

**Contract No. ED/2018/04**

**Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron**

**Appendix N – Summary of Exceedance**

**Reporting Period: March 2023**

**(A) Exceedance Report for Air Quality**

Two (2) Action and Three (3) Limit Level exceedance of 24hr TSP monitoring was recorded in this reporting month.

<b>Monitoring Station</b>	<b>Start Date</b>	<b>Conc. (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>Level exceeded</b>
AM4(B)	1-Mar-23	<u>383.1</u>	Limit Level
AM4(B)	7-Mar-23	<u>280.6</u>	Limit Level
AM4(B)	13-Mar-23	<u>300.0</u>	Limit Level
AM4(B)	17-Mar-23	246.5	Action Level
AM4(B)	23-Mar-23	247.7	Action Level

No Action/ Limit Level exceedance of 1hr TSP monitoring was recorded in this reporting month.

**(B) Exceedance Report for Construction Noise**

No Action Level exceedance was recorded due to the documented complaint in the reporting month.

No Limit Level exceedance for construction noise monitoring was recorded in the reporting month.

**(C) Exceedance Report for Landfill Gas**

(NIL in the reporting month).

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**Environmental Team for Trunk Road T2**

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NOE No. 230301\_24hrTSP (AM4(B))      Exceedance Level: Limit

**Date of Air Quality Monitoring:** 1 March 2023

**Part A – Exceedance Summary Tables**

**Table I:            Parameter(s) – 24-hour TSP**

Station	Location	Starting Time	Weather Condition	Conc. (µg/m <sup>3</sup> )	Action Level (µg/m <sup>3</sup> )	Limit Level (µg/m <sup>3</sup> )	Level exceeded
AM4(B)	Flat 103 Cha Kwo Ling Village	09:00	Sunny	<b><u>383.1</u></b>	183.0	260.0	Limit

Note:            ***Bold Italic*** means Action Level exceedance  
***Bold Italic with underline*** means Limit Level exceedance

**Part B – Major Source of Parameter Monitored**

**Field Observation(s) and Finding(s)**

<p>(a) Statement of exceedance(s)</p> <p>24-hour TSP monitoring measured at AM4(B) on 1 March 2023 exceeded the limit level.</p>
<p>(b) Cause of exceedance(s)</p> <p>According to the observation of our field staff and the information provided by ER and Contractor, the Investigation result for exceedance identified at AM4(B) is/are as follow:</p> <ol style="list-style-type: none"> <li>1. Fluctuation of road traffic along the Cha Kwo Ling Road, a numerous of dump trucks and concrete mixer lorries passed by and raise the dust to the surrounding (Photo 1 &amp; 2).</li> <li>2. No major project related construction activities was observed during monitoring at AM4(B).</li> </ol>

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**Environmental Team for Trunk Road T2**

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**Photo 1**



**Photo 2**

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**Part C – Conclusion**

Based on the finding(s) and observation(s) above, we deduce the Limit Level exceedance of 24-hour TSP recorded at station AM4(B) on 1 March 2023 is due to fluctuation of road traffic, therefore, the exceedance is considered as **non-project related**.

**Part D – Recommendation**

Although the exceedance is considered as non-project related, contractor is reminded that the following construction dust mitigation measures shall always to be implemented on site to reduce/ minimize the generation of dust due to the construction activities.

1. Watering of the construction areas 12 times per day to reduce dust emissions.
2. Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions.
3. Open stockpiles shall be avoided or covered.
4. Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.
5. Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.
6. Imposition of speed controls for vehicles on unpaved site roads, 8 km per hour is the recommended limit.
7. Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.

**Part E – Follow-up Action Taken**

According to the Event and Action Plan of the EM&A Manual of Trunk Road T2 project under EP-458/2013C, the follow-up action of this exceedance is/are taken by ET as follow:

1. Informed the investigation result to other parties (i.e., IEC and ER).
2. ET will always pay attention to the implementation of mitigation measures by Contractor and advise the ER on the effectiveness of such measures.
3. A remeasurement was carried out on 8 March 2023, an action level exceedance was recorded. The monitoring results is tabulated as below:

Station	Location	Time	Weather Condition	Conc. (µg/m <sup>3</sup> )	Action Level (µg/m <sup>3</sup> )	Limit Level (µg/m <sup>3</sup> )	Level exceeded
AM4(B)	Flat 103 Cha Kwo Ling Village	0900 (8 Mar 2023) – 0900 (9 Mar 2023)	Sunny	<b>253.6</b>	173.0	260.0	Action

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NOE No. 230307\_24hrTSP (AM4(B))      Exceedance Level: **Limit**

**Date of Air Quality Monitoring:** 7 March 2023

**Part A – Exceedance Summary Tables**

**Table I:            Parameter(s) – 24-hour TSP**

Station	Location	Starting Time	Weather Condition	Conc. (µg/m <sup>3</sup> )	Action Level (µg/m <sup>3</sup> )	Limit Level (µg/m <sup>3</sup> )	Level exceeded
AM4(B)	Flat 103 Cha Kwo Ling Village	09:00	Sunny	<b><u>280.6</u></b>	183.0	260.0	Limit

Note:            ***Bold Italic*** means Action Level exceedance  
***Bold Italic with underline*** means Limit Level exceedance

**Part B – Major Source of Parameter Monitored**

**Field Observation(s) and Finding(s)**

(a) Statement of exceedance(s) 24-hour TSP monitoring measured at AM4(B) on 7 March 2023 exceeded the limit level.
(b) Cause of exceedance(s) According to the observation of our field staff and the information provided by ER and Contractor, the Investigation result for exceedance identified at AM4(B) is/are as follow:  <ol style="list-style-type: none"> <li>1. Fluctuation of road traffic along the Cha Kwo Ling Road, especially the completion of TKOLTT, a numerous of dump trucks from other construction site transport their C&amp;D material through Cha Kwo Ling Road to TKO Area 137 via TKOLTT (Photo 1 &amp; 2).</li> <li>2. Steel work was performed at Portion Q (near AM4(B)), no dusty activities (i.e Excavation, loading or unloading of C&amp;D material) were performed at this section.</li> </ol>

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**Photo 1**



**Photo 2**

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## Environmental Team for Trunk Road T2

### - Notification of Exceedances

#### Part C – Conclusion

Based on the finding(s) and observation(s) above, we deduce the Limit Level exceedance of 24-hour TSP recorded at station AM4(B) on 7 March 2023 is due to fluctuation of road traffic, therefore, the exceedance is considered as **non-project related**.

#### Part D – Recommendation

Although the exceedance is considered as non-project related, contractor is reminded that the following construction dust mitigation measures shall always to be implemented on site to reduce/ minimize the generation of dust due to the construction activities.

1. Watering of the construction areas 12 times per day to reduce dust emissions.
2. Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions.
3. Open stockpiles shall be avoided or covered.
4. Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.
5. Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.
6. Imposition of speed controls for vehicles on unpaved site roads, 8 km per hour is the recommended limit.
7. Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.

#### Part E – Follow-up Action Taken

According to the Event and Action Plan of the EM&A Manual of Trunk Road T2 project under EP-458/2013C, the follow-up action of this exceedance is/are taken by ET as follow:

1. Informed the investigation result to other parties (i.e., IEC and ER).
2. ET will always pay attention to the implementation of mitigation measures by Contractor and advise the ER on the effectiveness of such measures.
3. A remeasurement was carried out on 14 March 2023, an action level exceedance was recorded. The monitoring results is tabulated as below:

Station	Location	Time	Weather Condition	Conc. ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )	Level exceeded
AM4(B)	Flat 103 Cha Kwo Ling Village	0900 (14 Mar 2023) – 0900 (15 Mar 2023)	Sunny	<b>242.7</b>	173.0	260.0	Action

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NOE No. 230313\_24hrTSP (AM4(B))      Exceedance Level: **Limit**

**Date of Air Quality Monitoring:** 13 March 2023

**Part A – Exceedance Summary Tables**

**Table I:            Parameter(s) – 24-hour TSP**

Station	Location	Starting Time	Weather Condition	Conc. (µg/m <sup>3</sup> )	Action Level (µg/m <sup>3</sup> )	Limit Level (µg/m <sup>3</sup> )	Level exceeded
AM4(B)	Flat 103 Cha Kwo Ling Village	09:00	Sunny	<b><u>300.0</u></b>	183.0	260.0	Limit

Note:            ***Bold Italic*** means Action Level exceedance  
***Bold Italic with underline*** means Limit Level exceedance

**Part B – Major Source of Parameter Monitored**

**Field Observation(s) and Finding(s)**

(a) Statement of exceedance(s) 24-hour TSP monitoring measured at AM4(B) on 13 March 2023 exceeded the limit level.
(b) Cause of exceedance(s) According to the observation of our field staff and the information provided by ER and Contractor, the Investigation result for exceedance identified at AM4(B) is/are as follow:  <ol style="list-style-type: none"> <li>1. Fluctuation of road traffic along the Cha Kwo Ling Road, especially the completion of TKOLTT, a numerous of dump trucks from other construction site transport their C&amp;D material through Cha Kwo Ling Road to TKO Area 137 via TKOLTT (Photo 1 &amp; 2).</li> <li>2. Steel work was performed at Portion Q (near AM4(B)), no dusty activities (i.e Excavation, loading or unloading of C&amp;D material) were performed at this section.</li> </ol>



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**Photo 1**



**Photo 2**

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## Environmental Team for Trunk Road T2

### - Notification of Exceedances

#### Part C – Conclusion

Based on the finding(s) and observation(s) above, we deduce the Limit Level exceedance of 24-hour TSP recorded at station AM4(B) on 13 March 2023 is due to fluctuation of road traffic, therefore, the exceedance is considered as **non-project related**.

#### Part D – Recommendation

Although the exceedance is considered as non-project related, contractor is reminded that the following construction dust mitigation measures shall always to be implemented on site to reduce/ minimize the generation of dust due to the construction activities.

1. Watering of the construction areas 12 times per day to reduce dust emissions.
2. Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions.
3. Open stockpiles shall be avoided or covered.
4. Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.
5. Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.
6. Imposition of speed controls for vehicles on unpaved site roads, 8 km per hour is the recommended limit.
7. Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.

#### Part E – Follow-up Action Taken

According to the Event and Action Plan of the EM&A Manual of Trunk Road T2 project under EP-458/2013C, the follow-up action of this exceedance is/are taken by ET as follow:

1. Informed the investigation result to other parties (i.e., IEC and ER).
2. ET will always pay attention to the implementation of mitigation measures by Contractor and advise the ER on the effectiveness of such measures.
3. A remeasurement was carried out on 16 March 2023, an action level exceedance was recorded. The monitoring results is tabulated as below:

Station	Location	Time	Weather Condition	Conc. ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )	Level exceeded
AM4(B)	Flat 103 Cha Kwo Ling Village	0900 (16 Mar 2023) – 0900 (17 Mar 2023)	Sunny	<b>255.3</b>	173.0	260.0	Action

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NOE No. 230317\_24hrTSP (AM4(B))      **Exceedance Level: Action**

**Date of Air Quality Monitoring:** 17 March 2023

**Part A – Exceedance Summary Tables**

**Table I:            Parameter(s) – 24-hour TSP**

Station	Location	Starting Time	Weather Condition	Conc. (µg/m <sup>3</sup> )	Action Level (µg/m <sup>3</sup> )	Limit Level (µg/m <sup>3</sup> )	Level exceeded
AM4(B)	Flat 103 Cha Kwo Ling Village	09:00	Sunny	<b>246.5</b>	183.0	260.0	Action

Note:            ***Bold Italic*** means Action Level exceedance  
***Bold Italic with underline*** means Limit Level exceedance

**Part B – Major Source of Parameter Monitored**

**Field Observation(s) and Finding(s)**

(a) Statement of exceedance(s) 24-hour TSP monitoring measured at AM4(B) on 17 March 2023 exceeded the action level.
(b) Cause of exceedance(s) According to the observation of our field staff and the information provided by ER and Contractor, the Investigation result for exceedance identified at AM4(B) is/are as follow:  1. Fluctuation of road traffic along the Cha Kwo Ling Road, especially the completion of TKOLTT, a numerous of dump trucks from other construction site transport their C&D material through Cha Kwo Ling Road to TKO Area 137 via TKOLTT (Photo 1 & 2). 2. Steel work was performed at Portion Q (near AM4(B)), no dusty activities (i.e Excavation, loading or unloading of C&D material) were performed at this section.

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**Photo 1**



**Photo 2**

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#### Part C – Conclusion

Based on the finding(s) and observation(s) above, we deduce the Action Level exceedance of 24-hour TSP recorded at station AM4(B) on 17 March 2023 is due to fluctuation of road traffic, therefore, the exceedance is considered as **non-project related**.

#### Part D – Recommendation

Although the exceedance is considered as non-project related, contractor is reminded that the following construction dust mitigation measures shall always to be implemented on site to reduce/ minimize the generation of dust due to the construction activities.

1. Watering of the construction areas 12 times per day to reduce dust emissions.
2. Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions.
3. Open stockpiles shall be avoided or covered.
4. Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.
5. Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.
6. Imposition of speed controls for vehicles on unpaved site roads, 8 km per hour is the recommended limit.
7. Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.

#### Part E – Follow-up Action Taken

According to the Event and Action Plan of the EM&A Manual of Trunk Road T2 project under EP-458/2013C, the follow-up action of this exceedance is/are taken by ET as follow:

1. Informed the investigation result to other parties (i.e., IEC and ER).
2. ET will always pay attention to the implementation of mitigation measures by Contractor and advise the ER on the effectiveness of such measures.
3. A remeasurement was carried out on 24 March 2023, an action level exceedance was recorded. The monitoring results is tabulated as below:

Station	Location	Time	Weather Condition	Conc. ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )	Level exceeded
AM4(B)	Flat 103 Cha Kwo Ling Village	0900 (24 Mar 2023) – 0900 (25 Mar 2023)	Sunny	<b>244.8</b>	173.0	260.0	Action

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NOE No. 230323\_24hrTSP (AM4(B))      **Exceedance Level: Action**

**Date of Air Quality Monitoring:** 23 March 2023

**Part A – Exceedance Summary Tables**

**Table I:            Parameter(s) – 24-hour TSP**

Station	Location	Starting Time	Weather Condition	Conc. (µg/m <sup>3</sup> )	Action Level (µg/m <sup>3</sup> )	Limit Level (µg/m <sup>3</sup> )	Level exceeded
AM4(B)	Flat 103 Cha Kwo Ling Village	09:00	Sunny	<b><i>247.7</i></b>	183.0	260.0	Action

Note:            ***Bold Italic*** means Action Level exceedance  
                     ***Bold Italic with underline*** means Limit Level exceedance

**Part B – Major Source of Parameter Monitored**

**Field Observation(s) and Finding(s)**

(a) Statement of exceedance(s) 24-hour TSP monitoring measured at AM4(B) on 23 March 2023 exceeded the action level.
(b) Cause of exceedance(s) According to the observation of our field staff and the information provided by ER and Contractor, the Investigation result for exceedance identified at AM4(B) is/are as follow:  1. Fluctuation of road traffic along the Cha Kwo Ling Road, especially the completion of TKOLTT, a numerous of dump trucks from other construction site transport their C&D material through Cha Kwo Ling Road to TKO Area 137 via TKOLTT (Photo 1 & 2). 2. Steel work was performed at Portion Q (near AM4(B)), no dusty activities (i.e Excavation, loading or unloading of C&D material) were performed at this section.

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**Photo 1**



**Photo 2**

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#### Part C – Conclusion

Based on the finding(s) and observation(s) above, we deduce the Action Level exceedance of 24-hour TSP recorded at station AM4(B) on 23 March 2023 is due to fluctuation of road traffic, therefore, the exceedance is considered as **non-project related**.

#### Part D – Recommendation

Although the exceedance is considered as non-project related, contractor is reminded that the following construction dust mitigation measures shall always to be implemented on site to reduce/ minimize the generation of dust due to the construction activities.

1. Watering of the construction areas 12 times per day to reduce dust emissions.
2. Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions.
3. Open stockpiles shall be avoided or covered.
4. Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.
5. Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.
6. Imposition of speed controls for vehicles on unpaved site roads, 8 km per hour is the recommended limit.
7. Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.

#### Part E – Follow-up Action Taken

According to the Event and Action Plan of the EM&A Manual of Trunk Road T2 project under EP-458/2013C, the follow-up action of this exceedance is/are taken by ET as follow:

1. Informed the investigation result to other parties (i.e., IEC and ER).
2. ET will always pay attention to the implementation of mitigation measures by Contractor and advise the ER on the effectiveness of such measures.
3. A remeasurement was carried out on 31 March 2023, no action / limit level exceedance was recorded. The monitoring results is tabulated as below:

Station	Location	Time	Weather Condition	Conc. ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )	Level exceeded
AM4(B)	Flat 103 Cha Kwo Ling Village	0900 (31 Mar 2023) – 0900 (1 Apr 2023)	Sunny	123.2	173.0	260.0	N/A