



ANNEX D8

INVESTIGATION REPORTS OF
ENVIRONMENTAL QUALITY LIMIT
EXCEEDANCE

Investigation Report of Environmental Quality Limit Exceedance

Project	South East New Territories (SENT) Landfill Extension
Date	8 April 2025
Time	8:00 (8 April 2025) – 8:00 (9 April 2025)
Monitoring Location	AM2
Parameter	24-hour Total Suspended Particulates (TSP)
Limit Level	Action level: $>260 \mu\text{g}/\text{m}^3$ Limit level: $>260 \mu\text{g}/\text{m}^3$
Measured Level	$281 \mu\text{g}/\text{m}^3$
Possible reason	<p>From the meteorological data obtained from the SENTX on-site meteorological monitoring station, a predominantly easterly to southeasterly wind with highest wind speed 1.4 m/s was recorded on 8 and 9 April 2025 during the sampling event.</p> <p>On 8 and 9 April 2025 (during the sampling event), the ET site representative observed construction works (e.g. active stockpiling works) at Cell 4X area in the vicinity dust monitoring station AM2. This could be the potential cause for the exceedance. Based on this observation, the TSP exceedance at AM2 was deemed to be from Project-related activities.</p> <p>In accordance with Table 3.8b of the updated EM&A Manual, repeat measurement was conducted at AM2 on 14 April 2025 to confirm findings. Exceedance of 24-hour TSP Action/Limit Levels was recorded at AM2 ($428 \mu\text{g}/\text{m}^3$) during the sampling event, which showed consecutive dust impact at AM2.</p>
Action Taken / Action to be Taken	<p>In accordance with Table 3.8b of the updated EM&A Manual, the monitoring frequency at AM2 shall be increased to daily, until no exceedance of the Action/Limit Level. It should be noted that the turnaround time for the laboratory analysis of the dust filter paper is 5-10 working days and the preliminary results for the monitoring event conducted on 8 and 9 April 2025 were available on 14 April 2025. Repeat measurement was conducted on 14 April and 20 April 2025, respectively.</p> <p>The TSP monitoring result at AM2 on 14 April 2025 exceeded the Action/Limit Level. However, this exceedance was deemed to non-Project related since the background level of average 24-hr PM_{10} was $236 \mu\text{g}/\text{m}^3$ based on the record of Tseung Kwan O Air Quality Monitoring Station from EPD Air Quality Health Index Website (Please refer to Annex). Hence, the daily TSP monitoring at AM2 shall not be triggered. Afterwards, 24-hour TSP level of $129 \mu\text{g}/\text{m}^3$ (below Action and Limit Levels) was measured during the regular TSP monitoring event on 20 April 2025 at AM2.</p> <p>Examination of environmental performance of the Project will be continued during the weekly inspections. The Contractor is reminded to implement relevant and appropriate mitigation measures</p>

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	<p>according to the updated EM&A Manual to avoid any exceedance of the Action/Limit Levels.</p> <p>ET will continue to closely monitor the dust monitoring results and collect additional data for investigation and further review, if necessary.</p>
Remarks	-

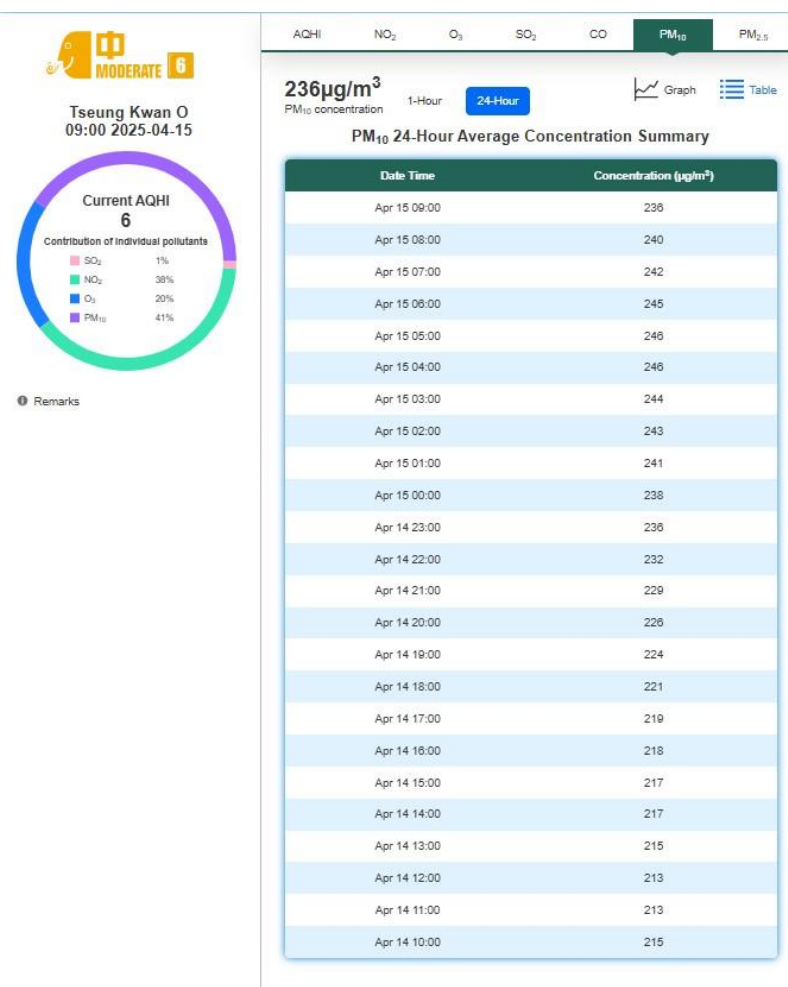
Prepared by: Solana Leung

Designation: Environmental Team

Date: 9 May 2025

Past 24-Hour Air Quality Summary

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Investigation Report of Environmental Quality Limit Exceedance

Project	South East New Territories (SENT) Landfill Extension
Date	14 April 2025
Time	8:00 (14 April 2025) – 8:00 (15 April 2025)
Monitoring Location	AM1, AM2, AM3 and AM4
Parameter	24-hour Total Suspended Particulates (TSP)
Limit Level	Action level: $>260 \mu\text{g} / \text{m}^3$ Limit level: $>260 \mu\text{g} / \text{m}^3$
Measured Level	AM1: $407 \mu\text{g} / \text{m}^3$ AM2: $428 \mu\text{g} / \text{m}^3$ AM3: $423 \mu\text{g} / \text{m}^3$ AM4: $375 \mu\text{g} / \text{m}^3$
Possible reason	<p>From the meteorological data obtained from the SENTX on-site meteorological monitoring station, a predominantly westerly to west-southwesterly wind with highest wind speed 1.0 m/s was recorded on 14 and 15 April 2025 during the sampling event.</p> <p>On 14 and 15 April 2025, dust and traffic emission from the SENT landfill in vicinity and located at the east of dust monitoring station AM1 were observed. The sample taken at AM1 on the day might not represent the operation dust emission from SENTX.</p> <p>In addition, no SENTX works which may lead to potential dust emission was conducted in the vicinity of dust monitoring locations AM1, AM2, AM3 and AM4 on the sampling day based on ET's representative on-site observations and construction and operation activities as described by the Contractor. Environmental deficiency was not observed during the weekly site inspection on 17 April 2025. The Contractor has implemented the dust control and mitigation measures recommended in the updated EM&A Manual.</p> <p>In addition, these exceedances were deemed to non-Project related since the background level of average 24-hr PM_{10} was $236 \mu\text{g} / \text{m}^3$ based on the record of Tseung Kwan O Air Quality Monitoring Station from EPD Air Quality Health Index Website (Please refer to Annex).</p> <p>In accordance with Table 3.8b of the updated EM&A Manual, repeat measurement was conducted on 20 April 2025 to confirm findings. 24-hour TSP level of $181 \mu\text{g} / \text{m}^3$ (AM1), $129 \mu\text{g} / \text{m}^3$ (AM2), $133 \mu\text{g} / \text{m}^3$ (AM3) and $117 \mu\text{g} / \text{m}^3$ (AM4) were measured during the sampling event and are below the Action and Limit Levels, which demonstrate no consecutive dust impact at AM1, AM2, AM3 and AM4.</p> <p>Due to presence of the influencing factor i.e. the abnormal condition of background level at Tseung Kwan O, SENT landfill, and no potential source from the Project-related activities in the vicinity of AM1, AM2, AM3 and AM4 which may lead to the high TSP level was identified, there is no adequate evidence showing that the TSP</p>

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	exceedance at AM1, AM2, AM3 and AM4 were deemed to Project-related activities.
Action Taken / Action to be Taken	<p>Examination of environmental performance of the Project will be continued during the weekly inspections. The Contractor is reminded to implement relevant and appropriate mitigation measures according to the updated EM&A Manual to avoid any exceedance of the Action/Limit Levels.</p> <p>ET will continue to closely monitor the dust monitoring results and collect additional data for investigation and further review, if necessary.</p>
Remarks	-

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