

Investigation Report of Environmental Quality Limit Exceedance

Project	South East New Territories (SENT) Landfill Extension
Date	3 July 2020
Time	DP4T: 15:06 DP6: 14:36 and 14:45 (Duplicate)
Monitoring Location	DP4T and DP6
Parameter	Surface Water (Suspended Solids (SS))
Action / Limit Levels	DP4T and DP6: Action level: >11.7 mg/L Limit level: >12.7 mg/L
Measured Level	DP4T: 18.6 mg/L DP6: 14.0 mg/L DP6 (Duplicate): 14.4 mg/L
Possible reason	<p>DP4T:</p> <p>From the on-site rainfall record of July 2020, rainfall event was recorded on 2 July 2020 before the sampling event on 3 July 2020. On 2 July 2020, muddy surface water overflow from other project site to the sediment trap leading to DP4T was observed. The sample taken at DP4T on the day might not represent the surface water runoff from SENTX and further upstream.</p> <p>In addition, 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 DP4T on the sampling day based on on-site observations and construction activities described by the Contractor. Site runoff discharged to the DP4T channel was treated by the Wetsep prior to discharge. Wetsep near DP4T and sediment trap were functioning properly during the sampling event. Environmental deficiency was not observed during the weekly site inspection on 2 July 2020 morning. The Contractor has complied with the recommendations and conditions outlined in the updated EM&A Manual.</p> <p>Due to presence of the influencing factor other project site and no potential source from the Project-related activities which may lead to SS increase was identified, there is no adequate evidence showing that the SS exceedance at DP4T was deemed to Project-related activities.</p> <p>It should be noted that although the measured SS level exceeded the limit level of the EM&A programme, it is still well within the WPCO effluent discharge limit of SS for the Junk Bay Water Control Zone (30 mg/L). The discharge of surface water with this SS level from DP4T will not cause adverse water quality impact to the Junk Bay Water Control Zone.</p>

	<p>DP6: From the on-site rainfall record of July 2020, rainfall event was recorded on 2 July 2020 before the sampling event on 3 July 2020. On 2 July 2020, muddy surface water overflow from other project site to the temporary drain along southern site boundary leading to DP6 was observed. The sample taken at DP6 on the day might not represent the surface water runoff from SENTX and further upstream.</p> <p>In addition, 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. Site runoff discharged to the DP6 channel was treated by the Wetsep prior to discharge. Wetsep near DP6 was functioning properly during the sampling event. Environmental deficiency was not observed during the weekly site inspection on 2 July 2020 morning. The Contractor has complied with the recommendations and conditions outlined in the updated EM&A Manual.</p> <p>Due to presence of the influencing factor other project site and no potential source from the Project-related activities which may lead to SS increase was identified, there is no adequate evidence showing that the SS exceedance at DP6 was deemed to Project-related activities.</p> <p>It should be noted that although the measured SS level exceeded the limit level of the EM&A programme, it is still well within the WPCO effluent discharge limit of SS for the Junk Bay Water Control Zone (30 mg/L). The discharge of surface water with this SS level from DP6 will not cause adverse water quality impact to the Junk Bay Water Control Zone.</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 Level.</p> <p>In addition, the Contractor was reminded to discuss the surface water overflow and drainage issues with WSD/ CEDD so that there will be no surface water runoff from other project site to the SENTX boundary.</p>
Remarks	-

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