

Annex G5

Investigation Reports of
Environmental Quality
Limit Exceedance

Investigation Report of Environmental Quality Limit Exceedance

Project	South East New Territories (SENT) Landfill Extension
Date	5 June 2023
Time	11:00
Monitoring Location	LFG24
Parameter	Carbon Dioxide
Limit Levels	4.7%
Measured Level	8.4%
Possible reason	<p>During the landfill gas monitoring event, carbon dioxide was not detected at the landfill gas monitoring wells adjacent to LFG24 (LFG23: 0.0% and GP7: 0.1%). All landfill gas (methane) monitoring results are well within the respective Limit Levels. In addition, no exceedance of Limit Levels for landfill gas monitoring at service voids, utilities pits and manholes (conducted on 5 June 2023) was recorded in the reporting period. Hence, there is a low possibility that the elevation of carbon dioxide level at LFG24 is due to landfill gas migration from SENTX operation or at least it is not conclusive to base on these results to demonstrate that the exceedance was due to landfill gas migration.</p> <p>Repeat measurement was conducted on 11 July 2023 to confirm findings. No carbon dioxide was detected at LFG24 during the sampling event, which demonstrate no consecutive landfill gas impact at the monitoring well. It is possible that the elevated level of carbon dioxide detected at LFG24 on 5 June 2023 could be due to background fluctuation.</p> <p>Due to the background influencing factor and the subsequent monitoring result at LFG24 did not show any exceedance, there is no adequate evidence showing that the carbon dioxide exceedance measured at LFG24 on 5 June 2023 was deemed to Project-related activities.</p>
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 and Limit Levels.</p> <p>ET will continue to closely monitor the landfill gas monitoring results and collect additional data for investigation and further review, if necessary.</p>
Remarks	-

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 Designation: Environmental Team
 Date: 11 July 2023