

Annex F4

Investigation Reports of
Environmental Quality
Limit Exceedance

Investigation Report of Environmental Quality Limit Exceedance

Project	South East New Territories (SENT) Landfill Extension
Date	15 July 2021
Time	14:39 and 14:48 (Duplicate)
Monitoring Location	DP4T
Parameter	Surface Water (pH)
Action / Limit Levels	Action level: >8.39 Limit level: >8.40
Measured Level	DP4T: 8.54 & 8.52 DP4T (Duplicate): 8.54 & 8.62
Possible reason	<p>From the on-site rainfall record of July 2021, no heavy rainfall events were recorded before the sampling event. Environmental deficiency was not observed during the weekly site inspection on 15 July 2021 morning before the surface water monitoring.</p> <p>During the sampling event, no raining was recorded and no other sources (e.g. Clearwater Bay Country Park, other project sites) was identified in the vicinity of surface water channel leading to DP4T which might cause the pH exceedance at DP4T. It was observed that the surface water collected at DP4T channel was not treated by the Wetsep prior to discharge. The untreated surface water discharged at DP4T could be the potential source of pH contributing to the exceedance. Based on the above, the pH exceedance at DP4T 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>In addition, the Contractor shall ensure that all surface water at DP4T is treated before discharge and the Wetsep is functioning properly at all times.</p>
Remarks	-

Prepared by: Abbey Lau

Designation: Environmental Team

Date: 23 July 2021

Investigation Report of Environmental Quality Limit Exceedance

Project	South East New Territories (SENT) Landfill Extension
Date	29 July 2021
Time	14:24 and 14:45 (Duplicate)
Monitoring Location	DP6
Parameter	Surface Water (Suspended Solids (SS))
Action / Limit Levels	Action level: >11.7 mg/L Limit level: >12.7 mg/L
Measured Level	DP6: 123 mg/L DP6 (Duplicate): 120 mg/L
Possible reason	<p>From the on-site rainfall record of July 2021, heavy rainfall event was recorded on 25 July 2021 before the sampling event. Amber rainstorm warning signal was also issued by the Hong Kong Observatory on 25 July 2021.</p> <p>No works which may lead to potential SS increase (e.g. active stockpiling and excavation works) was conducted in the vicinity of surface water channel leading to DP6 on the sampling day based on on-site observations and construction activities described by the Contractor.</p> <p>Environmental deficiency was observed during the sampling event. It was observed that the muddy surface water collected at DP6 channel was not treated by the Wetsep prior to discharge. The untreated surface water discharged at DP6 could be the potential source of SS contributing to the exceedance.</p> <p>Based on the above, the SS exceedance at DP6 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>In addition, the Contractor shall ensure that all surface water at DP6 is treated before discharge and the Wetsep is functioning properly at all times.</p>
Remarks	-

Prepared by: Abbey Lau
 Designation: Environmental Team
 Date: 6 August 2021

Investigation Report of Environmental Quality Limit Exceedance

Project	South East New Territories (SENT) Landfill Extension
Date	29 July 2021
Time	14:24 and 14:45 (Duplicate)
Monitoring Location	DP6
Parameter	Surface Water (Dissolved Oxygen (DO))
Action / Limit Levels	Action level: <5.80 mg/L Limit level: <5.42 mg/L
Measured Level	DP6: 5.01 mg/L & 5.35 mg/L DP6 (Duplicate): 5.57 mg/L & 5.50 mg/L
Possible reason	<p>From the on-site rainfall record of July 2021, heavy rainfall event was recorded on 25 July 2021 before the sampling event. Amber rainstorm warning signal was also issued by the Hong Kong Observatory on 25 July 2021.</p> <p>During the sampling event, excessive algae growth was observed at DP6 channel. The slow-moving water at DP6 and the untreated muddy surface water discharged at DP6 could be the potential source of DO contributing to the exceedance.</p> <p>Based on the above, the DO exceedance at DP6 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>In addition, the Contractor shall remove the algae accumulated at DP6 channel regularly and avoid accumulation of stagnant water at the surface water channels.</p>
Remarks	-

Prepared by: Abbey Lau
 Designation: Environmental Team
 Date: 6 August 2021