344	500
25/04/15	282	344	500
28/04/15	293	344	500
30/04/15	285	344	500
02/05/15	210	344	500
05/05/15	229	344	500
07/05/15	242	344	500
07/05/15	230	344	500
09/05/15	249	344	500
12/05/15	207	344	500
14/05/15	227	344	500
16/05/15	207	344	500
19/05/15	319	344	500
21/05/15	297	344	500
23/05/15	276	344	500
26/05/15	180	344	500
26/05/15	234	344	500
28/05/15	257	344	500
30/05/15	218	344	500
02/06/15	281	344	500
04/06/15	294	344	500
06/06/15	238	344	500

Annex A6 - 1-hour and 24-hour TSP Monitoring Data

1-hour TSP level at TM-A1

Date	TSP (μ g/m ³)	Action level	Limit Level
06/06/15	171	344	500
09/06/15	212	344	500
11/06/15	202	344	500
13/06/15	179	344	500
16/06/15	157	344	500
18/06/15	181	344	500
18/06/15	177	344	500
18/06/15	179	344	500
23/06/15	187	344	500
25/06/15	181	344	500
27/06/15	179	344	500
30/06/15	161	344	500
02/07/15	151	344	500
04/07/15	168	344	500
07/07/15	182	344	500
07/07/15	176	344	500
09/07/15	172	344	500
11/07/15	176	344	500
14/07/15	162	344	500
16/07/15	135	344	500
18/07/15	139	344	500
18/07/15	151	344	500
21/07/15	162	344	500
23/07/15	145	344	500
25/07/15	149	344	500
28/07/15	164	344	500
30/07/15	139	344	500
30/07/15	162	344	500
01/08/15	149	344	500
04/08/15	182	344	500
06/08/15	164	344	500
08/08/15	149	344	500
11/08/15	176	344	500
13/08/15	192	344	500
15/08/15	182	344	500
18/08/15	216	344	500
18/08/15	234	344	500
20/08/15	222	344	500
22/08/15	157	344	500
25/08/15	236	344	500
27/08/15	249	344	500
29/08/15	209	344	500
29/08/15	227	344	500
01/09/15	205	344	500
05/09/15	225	344	500
05/09/15	233	344	500
08/09/15	163	344	500
10/09/15	233	344	500
10/09/15	239	344	500
12/09/15	150	344	500

1-hour TSP level at TM-RA2

Date	TSP (μ g/m ³)	Action level	Limit Level
06/06/15	224	344	500
09/06/15	292	344	500
11/06/15	273	344	500
13/06/15	299	344	500
16/06/15	308	344	500
18/06/15	135	344	500
18/06/15	132	344	500
18/06/15	135	344	500
23/06/15	143	344	500
25/06/15	178	344	500
27/06/15	299	344	500
30/06/15	311	344	500
02/07/15	284	344	500
04/07/15	297	344	500
07/07/15	294	344	500
07/07/15	285	344	500
09/07/15	267	344	500
11/07/15	263	344	500
14/07/15	305	344	500
16/07/15	277	344	500
18/07/15	258	344	500
18/07/15	266	344	500
21/07/15	277	344	500
23/07/15	264	344	500
25/07/15	249	344	500
28/07/15	277	344	500
30/07/15	297	344	500
30/07/15	274	344	500
01/08/15	280	344	500
04/08/15	293	344	500
06/08/15	276	344	500
08/08/15	285	344	500
11/08/15	287	344	500
13/08/15	293	344	500
15/08/15	274	344	500
18/08/15	285	344	500
18/08/15	292	344	500
20/08/15	269	344	500
22/08/15	124	344	500
25/08/15	280	344	500
27/08/15	274	344	500
29/08/15	186	344	500
29/08/15	204	344	500
01/09/15	161	344	500
05/09/15	166	344	500
05/09/15	176	344	500
08/09/15	292	344	500
10/09/15	179	344	500
10/09/15	182	344	500
12/09/15	283	344	500

Annex A6 - 1-hour and 24-hour TSP Monitoring Data

1-hour TSP level at TM-A1

Date	TSP (μ g/m ³)	Action level	Limit Level
15/09/15	161	344	500
17/09/15	140	344	500
19/09/15	150	344	500
22/09/15	128	344	500
24/09/15	150	344	500
26/09/15	169	344	500
29/09/15	138	344	500
29/09/15	146	344	500
29/09/15	154	344	500
03/10/15	124	344	500
06/10/15	156	344	500
08/10/15	122	344	500
10/10/15	150	344	500
10/10/15	138	344	500
13/10/15	161	344	500
15/10/15	142	344	500
17/10/15	167	344	500
20/10/15	177	344	500
22/10/15	187	344	500
22/10/15	181	344	500
24/10/15	163	344	500
27/10/15	178	344	500
29/10/15	140	344	500
31/10/15	166	344	500
03/11/15	160	344	500
05/11/15	142	344	500
07/11/15	178	344	500
10/11/15	162	344	500
10/11/15	142	344	500
12/11/15	166	344	500
14/11/15	148	344	500
17/11/15	215	344	500
19/11/15	223	344	500
21/11/15	203	344	500
21/11/15	239	344	500
24/11/15	215	344	500
26/11/15	194	344	500
28/11/15	156	344	500
01/12/15	134	344	500
03/12/15	162	344	500
03/12/15	154	344	500
05/12/15	136	344	500
08/12/15	160	344	500
10/12/15	178	344	500
12/12/15	152	344	500
15/12/15	170	344	500
17/12/15	146	344	500
19/12/15	132	344	500
22/12/15	158	344	500
22/12/15	152	344	500

1-hour TSP level at TM-RA2

Date	TSP (μ g/m ³)	Action level	Limit Level
15/09/15	304	344	500
17/09/15	274	344	500
19/09/15	269	344	500
22/09/15	278	344	500
24/09/15	291	344	500
26/09/15	299	344	500
29/09/15	258	344	500
29/09/15	271	344	500
29/09/15	263	344	500
03/10/15	291	344	500
06/10/15	266	344	500
08/10/15	291	344	500
10/10/15	312	344	500
10/10/15	283	344	500
13/10/15	306	344	500
15/10/15	274	344	500
17/10/15	299	344	500
20/10/15	304	344	500
22/10/15	276	344	500
22/10/15	264	344	500
24/10/15	294	344	500
27/10/15	288	344	500
29/10/15	277	344	500
31/10/15	285	344	500
03/11/15	318	344	500
05/11/15	290	344	500
07/11/15	309	344	500
10/11/15	276	344	500
10/11/15	285	344	500
12/11/15	274	344	500
14/11/15	260	344	500
17/11/15	196	344	500
19/11/15	165	344	500
21/11/15	196	344	500
21/11/15	173	344	500
24/11/15	296	344	500
26/11/15	290	344	500
28/11/15	280	344	500
01/12/15	287	344	500
03/12/15	301	344	500
03/12/15	291	344	500
05/12/15	274	344	500
08/12/15	260	344	500
10/12/15	298	344	500
12/12/15	260	344	500
15/12/15	299	344	500
17/12/15	253	344	500
19/12/15	271	344	500
22/12/15	272	344	500
22/12/15	285	344	500

Annex A6 - 1-hour and 24-hour TSP Monitoring Data

1-hour TSP level at TM-A1

Date	TSP (μ g/m ³)	Action level	Limit Level
24/12/15	116	344	500
29/12/15	143	344	500
29/12/15	152	344	500
31/12/15	177	344	500
02/01/16	146	344	500
02/01/16	158	344	500
05/01/16	171	344	500
07/01/16	148	344	500
09/01/16	160	344	500
12/01/16	122	344	500
14/01/16	160	344	500
14/01/16	183	344	500
16/01/16	209	344	500
19/01/16	221	344	500
21/01/16	232	344	500
23/01/16	242	344	500
26/01/16	247	344	500
28/01/16	234	344	500
30/01/16	242	344	500
02/02/16	173	344	500
02/02/16	156	344	500
04/02/16	135	344	500
06/02/16	152	344	500
11/02/16	141	344	500
11/02/16	131	344	500
13/02/16	150	344	500
13/02/16	160	344	500
16/02/16	171	344	500
18/02/16	127	344	500
20/02/16	146	344	500
23/02/16	160	344	500
25/02/16	158	344	500
25/02/16	165	344	500
27/02/16	140	344	500
01/03/16	164	344	500
03/03/16	142	344	500
05/03/16	158	344	500
08/03/16	175	344	500
10/03/16	139	344	500
12/03/16	152	344	500
15/03/16	156	344	500
15/03/16	146	344	500
17/03/16	144	344	500
19/03/16	162	344	500
22/03/16	146	344	500
24/03/16	162	344	500
29/03/16	173	344	500
29/03/16	152	344	500
29/03/16	164	344	500
31/03/16	152	344	500

1-hour TSP level at TM-RA2

Date	TSP (μ g/m ³)	Action level	Limit Level
24/12/15	248	344	500
29/12/15	283	344	500
29/12/15	291	344	500
31/12/15	285	344	500
02/01/16	253	344	500
02/01/16	270	344	500
05/01/16	288	344	500
07/01/16	269	344	500
09/01/16	264	344	500
12/01/16	275	344	500
14/01/16	272	344	500
14/01/16	289	344	500
16/01/16	300	344	500
19/01/16	307	344	500
21/01/16	302	344	500
23/01/16	304	344	500
26/01/16	307	344	500
28/01/16	297	344	500
30/01/16	302	344	500
02/02/16	269	344	500
02/02/16	280	344	500
04/02/16	253	344	500
06/02/16	239	344	500
11/02/16	261	344	500
11/02/16	269	344	500
13/02/16	300	344	500
13/02/16	296	344	500
16/02/16	307	344	500
18/02/16	277	344	500
20/02/16	285	344	500
23/02/16	287	344	500
25/02/16	299	344	500
25/02/16	291	344	500
27/02/16	268	344	500
01/03/16	305	344	500
03/03/16	286	344	500
05/03/16	291	344	500
08/03/16	287	344	500
10/03/16	268	344	500
12/03/16	284	344	500
15/03/16	287	344	500
15/03/16	294	344	500
17/03/16	268	344	500
19/03/16	279	344	500
22/03/16	289	344	500
24/03/16	258	344	500
29/03/16	279	344	500
29/03/16	292	344	500
29/03/16	284	344	500
31/03/16	276	344	500

Annex A6 - 1-hour and 24-hour TSP Monitoring Data

1-hour TSP level at TM-A1

Date	TSP (μ g/m ³)	Action level	Limit Level
02/04/16	165	344	500
05/04/16	148	344	500
07/04/16	160	344	500
07/04/16	173	344	500
09/04/16	139	344	500
12/04/16	129	344	500
14/04/16	167	344	500
16/04/16	144	344	500
19/04/16	133	344	500
21/04/16	141	344	500
23/04/16	157	344	500
26/04/16	153	344	500
26/04/16	147	344	500
28/04/16	162	344	500
30/04/16	172	344	500
03/05/16	151	344	500
05/05/16	160	344	500
07/05/16	130	344	500
07/05/16	143	344	500
10/05/16	162	344	500
12/05/16	145	344	500
17/05/16	137	344	500
17/05/16	168	344	500
19/05/16	147	344	500
19/05/16	162	344	500
21/05/16	130	344	500
24/05/16	151	344	500
26/05/16	176	344	500
28/05/16	157	344	500
31/05/16	141	344	500
02/06/16	162	344	500
04/06/16	147	344	500
07/06/16	168	344	500
07/06/16	151	344	500
07/06/16	162	344	500
11/06/16	157	344	500
14/06/16	172	344	500
16/06/16	166	344	500
18/06/16	176	344	500
18/06/16	166	344	500
21/06/16	184	344	500
23/06/16	172	344	500
25/06/16	176	344	500
28/06/16	161	344	500
30/06/16	155	344	500
30/06/16	165	344	500
02/07/16	141	344	500
05/07/16	141	344	500
07/07/16	159	344	500
09/07/16	143	344	500

1-hour TSP level at TM-RA2

Date	TSP (μ g/m ³)	Action level	Limit Level
02/04/16	255	344	500
05/04/16	276	344	500
07/04/16	302	344	500
07/04/16	279	344	500
09/04/16	289	344	500
12/04/16	271	344	500
14/04/16	278	344	500
16/04/16	266	344	500
19/04/16	274	344	500
21/04/16	305	344	500
23/04/16	284	344	500
26/04/16	263	344	500
26/04/16	284	344	500
28/04/16	276	344	500
30/04/16	289	344	500
03/05/16	289	344	500
05/05/16	297	344	500
07/05/16	259	344	500
07/05/16	276	344	500
10/05/16	281	344	500
12/05/16	295	344	500
17/05/16	279	344	500
17/05/16	305	344	500
19/05/16	271	344	500
19/05/16	282	344	500
21/05/16	294	344	500
24/05/16	282	344	500
26/05/16	295	344	500
28/05/16	302	344	500
31/05/16	279	344	500
02/06/16	276	344	500
04/06/16	294	344	500
07/06/16	285	344	500
07/06/16	294	344	500
07/06/16	289	344	500
11/06/16	294	344	500
14/06/16	298	344	500
16/06/16	284	344	500
18/06/16	294	344	500
18/06/16	277	344	500
21/06/16	297	344	500
23/06/16	280	344	500
25/06/16	303	344	500
28/06/16	291	344	500
30/06/16	289	344	500
30/06/16	297	344	500
02/07/16	279	344	500
05/07/16	280	344	500
07/07/16	297	344	500
09/07/16	269	344	500

Annex A6 - 1-hour and 24-hour TSP Monitoring Data

1-hour TSP level at TM-A1

Date	TSP (μ g/m ³)	Action level	Limit Level
12/07/16	167	344	500
14/07/16	157	344	500
16/07/16	176	344	500
19/07/16	176	344	500
19/07/16	161	344	500
21/07/16	149	344	500
23/07/16	169	344	500
26/07/16	135	344	500
28/07/16	176	344	500
30/07/16	145	344	500
02/08/16	122	344	500
02/08/16	110	344	500
04/08/16	149	344	500
06/08/16	161	344	500
09/08/16	143	344	500
11/08/16	190	344	500
11/08/16	174	344	500
13/08/16	131	344	500
16/08/16	145	344	500
18/08/16	162	344	500
20/08/16	177	344	500
23/08/16	142	344	500
25/08/16	129	344	500
27/08/16	150	344	500
30/08/16	154	344	500
30/08/16	142	344	500
01/09/16	169	344	500
03/09/16	150	344	500
06/09/16	171	344	500
08/09/16	129	344	500
10/09/16	148	344	500
10/09/16	160	344	500
13/09/16	177	344	500
15/09/16	123	344	500
17/09/16	152	344	500
20/09/16	163	344	500
22/09/16	171	344	500
22/09/16	146	344	500
24/09/16	165	344	500
27/09/16	173	344	500
29/09/16	137	344	500
29/09/16	163	344	500
04/10/16	129	344	500
04/10/16	154	344	500
06/10/16	133	344	500
08/10/16	146	344	500
11/10/16	156	344	500
13/10/16	148	344	500
15/10/16	151	344	500
15/10/16	130	344	500

1-hour TSP level at TM-RA2

Date	TSP (μ g/m ³)	Action level	Limit Level
12/07/16	285	344	500
14/07/16	297	344	500
16/07/16	304	344	500
19/07/16	294	344	500
19/07/16	284	344	500
21/07/16	272	344	500
23/07/16	287	344	500
26/07/16	285	344	500
28/07/16	292	344	500
30/07/16	265	344	500
02/08/16	252	344	500
02/08/16	237	344	500
04/08/16	269	344	500
06/08/16	285	344	500
09/08/16	272	344	500
11/08/16	289	344	500
11/08/16	299	344	500
13/08/16	267	344	500
16/08/16	274	344	500
18/08/16	301	344	500
20/08/16	282	344	500
23/08/16	270	344	500
25/08/16	279	344	500
27/08/16	292	344	500
30/08/16	269	344	500
30/08/16	284	344	500
01/09/16	291	344	500
03/09/16	277	344	500
06/09/16	289	344	500
08/09/16	297	344	500
10/09/16	277	344	500
10/09/16	299	344	500
13/09/16	269	344	500
15/09/16	282	344	500
17/09/16	297	344	500
20/09/16	309	344	500
22/09/16	311	344	500
22/09/16	303	344	500
24/09/16	286	344	500
27/09/16	272	344	500
29/09/16	292	344	500
29/09/16	274	344	500
04/10/16	269	344	500
04/10/16	279	344	500
06/10/16	292	344	500
08/10/16	274	344	500
11/10/16	282	344	500
13/10/16	292	344	500
15/10/16	280	344	500
15/10/16	290	344	500

Annex A6 - 1-hour and 24-hour TSP Monitoring Data

1-hour TSP level at TM-A1

Date	TSP (μ g/m ³)	Action level	Limit Level
18/10/16	155	344	500
20/10/16	140	344	500
22/10/16	170	344	500
25/10/16	127	344	500
27/10/16	142	344	500
27/10/16	129	344	500
29/10/16	146	344	500
01/11/16	151	344	500
03/11/16	130	344	500
06/11/16	140	344	500
08/11/16	163	344	500
10/11/16	155	344	500
12/11/16	130	344	500
15/11/16	144	344	500
15/11/16	155	344	500
17/11/16	140	344	500
19/11/16	155	344	500
22/11/16	121	344	500
24/11/16	140	344	500
26/11/16	151	344	500
26/11/16	140	344	500
29/11/16	155	344	500
01/12/16	153	344	500
03/12/16	170	344	500
06/12/16	140	344	500
08/12/16	153	344	500
08/12/16	146	344	500
10/12/16	170	344	500
13/12/16	159	344	500
15/12/16	139	344	500
17/12/16	154	344	500
20/12/16	126	344	500
22/12/16	143	344	500
24/12/16	173	344	500
29/12/16	128	344	500
29/12/16	154	344	500
29/12/16	145	344	500
31/12/16	169	344	500
03/01/17	160	344	500
05/01/17	139	344	500
07/01/17	156	344	500
07/01/17	126	344	500
10/01/17	139	344	500
12/01/17	130	344	500
14/01/17	160	344	500
17/01/17	173	344	500
19/01/17	120	344	500
19/01/17	143	344	500
21/01/17	160	344	500
24/01/17	139	344	500

1-hour TSP level at TM-RA2

Date	TSP (μ g/m ³)	Action level	Limit Level
18/10/16	302	344	500
20/10/16	275	344	500
22/10/16	290	344	500
25/10/16	271	344	500
27/10/16	288	344	500
27/10/16	264	344	500
29/10/16	287	344	500
01/11/16	283	344	500
03/11/16	268	344	500
06/11/16	278	344	500
08/11/16	299	344	500
10/11/16	273	344	500
12/11/16	261	344	500
15/11/16	275	344	500
15/11/16	290	344	500
17/11/16	264	344	500
19/11/16	285	344	500
22/11/16	283	344	500
24/11/16	299	344	500
26/11/16	276	344	500
26/11/16	290	344	500
29/11/16	295	344	500
01/12/16	293	344	500
03/12/16	285	344	500
06/12/16	258	344	500
08/12/16	285	344	500
08/12/16	271	344	500
10/12/16	297	344	500
13/12/16	287	344	500
15/12/16	278	344	500
17/12/16	268	344	500
20/12/16	256	344	500
22/12/16	273	344	500
24/12/16	294	344	500
29/12/16	268	344	500
29/12/16	260	344	500
29/12/16	273	344	500
31/12/16	282	344	500
03/01/17	275	344	500
05/01/17	287	344	500
07/01/17	278	344	500
07/01/17	256	344	500
10/01/17	270	344	500
12/01/17	290	344	500
14/01/17	262	344	500
17/01/17	270	344	500
19/01/17	258	344	500
19/01/17	251	344	500
21/01/17	282	344	500
24/01/17	267	344	500

Annex A6 - 1-hour and 24-hour TSP Monitoring Data

1-hour TSP level at TM-A1

Date	TSP (μ g/m ³)	Action level	Limit Level
26/01/17	118	344	500
26/01/17	139	344	500
02/02/17	152	344	500
02/02/17	137	344	500
04/02/17	171	344	500
07/02/17	126	344	500
09/02/17	143	344	500
11/02/17	168	344	500
14/02/17	155	344	500
16/02/17	170	344	500
18/02/17	150	344	500
21/02/17	152	344	500
21/02/17	126	344	500
23/02/17	137	344	500
25/02/17	154	344	500
28/02/17	132	344	500
02/03/17	111	344	500
04/03/17	143	344	500
04/03/17	130	344	500
07/03/17	152	344	500
09/03/17	111	344	500
11/03/17	108	344	500
14/03/17	122	344	500
16/03/17	133	344	500
16/03/17	148	344	500
18/03/17	144	344	500
21/03/17	157	344	500
23/03/17	164	344	500
25/03/17	150	344	500
28/03/17	122	344	500
30/03/17	168	344	500
01/04/17	148	344	500
06/04/17	137	344	500
06/04/17	145	344	500
06/04/17	134	344	500
08/04/17	174	344	500
11/04/17	163	344	500
13/04/17	136	344	500
18/04/17	159	344	500
18/04/17	139	344	500
18/04/17	122	344	500
20/04/17	145	344	500
22/04/17	130	344	500
25/04/17	139	344	500
27/04/17	159	344	500
27/04/17	143	344	500
29/04/17	161	344	500
02/05/17	139	344	500
04/05/17	143	344	500
06/05/17	165	344	500

1-hour TSP level at TM-RA2

Date	TSP (μ g/m ³)	Action level	Limit Level
26/01/17	265	344	500
26/01/17	273	344	500
02/02/17	255	344	500
02/02/17	270	344	500
04/02/17	285	344	500
07/02/17	251	344	500
09/02/17	270	344	500
11/02/17	278	344	500
14/02/17	257	344	500
16/02/17	284	344	500
18/02/17	266	344	500
21/02/17	278	344	500
21/02/17	266	344	500
23/02/17	245	344	500
25/02/17	271	344	500
28/02/17	288	344	500
02/03/17	257	344	500
04/03/17	270	344	500
04/03/17	274	344	500
07/03/17	278	344	500
09/03/17	245	344	500
11/03/17	240	344	500
14/03/17	266	344	500
16/03/17	257	344	500
16/03/17	245	344	500
18/03/17	240	344	500
21/03/17	263	344	500
23/03/17	278	344	500
25/03/17	270	344	500
28/03/17	283	344	500
30/03/17	292	344	500
01/04/17	288	344	500
06/04/17	253	344	500
06/04/17	262	344	500
06/04/17	238	344	500
08/04/17	291	344	500
11/04/17	279	344	500
13/04/17	257	344	500
18/04/17	296	344	500
18/04/17	301	344	500
18/04/17	270	344	500
20/04/17	253	344	500
22/04/17	255	344	500
25/04/17	282	344	500
27/04/17	267	344	500
27/04/17	277	344	500
29/04/17	289	344	500
02/05/17	277	344	500
04/05/17	257	344	500
06/05/17	277	344	500

Annex A6 - 1-hour and 24-hour TSP Monitoring Data

1-hour TSP level at TM-A1

Date	TSP (μ g/m ³)	Action level	Limit Level
09/05/17	132	344	500
11/05/17	143	344	500
13/05/17	155	344	500
16/05/17	164	344	500
16/05/17	159	344	500
18/05/17	168	344	500
20/05/17	162	344	500
23/05/17	151	344	500
25/05/17	146	344	500
27/05/17	142	344	500
27/05/17	146	344	500
27/05/17	137	344	500
01/06/17	118	344	500
03/06/17	133	344	500
06/06/17	124	344	500
08/06/17	138	344	500
08/06/17	142	344	500
10/06/17	116	344	500
13/06/17	107	344	500
15/06/17	113	344	500
17/06/17	103	344	500
20/06/17	139	344	500
22/06/17	146	344	500
24/06/17	124	344	500
27/06/17	151	344	500
27/06/17	146	344	500
29/06/17	161	344	500
04/07/17	138	344	500
04/07/17	133	344	500
06/07/17	140	344	500
08/07/17	153	344	500
08/07/17	150	344	500
11/07/17	168	344	500
13/07/17	162	344	500
15/07/17	157	344	500
18/07/17	127	344	500
20/07/17	149	344	500
20/07/17	155	344	500
22/07/17	149	344	500
25/07/17	175	344	500
27/07/17	149	344	500
29/07/17	181	344	500
01/08/17	175	344	500
03/08/17	151	344	500
05/08/17	160	344	500
08/08/17	144	344	500
08/08/17	148	344	500
10/08/17	142	344	500
12/08/17	162	344	500
15/08/17	149	344	500

1-hour TSP level at TM-RA2

Date	TSP (μ g/m ³)	Action level	Limit Level
09/05/17	253	344	500
11/05/17	284	344	500
13/05/17	230	344	500
16/05/17	224	344	500
16/05/17	233	344	500
18/05/17	250	344	500
20/05/17	244	344	500
23/05/17	233	344	500
25/05/17	215	344	500
27/05/17	243	344	500
27/05/17	238	344	500
27/05/17	232	344	500
01/06/17	218	344	500
03/06/17	236	344	500
06/06/17	229	344	500
08/06/17	241	344	500
08/06/17	247	344	500
10/06/17	221	344	500
13/06/17	201	344	500
15/06/17	212	344	500
17/06/17	193	344	500
20/06/17	233	344	500
22/06/17	229	344	500
24/06/17	223	344	500
27/06/17	213	344	500
27/06/17	203	344	500
29/06/17	220	344	500
04/07/17	218	344	500
04/07/17	213	344	500
06/07/17	233	344	500
08/07/17	216	344	500
08/07/17	221	344	500
11/07/17	258	344	500
13/07/17	231	344	500
15/07/17	239	344	500
18/07/17	204	344	500
20/07/17	209	344	500
20/07/17	214	344	500
22/07/17	206	344	500
25/07/17	238	344	500
27/07/17	213	344	500
29/07/17	242	344	500
01/08/17	236	344	500
03/08/17	222	344	500
05/08/17	231	344	500
08/08/17	217	344	500
08/08/17	220	344	500
10/08/17	209	344	500
12/08/17	244	344	500
15/08/17	231	344	500

Annex A6 - 1-hour and 24-hour TSP Monitoring Data

1-hour TSP level at TM-A1

Date	TSP (μ g/m ³)	Action level	Limit Level
17/08/17	153	344	500
19/08/17	181	344	500
19/08/17	201	344	500
22/08/17	168	344	500
24/08/17	190	344	500
26/08/17	155	344	500
29/08/17	177	344	500
31/08/17	162	344	500
31/08/17	172	344	500
17/09/04	125	344	500
17/09/05	149	344	500
17/09/07	113	344	500
17/09/09	56	344	500
17/09/12	246	344	500
17/09/14	188	344	500
17/09/16	275	344	500
17/09/19	173	344	500
17/09/19	147	344	500
17/09/21	73	344	500
17/09/23	71	344	500
17/09/26	268	344	500
17/09/28	198	344	500
17/09/30	53	344	500
17/09/30	93	344	500
03/10/17	245	344	500
07/10/17	58	344	500
07/10/17	97	344	500
10/10/17	58	344	500
12/10/17	164	344	500
12/10/17	118	344	500
14/10/17	197	344	500
17/10/17	123	344	500
19/10/17	219	344	500
21/10/17	100	344	500
24/10/17	177	344	500
24/10/17	158	344	500
26/10/17	164	344	500
31/10/17	164	344	500
31/10/17	239	344	500
02/11/17	160	344	500
04/11/17	206	344	500
07/11/17	208	344	500
09/11/17	281	344	500
11/11/17	159	344	500
11/11/17	177	344	500
14/11/17	176	344	500
16/11/17	289	344	500
18/11/17	296	344	500
21/11/17	85	344	500
23/11/17	228	344	500

1-hour TSP level at TM-RA2

Date	TSP (μ g/m ³)	Action level	Limit Level
17/08/17	248	344	500
19/08/17	228	344	500
19/08/17	233	344	500
22/08/17	208	344	500
24/08/17	245	344	500
26/08/17	230	344	500
29/08/17	238	344	500
31/08/17	220	344	500
31/08/17	231	344	500
04/09/17	102	344	500
05/09/17	137	344	500
07/09/17	113	344	500
09/09/17	106	344	500
12/09/17	218	344	500
14/09/17	302	344	500
16/09/17	331	344	500
19/09/17	98	344	500
19/09/17	108	344	500
21/09/17	103	344	500
23/09/17	104	344	500
26/09/17	208	344	500
28/09/17	65	344	500
30/09/17	89	344	500
30/09/17	118	344	500
03/10/17	230	344	500
07/10/17	144	344	500
07/10/17	260	344	500
10/10/17	254	344	500
12/10/17	257	344	500
12/10/17	233	344	500
14/10/17	185	344	500
17/10/17	167	344	500
19/10/17	222	344	500
21/10/17	335	344	500
24/10/17	232	344	500
24/10/17	229	344	500
26/10/17	242	344	500
31/10/17	220	344	500
31/10/17	244	344	500
02/11/17	149	344	500
04/11/17	205	344	500
07/11/17	212	344	500
09/11/17	297	344	500
11/11/17	212	344	500
11/11/17	215	344	500
14/11/17	166	344	500
16/11/17	140	344	500
18/11/17	245	344	500
21/11/17	219	344	500
23/11/17	281	344	500

Annex A6 - 1-hour and 24-hour TSP Monitoring Data

1-hour TSP level at TM-A1

Date	TSP (μ g/m ³)	Action level	Limit Level
23/11/17	262	344	500
25/11/17	262	344	500
28/11/17	296	344	500
30/11/17	175	344	500

1-hour TSP level at TM-RA2

Date	TSP (μ g/m ³)	Action level	Limit Level
23/11/17	298	344	500
25/11/17	266	344	500
28/11/17	233	344	500
30/11/17	299	344	500

Annex A6 - 1-hour and 24-hour TSP Monitoring Data

24-hour TSP level at TM-A1

Date	TSP (μ g/m ³)	Action level	Limit Level
21/01/14	149	192	260
27/01/14	128	192	260
04/02/14	133	192	260
10/02/14	133	192	260
16/02/14	131	192	260
22/02/14	117	192	260
28/02/14	122	192	260
06/03/14	102	192	260
12/03/14	88	192	260
18/03/14	116	192	260
24/03/14	107	192	260
30/03/14	110	192	260
05/04/14	105	192	260
11/04/14	79	192	260
17/04/14	109	192	260
23/04/14	106	192	260
29/04/14	110	192	260
05/05/14	109	192	260
11/05/14	119	192	260
17/05/14	85	192	260
23/05/14	87	192	260
29/05/14	89	192	260
04/06/14	95	192	260
10/06/14	87	192	260
16/06/14	89	192	260
22/06/14	96	192	260
28/06/14	96	192	260
04/07/14	79	192	260
10/07/14	72	192	260
16/07/14	73	192	260
22/07/14	77	192	260
28/07/14	66	192	260
03/08/14	98	192	260
09/08/14	96	192	260
15/08/14	97	192	260
21/08/14	99	192	260
27/08/14	90	192	260
02/09/14	98	192	260
08/09/14	103	192	260
14/09/14	136	192	260
20/09/14	110	192	260
26/09/14	113	192	260
02/10/14	97	192	260
08/10/14	105	192	260
14/10/14	91	192	260
20/10/14	98	192	260
26/10/14	99	192	260
01/11/14	96	192	260
07/11/14	85	192	260
13/11/14	103	192	260

24-hour TSP level at TM-RA2

Date	TSP (μ g/m ³)	Action level	Limit Level
21/01/14	131	192	260
27/01/14	110	192	260
04/02/14	131	192	260
10/02/14	116	192	260
16/02/14	127	192	260
22/02/14	99	192	260
28/02/14	101	192	260
06/03/14	112	192	260
12/03/14	102	192	260
18/03/14	111	192	260
24/03/14	120	192	260
30/03/14	99	192	260
05/04/14	112	192	260
11/04/14	120	192	260
17/04/14	129	192	260
23/04/14	145	192	260
29/04/14	161	192	260
05/05/14	155	192	260
11/05/14	158	192	260
17/05/14	139	192	260
23/05/14	140	192	260
29/05/14	137	192	260
04/06/14	121	192	260
10/06/14	110	192	260
16/06/14	110	192	260
22/06/14	121	192	260
28/06/14	106	192	260
04/07/14	97	192	260
10/07/14	79	192	260
16/07/14	76	192	260
22/07/14	95	192	260
28/07/14	122	192	260
03/08/14	92	192	260
09/08/14	91	192	260
15/08/14	92	192	260
21/08/14	150	192	260
27/08/14	139	192	260
02/09/14	147	192	260
08/09/14	149	192	260
14/09/14	120	192	260
20/09/14	112	192	260
26/09/14	121	192	260
02/10/14	100	192	260
08/10/14	118	192	260
14/10/14	82	192	260
20/10/14	102	192	260
26/10/14	80	192	260
01/11/14	95	192	260
07/11/14	78	192	260
13/11/14	76	192	260

Annex A6 - 1-hour and 24-hour TSP Monitoring Data

24-hour TSP level at TM-A1

Date	TSP (μ g/m ³)	Action level	Limit Level
19/11/14	65	192	260
25/11/14	131	192	260
01/12/14	101	192	260
07/12/14	112	192	260
13/12/14	121	192	260
19/12/14	112	192	260
25/12/14	108	192	260
31/12/14	115	192	260
06/01/15	71	192	260
12/01/15	69	192	260
18/01/15	68	192	260
24/01/15	76	192	260
30/01/15	78	192	260
05/02/15	134	192	260
11/02/15	127	192	260
17/02/15	127	192	260
23/02/15	107	192	260
01/03/15	113	192	260
07/03/15	129	192	260
13/03/15	130	192	260
19/03/15	140	192	260
25/03/15	81	192	260
31/03/15	117	192	260
06/04/15	100	192	260
12/04/15	95	192	260
18/04/15	100	192	260
24/04/15	96	192	260
30/04/15	85	192	260
06/05/15	110	192	260
12/05/15	111	192	260
18/05/15	132	192	260
24/05/15	85	192	260
30/05/15	114	192	260
05/06/15	101	192	260
11/06/15	109	192	260
17/06/15	103	192	260
23/06/15	99	192	260
29/06/15	103	192	260
05/07/15	135	192	260
11/07/15	121	192	260
17/07/15	84	192	260
23/07/15	73	192	260
29/07/15	90	192	260
04/08/15	101	192	260
10/08/15	76	192	260
16/08/15	98	192	260
22/08/15	80	192	260
28/08/15	80	192	260
03/09/15	80	192	260
09/09/15	78	192	260

24-hour TSP level at TM-RA2

Date	TSP (μ g/m ³)	Action level	Limit Level
19/11/14	111	192	260
25/11/14	147	192	260
01/12/14	89	192	260
07/12/14	98	192	260
13/12/14	77	192	260
19/12/14	82	192	260
25/12/14	103	192	260
31/12/14	110	192	260
06/01/15	103	192	260
12/01/15	130	192	260
18/01/15	108	192	260
24/01/15	117	192	260
30/01/15	128	192	260
05/02/15	117	192	260
11/02/15	113	192	260
17/02/15	110	192	260
23/02/15	84	192	260
01/03/15	126	192	260
07/03/15	113	192	260
13/03/15	173	192	260
19/03/15	150	192	260
25/03/15	134	192	260
31/03/15	138	192	260
06/04/15	129	192	260
12/04/15	142	192	260
18/04/15	129	192	260
24/04/15	118	192	260
30/04/15	111	192	260
06/05/15	96	192	260
12/05/15	92	192	260
18/05/15	133	192	260
24/05/15	140	192	260
30/05/15	102	192	260
05/06/15	104	192	260
11/06/15	112	192	260
17/06/15	106	192	260
23/06/15	91	192	260
29/06/15	141	192	260
05/07/15	139	192	260
11/07/15	124	192	260
17/07/15	137	192	260
23/07/15	114	192	260
29/07/15	130	192	260
04/08/15	136	192	260
10/08/15	128	192	260
16/08/15	132	192	260
22/08/15	110	192	260
28/08/15	110	192	260
03/09/15	145	192	260
09/09/15	137	192	260

Annex A6 - 1-hour and 24-hour TSP Monitoring Data

24-hour TSP level at TM-A1

Date	TSP (μ g/m ³)	Action level	Limit Level
15/09/15	77	192	260
21/09/15	73	192	260
27/09/15	77	192	260
03/10/15	78	192	260
09/10/15	80	192	260
15/10/15	69	192	260
21/10/15	100	192	260
27/10/15	75	192	260
02/11/15	77	192	260
08/11/15	68	192	260
14/11/15	83	192	260
20/11/15	92	192	260
26/11/15	78	192	260
02/12/15	77	192	260
08/12/15	80	192	260
14/12/15	83	192	260
20/12/15	74	192	260
26/12/15	74	192	260
01/01/16	80	192	260
07/01/16	80	192	260
13/01/16	79	192	260
19/01/16	86	192	260
25/01/16	84	192	260
31/01/16	86	192	260
06/02/16	74	192	260
12/02/16	69	192	260
18/02/16	89	192	260
24/02/16	75	192	260
01/03/16	85	192	260
07/03/16	78	192	260
13/03/16	97	192	260
19/03/16	94	192	260
25/03/16	96	192	260
31/03/16	104	192	260
06/04/16	79	192	260
12/04/16	90	192	260
18/04/16	86	192	260
24/04/16	96	192	260
30/04/16	88	192	260
06/05/16	74	192	260
12/05/16	95	192	260
18/05/16	103	192	260
24/05/16	99	192	260
30/05/16	91	192	260
05/06/16	96	192	260
11/06/16	95	192	260
17/06/16	96	192	260
23/06/16	72	192	260
29/06/16	83	192	260
05/07/16	106	192	260

24-hour TSP level at TM-RA2

Date	TSP (μ g/m ³)	Action level	Limit Level
15/09/15	132	192	260
21/09/15	132	192	260
27/09/15	137	192	260
03/10/15	145	192	260
09/10/15	132	192	260
15/10/15	125	192	260
21/10/15	130	192	260
27/10/15	132	192	260
02/11/15	139	192	260
08/11/15	119	192	260
14/11/15	129	192	260
20/11/15	68	192	260
26/11/15	132	192	260
02/12/15	133	192	260
08/12/15	127	192	260
14/12/15	136	192	260
20/12/15	121	192	260
26/12/15	130	192	260
01/01/16	140	192	260
07/01/16	135	192	260
13/01/16	145	192	260
19/01/16	142	192	260
25/01/16	139	192	260
31/01/16	144	192	260
06/02/16	127	192	260
12/02/16	120	192	260
18/02/16	141	192	260
24/02/16	129	192	260
01/03/16	142	192	260
07/03/16	154	192	260
13/03/16	161	192	260
19/03/16	142	192	260
25/03/16	156	192	260
31/03/16	147	192	260
06/04/16	136	192	260
12/04/16	146	192	260
18/04/16	148	192	260
24/04/16	158	192	260
30/04/16	153	192	260
06/05/16	146	192	260
12/05/16	142	192	260
18/05/16	144	192	260
24/05/16	154	192	260
30/05/16	145	192	260
05/06/16	149	192	260
11/06/16	149	192	260
17/06/16	160	192	260
23/06/16	147	192	260
29/06/16	148	192	260
05/07/16	165	192	260

Annex A6 - 1-hour and 24-hour TSP Monitoring Data

24-hour TSP level at TM-A1

Date	TSP (μ g/m ³)	Action level	Limit Level
11/07/16	92	192	260
17/07/16	99	192	260
23/07/16	102	192	260
29/07/16	106	192	260
04/08/16	111	192	260
10/08/16	99	192	260
16/08/16	80	192	260
22/08/16	68	192	260
28/08/16	96	192	260
03/09/16	104	192	260
09/09/16	75	192	260
15/09/16	79	192	260
21/09/16	90	192	260
27/09/16	91	192	260
03/10/16	83	192	260
08/10/16	96	192	260
14/10/16	97	192	260
20/10/16	94	192	260
26/10/16	98	192	260
01/11/16	102	192	260
07/11/16	85	192	260
13/11/16	94	192	260
19/11/16	103	192	260
25/11/16	101	192	260
01/12/16	96	192	260
07/12/16	73	192	260
13/12/16	92	192	260
19/12/16	97	192	260
25/12/16	102	192	260
31/12/16	96	192	260
06/01/17	70	192	260
12/01/17	94	192	260
18/01/17	91	192	260
24/01/17	103	192	260
01/02/17	92	192	260
07/02/17	78	192	260
13/02/17	100	192	260
19/02/17	108	192	260
25/02/17	98	192	260
04/03/17	99	192	260
10/03/17	79	192	260
16/03/17	94	192	260
22/03/17	86	192	260
28/03/17	82	192	260
02/04/17	98	192	260
08/04/17	106	192	260
14/04/17	113	192	260
20/04/17	99	192	260
26/04/17	91	192	260
02/05/17	91	192	260

24-hour TSP level at TM-RA2

Date	TSP (μ g/m ³)	Action level	Limit Level
11/07/16	164	192	260
17/07/16	157	192	260
23/07/16	161	192	260
29/07/16	182	192	260
04/08/16	176	192	260
10/08/16	153	192	260
16/08/16	142	192	260
22/08/16	154	192	260
28/08/16	154	192	260
03/09/16	160	192	260
09/09/16	154	192	260
15/09/16	163	192	260
21/09/16	162	192	260
27/09/16	164	192	260
03/10/16	151	192	260
08/10/16	151	192	260
14/10/16	156	192	260
20/10/16	150	192	260
26/10/16	162	192	260
01/11/16	163	192	260
07/11/16	149	192	260
13/11/16	171	192	260
19/11/16	167	192	260
25/11/16	171	192	260
01/12/16	163	192	260
07/12/16	152	192	260
13/12/16	171	192	260
19/12/16	153	192	260
25/12/16	168	192	260
31/12/16	154	192	260
06/01/17	155	192	260
12/01/17	166	192	260
18/01/17	153	192	260
24/01/17	167	192	260
01/02/17	162	192	260
07/02/17	162	192	260
13/02/17	170	192	260
19/02/17	144	192	260
25/02/17	156	192	260
04/03/17	163	192	260
10/03/17	150	192	260
16/03/17	156	192	260
22/03/17	169	192	260
28/03/17	154	192	260
02/04/17	169	192	260
08/04/17	178	192	260
14/04/17	176	192	260
20/04/17	181	192	260
26/04/17	165	192	260
02/05/17	151	192	260

Annex A6 - 1-hour and 24-hour TSP Monitoring Data

24-hour TSP level at TM-A1

Date	TSP (μ g/m ³)	Action level	Limit Level
08/05/17	78	192	260
14/05/17	80	192	260
20/05/17	80	192	260
26/05/17	79	192	260
01/06/17	86	192	260
07/06/17	81	192	260
13/06/17	77	192	260
19/06/17	74	192	260
25/06/17	70	192	260
01/07/17	68	192	260
07/07/17	65	192	260
13/07/17	67	192	260
19/07/17	69	192	260
25/07/17	70	192	260
31/07/17	72	192	260
06/08/17	79	192	260
12/08/17	78	192	260
18/08/17	79	192	260
24/08/17	71	192	260
30/08/17	75	192	260
17/09/05	61	192	260
17/09/11	57	192	260
17/09/17	91	192	260
17/09/23	42	192	260
17/09/29	62	192	260
05/10/17	41	192	260
11/10/17	48	192	260
17/10/17	116	192	260
23/10/17	98	192	260
29/10/17	132	192	260
04/11/17	129	192	260
10/11/17	113	192	260
16/11/17	163	192	260
22/11/17	86	192	260
28/11/17	141	192	260

24-hour TSP level at TM-RA2

Date	TSP (μ g/m ³)	Action level	Limit Level
08/05/17	154	192	260
14/05/17	131	192	260
20/05/17	131	192	260
26/05/17	130	192	260
01/06/17	135	192	260
07/06/17	135	192	260
13/06/17	130	192	260
19/06/17	119	192	260
25/06/17	113	192	260
01/07/17	113	192	260
07/07/17	107	192	260
13/07/17	110	192	260
19/07/17	112	192	260
25/07/17	116	192	260
31/07/17	118	192	260
06/08/17	123	192	260
12/08/17	124	192	260
18/08/17	126	192	260
24/08/17	118	192	260
30/08/17	121	192	260
17/09/05	67	192	260
17/09/11	85	192	260
17/09/17	92	192	260
17/09/23	50	192	260
17/09/29	71	192	260
05/10/17	79	192	260
11/10/17	145	192	260
17/10/17	56	192	260
23/10/17	117	192	260
29/10/17	190	192	260
04/11/17	174	192	260
10/11/17	146	192	260
16/11/17	171	192	260
22/11/17	176	192	260
28/11/17	189	192	260

Annex A7

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>

Annex B

Environmental Protection
Measures Incorporation into
the Design of the TMFB
(adopted from the
Approved PP DIR-
113/2005)

2. NOISE MANAGEMENT

2.1.1 The following noise management measures are recommended to be implemented by the contractor as good site practices during the establishment, operation and removal of the fill bank.

Construction Noise Management

- All construction works should be carried out during the non-restricted hours (i.e. 7:00 a.m. to 7:00 p.m. on weekdays other than General Holidays);
- Before the commencement of any work that may generate a significant noise impact, the Contractor should submit to the Engineer for approval the method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment) intended to be used.

Operational / Removal Phase Noise Management

- The noise standards specified in the *Technical Memorandum for the Assessment of Noise from Places Other Than Domestic Premises, Public Places or Construction Sites* shall be met;
- Before the commencement of any work that may generate a significant noise impact, the Contractor should submit to the Engineer for approval the method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment) intended to be used;
- During the operation of the planned holiday camp development, administration measure will be implemented by CEDD to reduce the land-based truck flow to the fill bank at Tuen Mun Area 38 to not more than 1,200 veh/day by diverting part of the public fill trucks to other outlets;
- During the operation of the planned holiday camp development, silenced equipment (except for incoming trucks, barge and tug boat) should be adopted;
- Prior to the commencement of operation of the planned holiday camp development, the section of haul road indicated in Figure A2 of Annex II should be erected with semi-enclosure to avoid any direct line of sight with the noise sensitive receivers at two camp sites of the planned holiday camp development; and
- During the operation of the planned holiday camp development, control measures will be imposed during night time period to restrict the activities at the stockpile (including travelling of vehicles) to the southern portion of the fill bank only as indicated in Figure A2 of Annex II.

3. WATER QUALITY CONTROL MEASURES

3.1.1 Potential water quality impact during the establishment, operation and removal of the fill bank shall be controlled with the following as basic principles:

- Prevent or minimise the likelihood of the identified pollutants being in contact with rainfall or runoff; and
- Measures to abate pollutants in the stormwater runoff.

3.1.2 These principles shall be achieved through the implementation of adequately designed water quality control measures as Best Management Practices (BMPs). The guidelines for handling and disposal of construction site discharges as detailed in EPD's ProPECC Note PN1/94 "Construction Site Drainage" should be followed.

Provision of Storm Water Interception Facilities and Buffer Zone

- 3.1.3 Trapezoidal surface channels should be constructed to intercept polluted surface runoff. These channels shall be equipped with sand/ de-silting traps such that the effluent discharged from the site during the establishment, operation and removal phases will meet the discharge limits specified in the *Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters*. Annex IV shows the typical design of sand trap (Drawing No. DS 1025B).
- 3.1.4 Before completion of the surface drainage channels at the commencement of the project, earth bunds and sand bag barriers shall be used at required locations to effectively divert storm water to available drainage channels. The temporary drainage facilities provided shall allow polluted storm water to be diverted to existing intercepting channels before stockpiling of public fill should begin. The intercepting channels shall be equipped with sand / silt removal facilities to allow the storm water to be treated before discharge at the designated outfalls. Effluent discharged shall meet the relevant discharge limits specified in the Technical Memorandum.
- 3.1.5 To minimise potential water quality impact associated with polluted surface water runoff, a minimum buffer distance of 50m will be provided between the edge of the stockpiling area of the fill bank and the seafront. Open channels and/or other effective drainage system shall be constructed at the perimeter of the site for intercepting and directing runoff to sand / silt removal facilities prior to discharge. The unpaved area on the seaward side of the channels shall be covered with gravel and formed with slope so that polluted storm water will be intercepted by the channels.

Excavated Material Generated During Establishment

- 3.1.6 Any excavated material generated near the seafront (e.g. from the construction of the barging point) not required to be backfilled immediately should be transported away from the seafront to avoid potential water quality impact especially during the rainy season.

Sorted Public Fill

- 3.1.7 Public fill transported to the stockpiling area for storage should not contain unsuitable material such as peat, vegetation, timber, organic, soluble or perishable material, dangerous or toxic material, floatable materials (such as bottle, plastic bags, foam box), and materials susceptible to combustion.

Surface Protection Measures for Slope

- 3.1.8 Public fill at the stockpiling area should be handled with care in proper manner that will not result in segregation, deterioration, erosion or instability of the material. The designated positions for the unloading of fill material in the daily operation of the fill bank should be followed. Temporary slope surfaces shall be covered as far as practicable and as soon as possible with tarpaulin sheets or other impermeable sheets, or protected by other methods approved by CEDD when rainstorms are likely, especially when a rainstorm is imminent or forecast. Final slope surfaces shall be treated by compaction, followed by hydroseeding, vegetation planting or other suitable surface stabiliser approved by CEDD to prevent the washing away of stockpiled material.

Maintenance of Sand / Silt Removal Facilities

- 3.1.9 Adequately designed and constructed catchpits, sand and silt removal facilities and intercepting channels should be maintained, and the deposited silt and grit should be removed weekly and on a need basis especially during the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times during the establishment, operation and removal phases.

Wheel Washing Facilities

- 3.1.10 All vehicles and plant bodies should be cleaned before they leave the fill bank site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at the site exit and wash-water should have sand and silt settled out or removed before the water is being reused or discharged into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.

Wastewater from Site Facilities

- 3.1.11 Sewage from toilets and similar facilities should be discharged into a foul sewer, or chemical toilets should be provided. Should the use of chemical toilets be necessary, these should be provided by a licensed contractor who will be responsible for appropriate disposal and maintenance of these facilities. Wastewater collected from canteen kitchens, including that from basins, sinks and floor drains, should be discharged into foul sewers via grease traps. Drainage system provided at car parking areas shall be provided with oil interceptors in addition to sand/ silt removal facilities.

Use of Barges

- 3.1.12 All barges used in the transportation of fill material during the operation / removal stages should be properly licensed under the Shipping and Port Control Ordinance, and of appropriate size such that adequate clearance is maintained between the vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash. All vessels used for transportation of fill material should have tight fitting seals to their bottom openings to prevent leakage of material during transport. For the transfer of public fill from the berthing barges to fill bank at Tuen Mun Area 38, the following design measures shall be specified in the Technical Specification as environmental protection measures:
- When backhoe fixed on an appropriately design flat-top pontoon is in use, the reach of the backhoe shall be controlled to within the flat-top pontoon of sufficient length to avoid accidental dropping of public fill into the sea;
 - When hopper barges with mobile crane is in use, guardrails or equivalent shall be fixed alongside the berthing faces to guide the movement of the crane to avoid accidental dropping of fill material into the sea;
 - When derrick barges with built-in crane are in use, the reach of the jig shall be controlled to within the length of the barge to avoid accidental dropping of public fill into the sea.
- 3.1.13 These recommended measures for transfer of public fill from barges to the fill bank are illustrated in Figure M1 through Figure M3. The design of the specific transfer methods shall be such that the pathway of material delivery from barge to the waterfront will not be directly on top of the marine water to effectively prevent the dropping of material to the sea. Should other equivalent transfer methods and environmental protection measures are proposed by the future contractor, these shall be subject to the approval of CEDD and EPD.
- 3.1.14 Barges should not be filled to a level which may cause overflow of material during loading or transportation. Barge effluents (e.g. muddy water) should be properly collected and treated prior to disposal. The work activities should not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging point.
- 3.1.15 A waste collection vessel shall be deployed to remove floating refuse on the sea near the fill bank for proper disposal.

Construction Site Drainage Guidelines

- 3.1.16 Other best management practices to reduce storm water and non-point source pollution recommended under ProPECC PN 1/94 on *Construction Site Drainage* should be properly followed.
- 3.1.17 The Contractor shall be responsible for the design and implementation of the water pollution control measures. If the above measures are not sufficient to restore any water quality impact monitored to acceptable levels, upon gaining advice through discussion with the Independent Environmental Checker (IEC) and Engineer's Representative (ER) and the contractor, the Environmental Team (ET) shall propose some other mitigation measures for implementation by the Contractor. The ET shall carry out regular site audit to ensure timely implementation of the BMPs by the contractor.

Environmental Monitoring and Audit

- 3.1.18 The implementation of the above water pollution control measures shall be checked by an Environmental Monitoring and Audit (EM&A) programme.

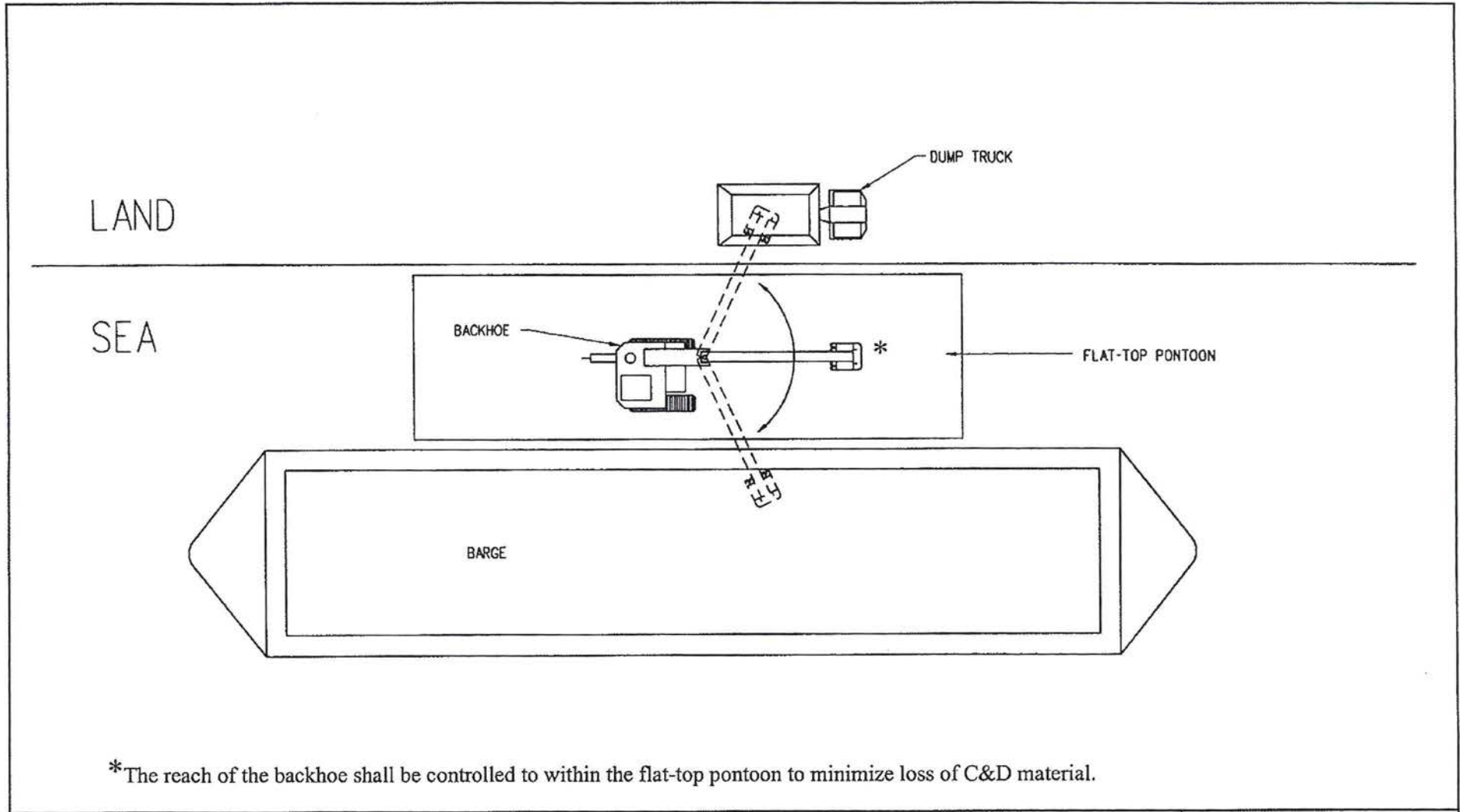
4. LANDFILL GAS MIGRATION PROTECTION MEASURES

- 4.1.1 Main site offices of the fill bank shall be constructed within the site area lying outside the 250m consultation zone of the restored Siu Lang Shui landfill. The container office(s) to be set up at the site entrance/ exit which is situated within the consultation zone of the landfill shall be constructed on a raised hollow platform, or equivalent measure should be provided.
- 4.1.2 No underground structures such as drainage and sewage systems, underground pipelines and chambers shall be constructed at the site area lying within the consultation zone. Access to the fill bank by the general public shall be restricted.
- 4.1.3 During the establishment, operation and removal phases of the fill bank, hazards may arise as a result of the flammability of landfill gas or its potentially asphyxiating properties. It is advisable to include appropriate specified clauses for incorporation into the contract documents of the project. In general, the contractor should be aware of, and should inform supervisor and workers of the following:
- Methane and carbon dioxide are always likely to be present in the soil voids;
 - Physical and chemical nature of landfill gas;
 - Methodologies for landfill gas detection;
 - Fire and explosion hazards associated with landfill gas;
 - Toxicity effects and health hazards associated with landfill gas;
 - Potential health effects from direct contact with leachate / groundwater contaminated by leachate; and
 - Provide the contingency measures for leachate / groundwater contamination.

- 4.1.4 Precautions should be clearly laid down and rigidly adhered to for activities such as excavation, trenching and creation of confined or semi-confined spaces, if any, carried out within the consultation zone of the restored landfill. In addition to normal site safety procedures, gas detection equipment and appropriate breathing apparatus should be available and used when entering confined spaces or trenches deeper than 2 metres.
- 4.1.5 Personnel entering the site shall be fully informed of the risk associated with potential landfill gas exposure.
- 4.1.6 Concentration of methane, carbon dioxide and oxygen within the manholes or the like shall be checked and confirmed to be within a safe level before any workers enter any enclosed space situated within the consultation zone of the restored landfill.
- 4.1.7 Safety measures including the following should be covered in the contract document:
- Proper warning of the potential hazards in the vicinity of excavation works at existing ground level;
 - Appropriate training for workers who work in, or have responsibility for "at risk" areas;
 - Preparation of an excavation procedure or code of practice for excavation works at existing ground level;
 - Prohibition of smoke and naked flames within any ground level excavation or ground-level confined space;
 - Proper control of welding, flame-cutting or other hot works from any trench, confined spaces or excavation area;
 - Proper location for mobile offices, equipment stores, mess rooms, etc.;
 - Provision of adequate fire extinguishing equipment, fire-resistant clothing and breathing apparatus;
 - Preparation of a "method-of-working" statement covering all normal and emergency procedures before beginning of any required drilling operations.
- 4.1.8 On the unlikely event that any sign of leachate or leachate-contaminated groundwater be encountered during the establishment, operation or removal phases of the fill bank, the landfill operator should be informed so that this can be collected for proper treatment and disposal.

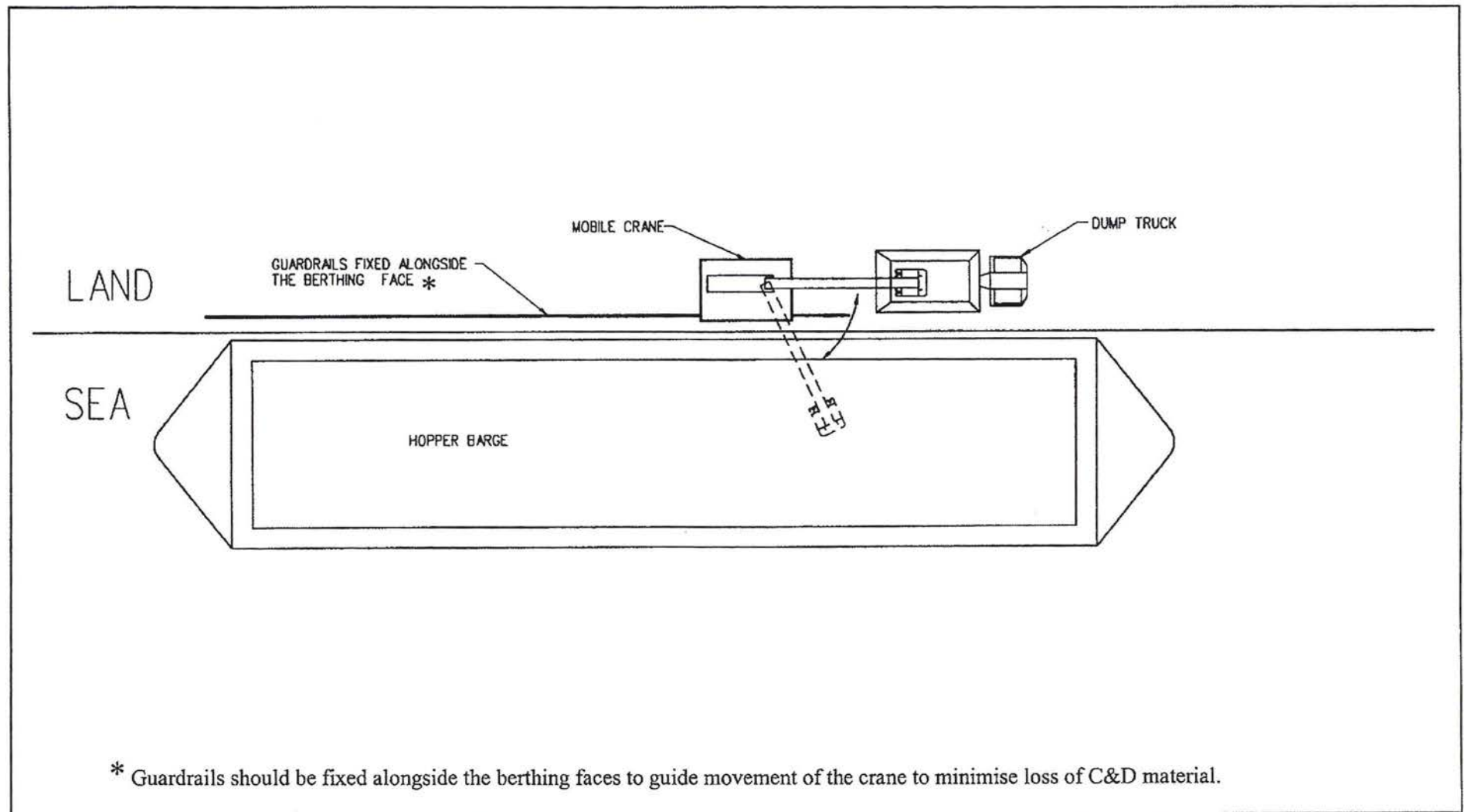
5. LANDSCAPE AND VISUAL CONTROL MEASURES

- 5.1.1 Hydroseeding or coloured geo-textile matting (dark green / brown) shall be provided on the slopes of the fill bank along the eastern, northern and western sides of the fill bank as the slopes of each layer of platform are formed. A buffer tree planting strip should be provided along the northern perimeter of the site where space permits as shown in Figure 11. A row of approximately 3m high native evergreen tree species with a tall habit when fully grown (e.g. *Casuarina equisetifolia*) shall be planted at the early establishment / operational phase of the project. To ensure the effective implementation of these measures, a Government approved landscape contractor will be hired to undertake and maintain the hydroseeding and tree planting works.
- 5.1.2 The design, colour and finish of structures at the fill bank should be such that they are visually recessive. Reflectivity should be reduced through selection of material or surface treatment. The surface colour selected should be of an earthy tone with strong natural qualities (e.g. green / grey / brown). Use of bold colour schemes should be avoided. The existing 2.4m high site hoarding located along Lung Mun Road should be maintained to help screening of the fill bank.
- 5.1.3 The lighting requirements for individual site activities in the evening and night-time periods should be evaluated to avoid the use of excessive lighting while ensuring safe operation. Directional down lighting should be used to minimise light spill to surrounding areas. Illumination should be provided at active work areas only. Lighting provided should be localised and shielded from nearby VSRs.

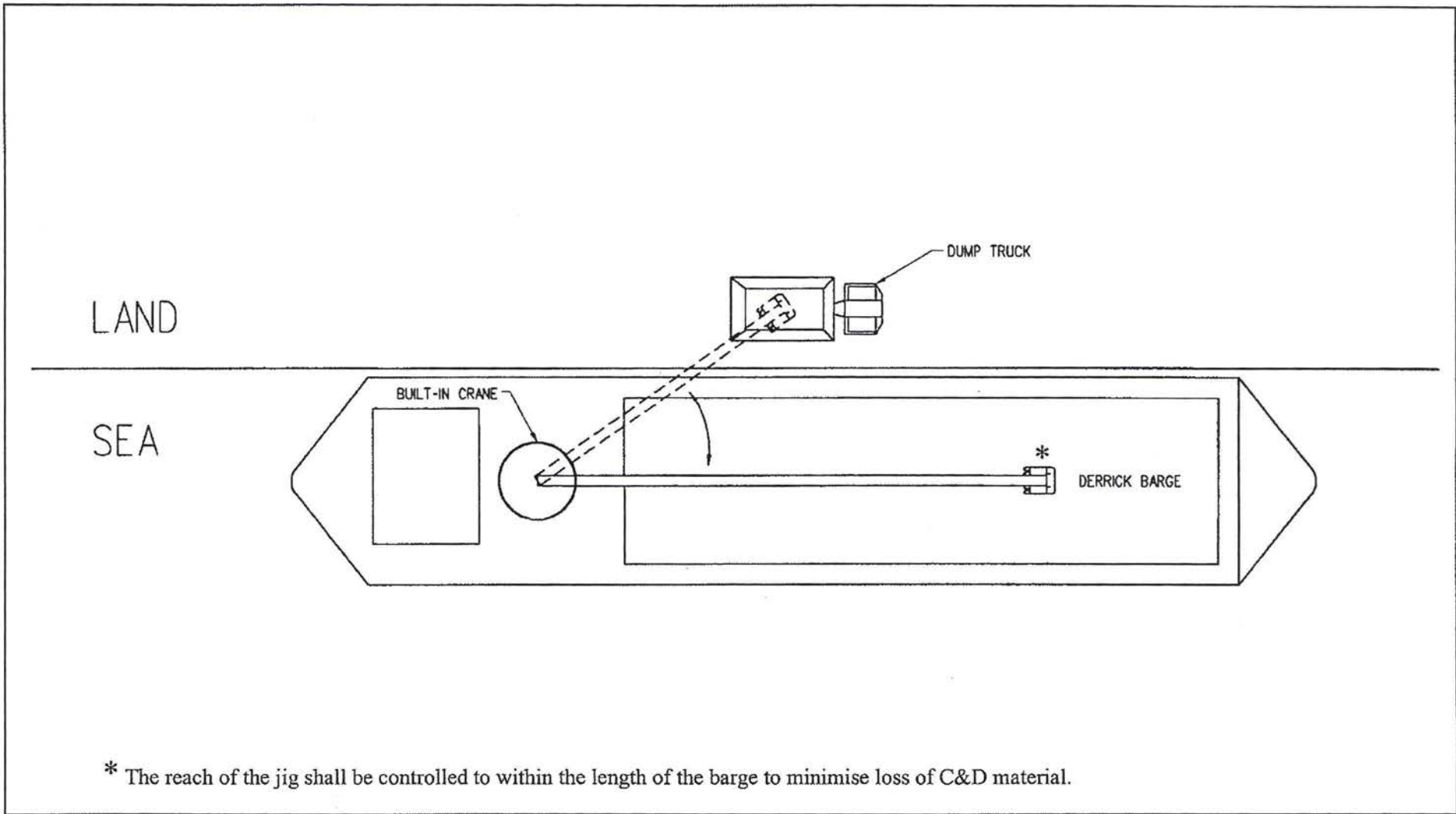


*The reach of the backhoe shall be controlled to within the flat-top pontoon to minimize loss of C&D material.

CH2M-IDC Hong Kong Limited	PROJECT PROFILE FOR EXPANSION AND EXTENSION OF FILL BANK AT TUEN MUN AREA 38 - INVESTIGATION	土木工程拓展署 Civil Engineering and Development Department			
	Use of Backhoe Fixed on a Well Designed Flat-top Pontoon	SCALE	NA	DATE	NOV 2004
		DESIGNED	CC	DRAWN	WAN
FIGURE M1				REV 0	



CH2M-IDC Hong Kong Limited	PROJECT PROFILE FOR EXPANSION AND EXTENSION OF FILL BANK AT TUEN MUN AREA 38 - INVESTIGATION	土木工程拓展署 Civil Engineering and Development Department			
	Use of Hopper Barges with Mobile Crane	SCALE	NA	DATE	NOV 2004
		DESIGNED	CC	DRAWN	WAN
		FIGURE M2		REV 0	



CH2M-IDC Hong Kong Limited	PROJECT PROFILE FOR EXPANSION AND EXTENSION OF FILL BANK AT TUEN MUN AREA 38 - INVESTIGATION		土木工程拓展署 Civil Engineering and Development Department			
	Use of Derrick Barges with Built-in Crane		SCALE	NA	DATE	NOV 2004
			DESIGNED	CC	DRAWN	WAN
			FIGURE M3		REV 0	

Annex C

Written Confirmation from
Planning Department and
Lands Department

Urgent Return receipt Sign Encrypt Mark Subject Restricted Expand personal&public groups



{In Archive} Re: Proposed Holiday Camp Site in the Vicinity of TM Area
38 Fill Bank 📄

10/04/2018 16:16

From: Jannie Hoi Ting LEUNG/PLAND/HKSARG@PLAND
To: LEWIS KA WA YAU/CEDD/HKSARG@CEDD,
Cc: Fiona CH CHEUNG/EPD/HKSARG@EPD, JULIAN KAM LEUNG
NG/CEDD/HKSARG@CEDD, Bonnie Kai Chuk LEE/PLAND/HKSARG@PLAND
Archive: This message is being viewed in an archive.

Dear Lewis,

The s.16 planning application for proposed youth holiday camp was withdrawn. The sites fall within the boundary of the Planning and Engineering Study for Tuen Mun Areas 40 and 46 and Adjoining Areas - Feasibility Study, jointly commissioned by PM(W), CEDD and our office. The eastern site falls mainly within the potential development area which will be reserved for modern logistics use. For your information, the concerned sites are under TGLAs operated by CEDD as a depot and by HyD operated as a planting area at the time being.

Regards,
Jannie
2158 6333

LEWIS KA WA YAU Dear Jannie, We spoke. Please kindly advise...

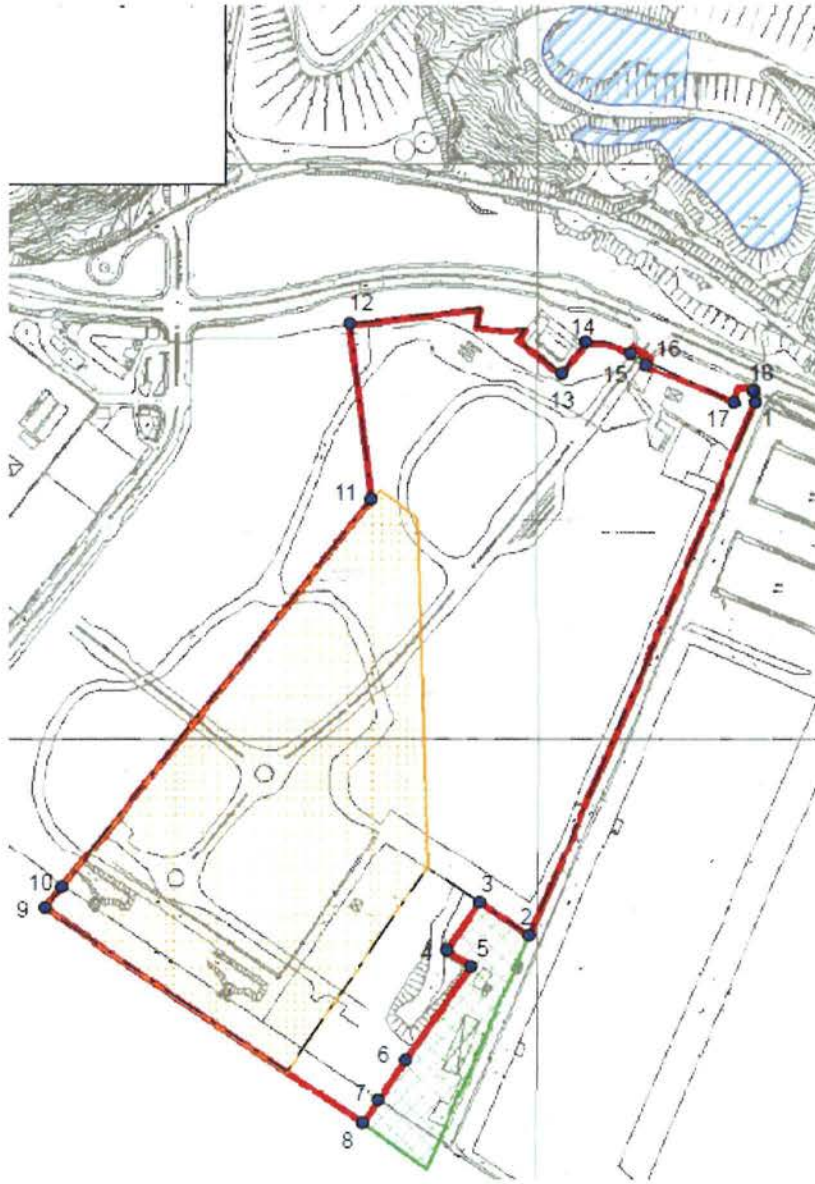
10/04/2018 11:48:16

From: LEWIS KA WA YAU/CEDD/HKSARG@CEDD
To: Jannie Hoi Ting LEUNG/PLAND/HKSARG@PLAND,
Cc: Fiona CH CHEUNG/EPD/HKSARG@EPD, JULIAN KAM LEUNG NG/CEDD/HKSARG@CEDD
Date: 10/04/2018 11:48
Subject: Proposed Holiday Camp Site in the Vicinity of TM Area 38 Fill Bank

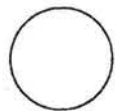
Dear Jannie,

We spoke. Please kindly advise whether the proposed holiday camp sites in the vicinity of TM Area 38 Fill Bank (i.e. the blue-shaded area) will still proceed.

If it is not proceeded, we shall review and amend the relevant conditions of Environmental Permit for TM Area 38 Fill Bank. Thanks for your advise.



Regards,
Lewis Yau
E/P11
FMD CEDD
Email: lewisau@cedd.gov.hk
Tel: 2762 5609
Fax: 2714 0113



MEMO

From District Lands Officer, Tuen Mun
 Ref. (170) in DLOTM 55/MGS/99 IV
(Please quote this reference in your reply)
 Tel. No. 2451 3323
 Fax No. 2459 0795
 Email letmesd@landsd.gov.hk
 Date 17.4.2018

To Chief Engineer/Fill Management, CEDD
 (Attn. : YAU Ka-wa, Lewis)
 Your Ref. (00CD6E) in FM-30-0005-(FM 01/2017)-00
 Fax No : 2714 0113
 Dated 11.4.2018
 Total Pages 1

**Temporary Government Land Allocation No. TTM521
 For the purpose of Fill Bank Area 38, Tuen Mun**

Enquiry of Land Status in the Vicinity of Tuen Mun Area 38

I refer to your MUR.

2. The land status of the concerned area is summarized below for your reference.

TGLA No ./ Licence No.	Allocatee	Allocation Period	User
GLA-TTM 651 and the Extension	HyD	Until 30.9.2018	Surface Level Planting Area
GLA-TTM 683	DSD	Until 30.6.2019	Works Area

3. Apart from the land status, please be informed that the area concerned will interface with the following two projects and relevant project offices should be consulted:-

- a) Agreement No. 20/2012 (TP), Planning and Engineering Study for Tuen Mun Areas 40 and 46 and the Adjoining Areas – Feasibility Study (Project Office: CEDD / PlanD).
- b) Agreement No. 66/2017 (CE), Site Formation and Infrastructure Works for Industrial Sites in Tuen Mun, Hung Shui Kiu and Yuen Long Areas – Investigation, Design and Construction (Project Office : CEDD).

(L.H. LI)

for District Lands Officer, Tuen Mun

(13)

MEMO

From Chief Engineer/Fill Management, CEDD
Ref. () in FM-30-0005-(FM 01/2017)-00
Tel. No. 00cD6E 2762 5609
Fax. No. 2714 0113
Date 11 April 2018

To DLO/TM, LandsD
(Attn. : Mr. LI Leong-ho)
Your Ref. () in
dated Fax. No. 2459 0795
Total Pages 1 + Encl.

**Temporary Government Land Allocation No. TTM521
For the purpose of Fill Bank Area 38, Tuen Mun**

Enquiry of Land Status in the Vicinity of Tuen Mun Area 38

I write to enquire the latest land status of area which is in the vicinity of Tuen Mun Area 38 Fill Bank. Enclosed please find the sketch which shows the land extent covered under this enquiry.

2. Should you require further information, please feel free to contact me at telephone no. 2762 5609.



(YAU Ka-wa, Lewis)
for Chief Engineer/Fill Management
Civil Engineering and Development Department

c.c.

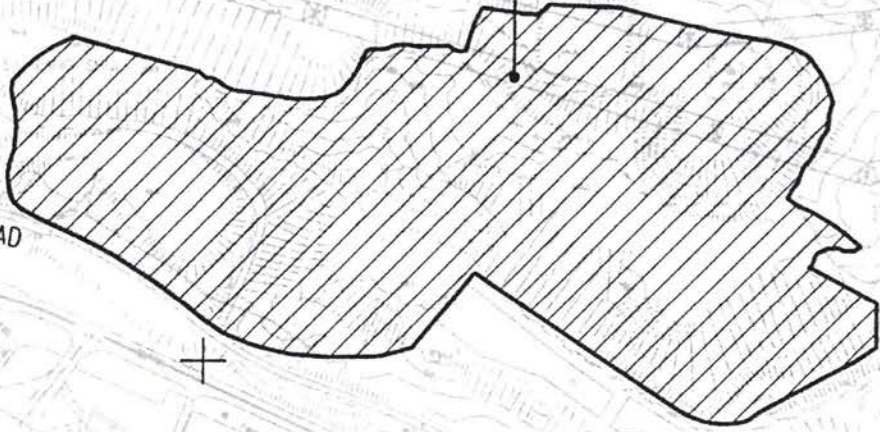
Sr EPO (Regional Assessment)2, EPD (Attn: Fiona CHEUNG)

Fax no. : 2591 0558



SIU LANG
SHUI LANDFILL

Land status to be advised by
DLO/TM under this memo

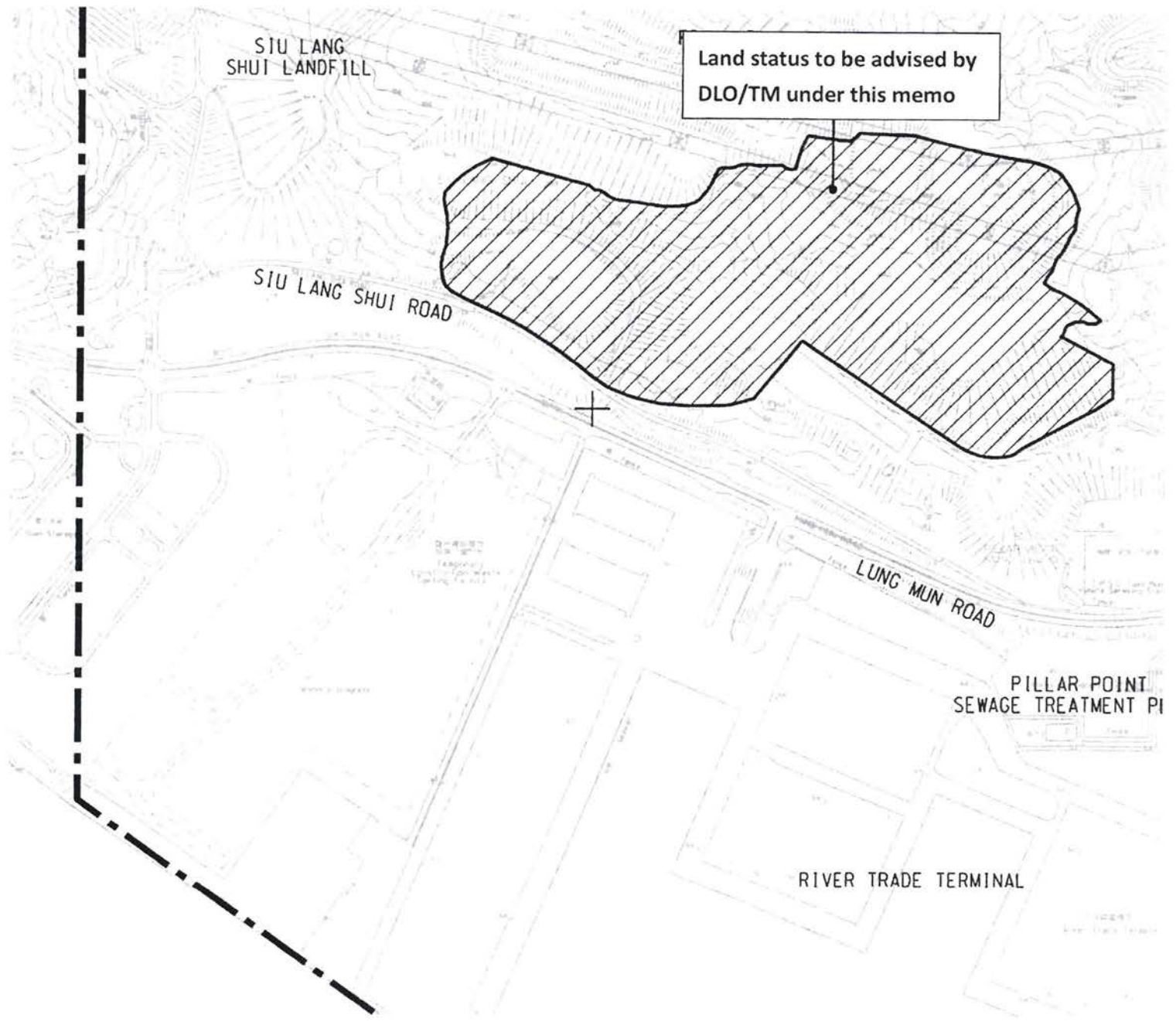


SIU LANG SHUI ROAD

LUNG MUN ROAD

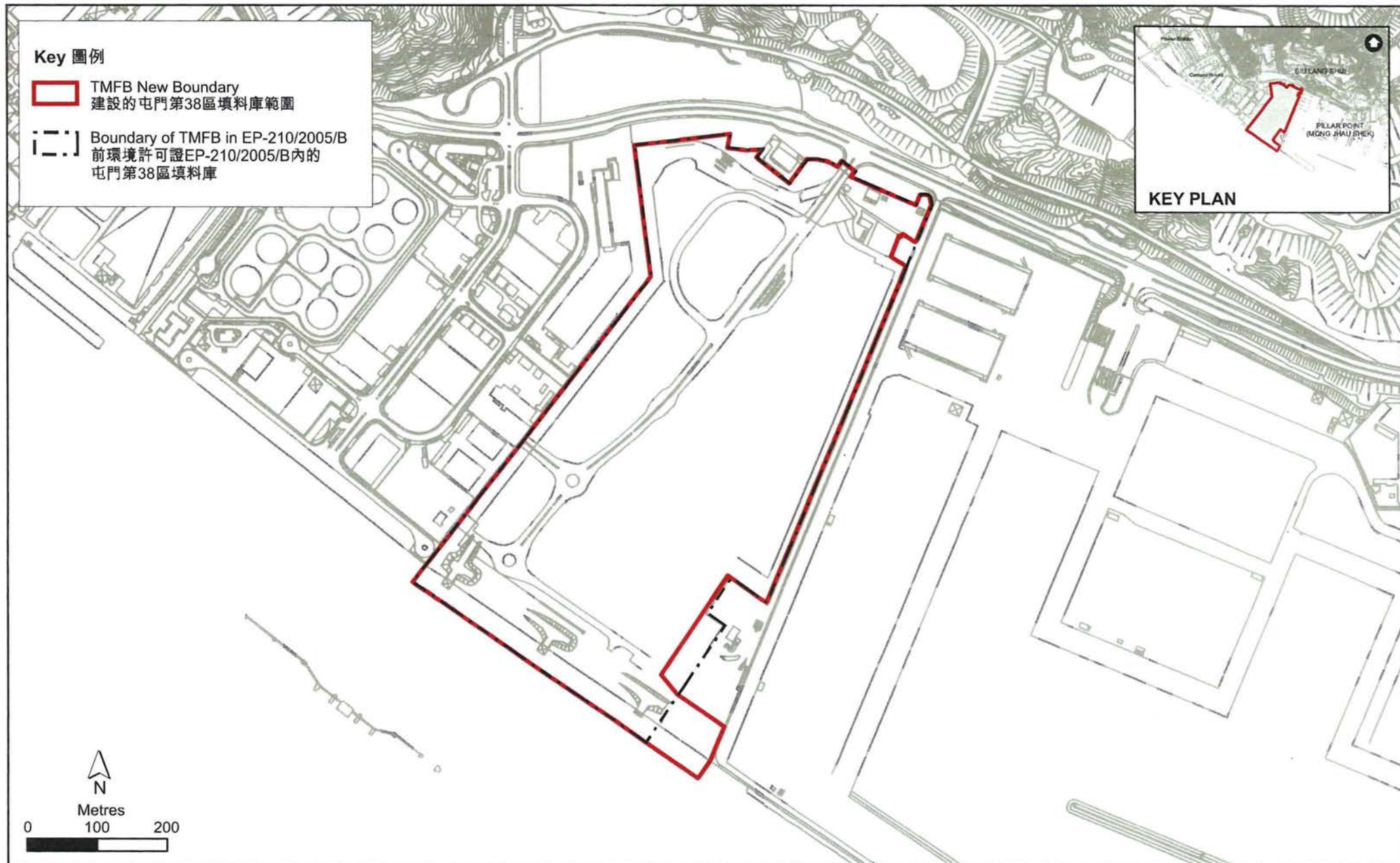
PILLAR POINT
SEWAGE TREATMENT PI

RIVER TRADE TERMINAL



Annex D

Proposed Figures for
Variation of Environmental
Permit



Key 圖例

 TMFB New Boundary
建設的屯門第38區填料庫範圍

 Boundary of TMFB in EP-210/2005/B
前環境許可證EP-210/2005/B內的屯門第38區填料庫

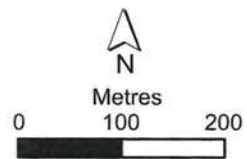
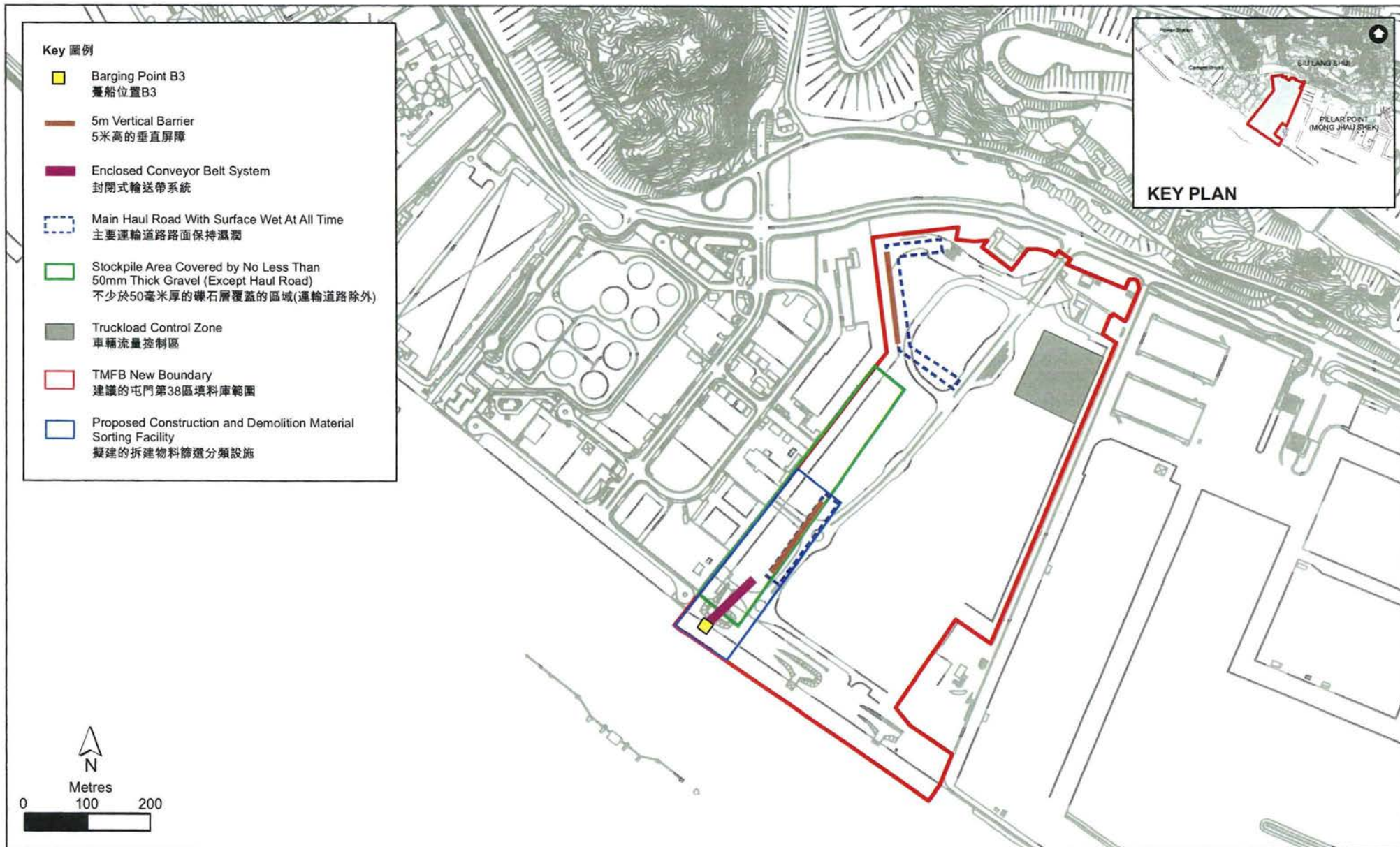
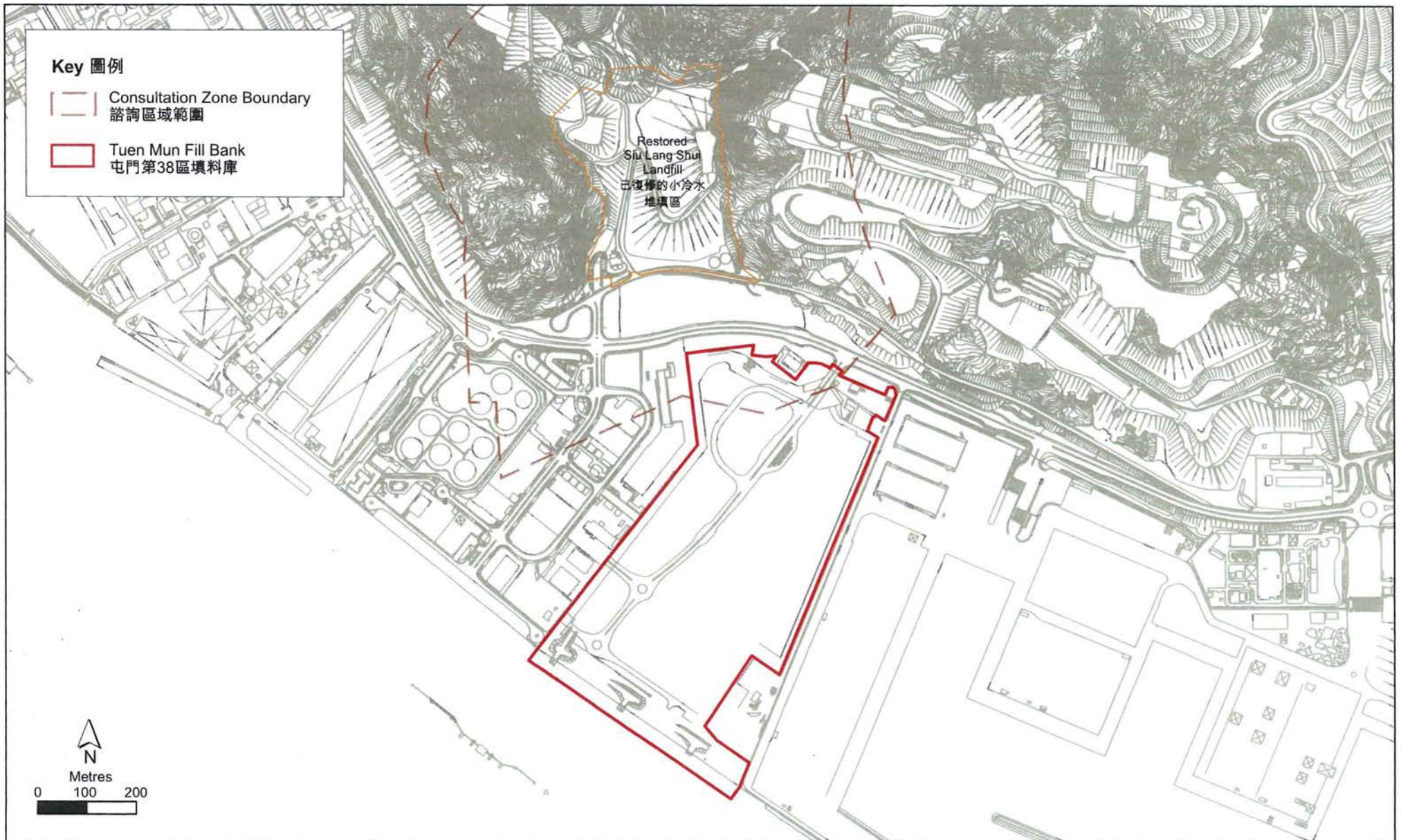


Figure 圖 D1

Expansion and Extension of Fill Bank at Tuen Mun Area 38 – Location Map
屯門第38區填料庫擴展及延長運作期 – 位置圖

File: T:\GIS\CONTRACT\0414816\mxd\0414816_TMF_Boundary.mxd (0414816i01.cdr)
Date: 02/08/2018





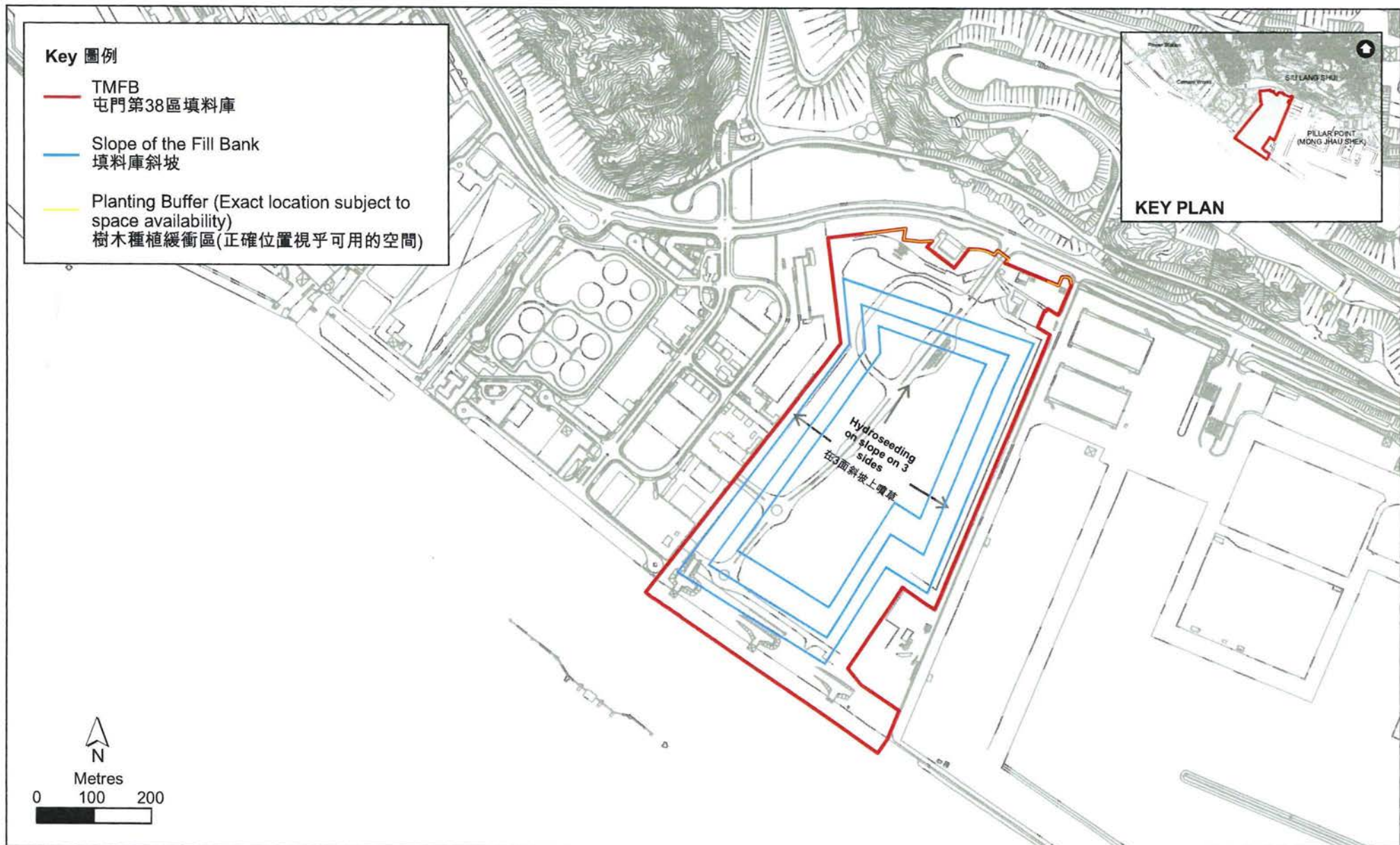
Figure圖 D3

Expansion and Extension of Fill Bank at Tuen Mun Area 38
屯門第38區填料庫擴展及延長運作期
Consultation Zone of the Restored Siu Lang Shui Landfill
已復修的小冷水堆填區的諮詢區域

FILE: 0414816f01
DATE: 02/08/2018

Environmental
Resources
Management



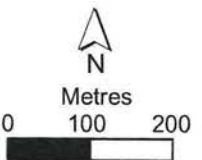


Key 圖例

- TMFB
屯門第38區填料庫
- Slope of the Fill Bank
填料庫斜坡
- Planting Buffer (Exact location subject to space availability)
樹木種植緩衝區(正確位置視乎可用的空間)



Hydroseeding
on slope on 3
sides
在3面斜坡上噴草



Figure圖 D4

Expansion and Extension of Fill Bank at Tuen Mun Area 38
屯門第38區填料庫擴展及延長運作期
Landscape and Visual Mitigation Measures
景觀及視覺的緩解措施

FILE: 0414816j01
DATE: 02/08/2018

Environmental
Resources
Management

