Annex F3

Project	South East New Territories (SENT) Landfill
	Extension
Date	8 March 2019
Time	10:25 and 10:41 (Duplicate)
Monitoring Location	DP3
Parameter	Surface Water (pH)
Action / Limit Levels	Action level: >8.88
	Limit level: >9.28
Measured Level	DP3: 9.29 & 9.32
	DP3 (Duplicate): 9.42 & 9.42
Possible reason	No construction works were carried out at the SENT Landfill restored area (i.e. catchment of DP3 within the Project boundary) and in the vicinity of DP3 with reference to the site record on 8 March 2019. The absence of works might suggest that the pH exceedance at DP3 is deemed to be unrelated to the Project and might be caused by other influencing factors from the upstream area (e.g. existing SENT Landfill and Clearwater Bay Country Park).
Action Taken / Action to be Taken	Examination of environmental performance of the Project will be continued during the weekly inspection. 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.
Remarks	-

Prepared by: Abbey Lau

Designation: Environmental Team

Date: 13 March 2019

Project	South East New Territories (SENT) Landfill
Date	Extension 8 March 2019
Time	DP3: 10:25 and 10:41 (Duplicate)
Time	DP4: 11:00
Manitarina Taratian	DP3 and DP4
Monitoring Location	
Parameter	Surface Water (Suspended Solids (SS))
Action / Limit Levels	DP3: Action level: >209.3 mg/L
	Limit level: >217.0 mg/L
	DP4: Action level: >11.7 mg/L
	Limit level: >12.7 mg/L
Measured Level	DP3: 310 mg/L
	DP3 (Duplicate): 308 mg/L
	DP4: 22.9 mg/L
Possible reason	No construction works were carried out at the SENT Landfill restored area and infrastructure area which are within the SENTX site boundary and upstream of the sampling points during the surface water sampling (i.e. catchment of DP3 and DP4 within the Project boundary) and in the vicinity of DP3 and DP4 with reference to the site record on 8 March 2019. The absence of works might suggest that the SS exceedance at DP3 and DP4 are deemed to activities that are not related to the Project. The exceedance might be caused by other influencing factors from the upstream areas (e.g. existing SENT Landfill and Clearwater Bay Country Park).
Action Taken / Action to be Taken	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.
Remarks	-

Prepared by: Abbey Lau

Designation: Environmental Team

Date: 20 March 2019

Project	South East New Territories (SENT) Landfill Extension
Date	8 May 2019
Time	15:20
Monitoring Location	DP6
Parameter	Surface Water (pH)
Action / Limit Levels	Action level: >8.39
	Limit level: >9.40
Measured Level	DP6: 9.24 & 9.29
Possible reason	According to the site record on 8 May 2019 provided by the Contractor, concrete for bar bending yield, which might be a potential source of pH increase, and excavation for temporary drainage channel near DP6 channel were carried out in the vicinity of DP6. However, during the sampling event, no construction works in the vicinity of DP6 and no potential surface water discharge or overflow to DP6 channel were observed. A temporary trench and berm were constructed along the DP6 channel to collect the surface runoff which was further treated by the Wetsep prior to discharge. Wetsep near DP6 was functioning properly with reference to the Wetsep operation record on 8 May 2019. The Contractor has complied with the recommendations and conditions outlined in the updated EM&A Manual. In addition, part of the DP6 channel was relocated to hill side and the construction of this part of DP6 channel was completed on 15 April 2019. The concrete of the relocated DP6 channel should have been well settled on the sampling day which shall not be the potential source leading to the increase of pH of the surface water. Based on the above, there is no adequate evidence showing that the pH exceedance at DP6 was deemed to Project-related activities. The exceedance might be caused by other influencing factors from the upstream areas.
	The nearest weekly site inspection was carried out on 9 May 2019 to audit the site practices and mitigation measures, where applicable mitigation measures on surface water quality were found implemented yet with deficiencies. The Contractor was reminded to review the drainage system near DP6 to avoid accumulation of stagnant water and ensure the Wetsep is functioning at all times.
Action Taken / Action to be Taken	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.

	In addition, the Contractor shall review (i) the efficiency, treatment capacity and the number of the Wetsep at DP6, and (ii) the drainage system of the whole site to avoid potential direct discharge or overflow of site water to DP6 channel.
Remarks	-

Prepared by: Abbey Lau
Designation: Environmental Team
Date: 5 June 2019

Project	South East New Territories (SENT) Landfill Extension
Date	8 May 2019
Time	15:20
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: 70.8 mg/L
Possible reason Action Taken / Action to	According to the site record on 8 May 2019 provided by the Contractor, concrete for bar bending yield and excavation for temporary drainage channel near DP6 channel, which might be a potential source of SS increase, were carried out in the vicinity of DP6. However, during the sampling event, no construction works in the vicinity of DP6 and no potential surface water discharge or overflow to DP6 channel were observed. A temporary trench and berm were constructed along the DP6 channel to collect the surface runoff which was further treated by the Wetsep prior to discharge. Wetsep near DP6 was functioning properly with reference to the Wetsep operation record on 8 May 2019. The Contractor has complied with the recommendations and conditions outlined in the updated EM&A Manual. Based on the above, there is no adequate evidence showing that the SS exceedance at DP6 was deemed to Project-related activities. The exceedance might be caused by other influencing factors from the upstream areas (e.g. Clearwater Bay Country Park). The nearest weekly site inspection was carried out on 9 May 2019 to audit the site practices and mitigation measures, where applicable mitigation measures on surface water quality were found implemented yet with deficiencies. The Contractor was reminded to review the drainage system near DP6 to avoid accumulation of stagnant water and ensure the silt removal facility is functioning at all times.
Action Taken / Action to be Taken	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.
	In addition, the Contractor shall review (i) the efficiency, treatment capacity and the number of the Wetsep at DP6, and (ii) the drainage system of the whole site to avoid potential direct discharge or overflow of site water to DP6 channel. The

	Contractor shall also review the design of the DP6 channel near the hillside (e.g. maintain sufficient set back from the site boundary and proper trapezoidal channel structure) to minimize the potential surface runoff to DP6 channel from the Country Park.
Remarks	-

Prepared by: Abbey Lau
Designation: Environmental Team
Date: 5 June 2019

Project	South East New Territories (SENT) Landfill Extension
Date	23 May 2019
Time	DP3: 14:39 and 15:02 (Duplicate)
	DP4T: 15:55
	DP6: 15:35
Monitoring Location	DP3, DP4T and DP6
Parameter	Surface Water (pH)
Action / Limit Levels	DP3: Action level: >8.88
	Limit level: >9.28
	DP4T and DP6: Action level: >8.39
	Limit level: >8.40
Measured Level	DP3: 9.96 & 9.98
	DP3 (Duplicate): 9.78 & 9.79
	DP4T: 10.92 & 10.80
	DP6: 9.65 & 9.60
Possible reason	DP3:
	No construction works were carried out at the SENT Landfill restored area (i.e. catchment of DP3 within the Project boundary) and in the vicinity of DP3 with reference to the site record on 23 May 2019. The absence of works might suggest that the pH exceedance at DP3 is deemed to activities that are not related to the Project. The exceedance might be caused by other influencing factors from the upstream areas (e.g. existing SENT Landfill and Clearwater Bay Country Park).
	Concreting work was observed being carried out at the sedimentation trap area, which might be a potential source of pH increase. The concrete at the sedimentation trap area may not be well settled and washed off on the sampling day due to the rainy weather which might be a potential source leading to the increase of pH of the surface water. The surface water at the sedimentation trap area was observed to be further pumped to a pit at Cell 1 and discharged to the DP4T channel. The water was not treated by the Wetsep prior to discharge to the DP4T.
	Based on the above, the pH exceedance at DP4T was deemed to Project-related activities.
	DP6: According to the site record on 23 May 2019 provided by the Contractor, the works in the vicinity of DP6 channel included filling up at western perimeter bund and stockpile at Cell 1X, erection of formwork and repair of footing at GVL building &

Remarks	-
be Taken	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. In addition, the Contractor shall review (i) the drainage system of the whole site to avoid potential direct discharge or overflow of contaminated surface water runoff to DP4T channel, and (ii) the treatment capacity and the number of the Wetsep at DP6.
Action Taken / Action to	Project-related activities and with applicable mitigation measures implemented, there is no adequate evidence showing that the pH exceedance at DP6 was deemed to Project-related activities. The exceedance might be caused by other influencing factors. Examination of environmental performance of the Project will be
	Besides, weekly site inspection was carried out in the morning of the same day of sampling event to audit the site practices and mitigation measures, where applicable mitigation measures on surface water quality were found implemented. Yet during the sampling event (occurred after the rainfall), it was observed that not all surface runoff discharged to the channel leading to DP6 was treated by the Wetsep due to insufficient capacity of the Wetsep near DP6. The Contractor was reminded to review the treatment capacity and the number of the Wetsep at DP6.
	leachate treatment plant areas, which were not potential sources of pH increase. During the sampling event, no construction works in the vicinity of DP6 was observed.

Prepared by: Abbey Lau

Designation: Environmental Team

12 June 2019

Project	South East New Territories (SENT) Landfill Extension
Date	23 May 2019
Time	DP3: 14:39 and 15:02 (Duplicate)
	DP4T: 15:55
	DP6: 15:35
Monitoring Location	DP3, DP4T and DP6
Parameter	Surface Water (Suspended Solids (SS))
Action / Limit Levels	DP3: Action level: >209.3 mg/L
	Limit level: >217.0 mg/L
	DP4T and DP6: Action level: >11.7 mg/L
	Limit level: >12.7 mg/L
Measured Level	DP3: 858 mg/L
	DP3 (Duplicate): 838 mg/L
	DP4T: 191 mg/L
	DP6: 696 mg/L
Possible reason	DP3: No construction works were carried out at the SENT Landfill restored area (i.e. catchment of DP3 within the Project boundary) and in the vicinity of DP3 with reference to the site record on 23 May 2019. The absence of works might suggest that the SS exceedance at DP3 is deemed to activities that are not related to the Project. The exceedance might be caused by other influencing factors from the upstream areas (e.g. existing SENT Landfill and Clearwater Bay Country Park).
	DP4T: During the weekly site inspection in the morning, muddy water was observed at the sedimentation trap area which was pumped to a pit at Cell 1 and further discharged to the DP4T channel. The water was not treated by the Wetsep prior to discharge. This is a potential source of SS to the surface water at DP4T. Based on the above, the SS exceedance at DP4T was deemed to Project-related activities. DP6: During the sampling event, no construction works in the vicinity of DP6 was observed. However, two stockpiles of dusty materials was observed to be placed at the hill side of the DP6 channel and exposed soil was observed next to the DP6 channel (not being covered by impermeable sheet or the runoff in the area will pass through any silt trap). These are the potential sources of SS increase in the

	Besides, during the sampling event (occurred after the rainfall), it was observed that not all muddy surface runoff discharged to the channel leading to DP6 was treated by the Wetsep due to insufficient capacity of the Wetsep near DP6.
	Based on the above, the SS exceedance at DP6 was deemed to Project-related activities.
Action Taken / Action to be Taken	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.
	In addition, the Contractor shall (i) remove/cover the stockpiles of dusty materials and exposed soil areas near DP6, (ii) review the treatment capacity and the number of the Wetsep at DP6, and (iii) review the drainage system of the whole site to avoid potential direct discharge or overflow of muddy surface runoff to DP4T and DP6 channels.
Remarks	-

Prepared by: Abbey Lau

Designation: Environmental Team

Date: 12 June 2019

Project	South East New Territories (SENT) Landfill Extension
Date	6 June 2019
Time	DP4T: 15:39
Monitoring Location	DP4T
Parameter	Surface Water (Dissolved Oxygen (DO))
Action / Limit Levels	DP4T: Action level: <5.80 mg/L
	Limit level: <5.42 mg/L
Measured Level	DP4T: 5.19 mg/L & 5.12 mg/L
Possible reason	During the sampling event, the water level was observed to be above the weir plate for sampling. As there was flow of water from upstream to downstream, it was agreed on-site with IEC and GVL representatives that water monitoring and sampling should be carried out. From the on-site rainfall record of June 2019, heavy rainfall event was recorded on 4 June 2019. Amber rainstorm warning signal was also issued by the Hong Kong Observatory on 4 June 2019 before the sampling event on 6 June 2019. Site staff of the Contractor reported that during the event, backflow of muddy water from downstream well passed DP4T along the channel. The site rainfall record showed that there was little rainfall on 6 June 2019. It is therefore a high possibility that the high level of water observed at DP4T was due to backflow water from the TKO Fill Bank. The sample taken at DP4T on the day might not represent the surface water runoff from SENTX and further upstream. In addition, after checking the site record of 6 June 2019 provided by the Contractor, the works in the vicinity of surface water channel leading to DP4T included erecting formwork, concreting works for Culvert X9 and rebar fixing at sediment trap, which are not potential sources of DO decrease. Due to presence of the influencing factor from the downstream and no potential source leading to DO decrease from the Project-related activities, there is no adequate evidence showing that the DO exceedance at DP4T was deemed to Project-related activities.
A di TE 1 / A di d	
Action Taken / Action to be Taken	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.
	In addition, the Contractor shall review (i) review the drainage system of the site and discuss the drainage issues of the TKO Fill

	Bank with CEDD so that there will be no backflow of surface water runoff from TKO Fill Bank to the SENTX boundary.
Remarks	-

Prepared by: Abbey Lau
Designation: Environmental Team
Date: 26 June 2019

Project	South East New Territories (SENT) Landfill Extension
Date	6 June 2019
Time	DP4T: 15:39
	DP6: 15:19
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: 125 mg/L
	DP6: 473 mg/L
Possible reason	DP4T: During the sampling event, the water level was observed to be above the weir plate for sampling. As there was flow of water from upstream to downstream, it was agreed on-site with IEC and GVL representatives that water monitoring and sampling should be carried out.
	From the on-site rainfall record of June 2019, heavy rainfall event was recorded on 4 June 2019. Amber rainstorm warning signal was also issued by the Hong Kong Observatory on 4 June 2019 before the sampling event on 6 June 2019. Site staff of the Contractor reported that during the event, backflow of muddy water from downstream well passed DP4T along the channel. The site rainfall record showed that there was little rainfall on 6 June 2019. It is therefore a high possibility that the high level of water observed at DP4T was due to backflow water from the TKO Fill Bank. The sample taken at DP4T on the day might not represent the surface water runoff from SENTX and further upstream.
	In addition, after checking the site record of 6 June 2019 provided by the Contractor, the works in the vicinity of surface water channel leading to DP4T included erecting formwork, rebar fixing and concreting works for Culvert X9 at sediment trap, which are not potential sources of SS increase.
	During the weekly site inspection in the morning of the same day of sampling event, the concrete berm along the DP4T channel was observed to be damaged and exposed soil was accumulated along the berm of the DP4T channel, which might be a potential source of SS to the surface water at DP4T.
	Due to presence of the influencing factor from the downstream, there is no adequate evidence showing that the SS exceedance at DP4T was only deemed to Project-related activities.

DP6:

During the sampling event, the water level was observed to be above the weir plate for sampling. As there was flow of water from upstream to downstream, it was agreed on-site with IEC and GVL representatives that water monitoring and sampling should be carried out.

From the on-site rainfall record of June 2019, heavy rainfall event was recorded on 4 June 2019. Amber rainstorm warning signal was also issued by the Hong Kong Observatory on 4 June 2019 before the sampling event on 6 June 2019. Site staff of the Contractor reported that during the event, backflow of muddy water from downstream well passed DP6 along the channel. The site rainfall record showed that there was little rainfall on 6 June 2019. It is therefore a high possibility that the high level of water observed at DP6 was due to backflow water from the TKO Fill Bank. The sample taken at DP6 on the day might not represent the surface water runoff from SENTX and Clearwater Bay Country Park.

Soil compaction work was observed next to the DP6 channel during the sampling event. In addition, after checking the site record of 6 June 2019 provided by the Contractor, the works in the vicinity of the channel leading to DP6 included filling up at Western Perimeter Bund at Cell 1X which is a potential source of SS increase; and lifting operation, erection of formwork and rebar fixing at leachate treatment plant areas, which are not potential sources of SS increase. The water discharged to the DP6 channel was treated by the Wetsep.

However, environmental deficiencies were observed. During the sampling event, a stockpile of dusty materials was observed placing at the hill side of the channel leading to DP6 and exposed soil was observed next to the channel (not being covered by tarpaulin sheet or the muddy runoff in the area did pass through any silt trap). Besides, during the sampling event, it was observed that not all muddy water in the channel was treated by the Wetsep due to insufficient capacity of the Wetsep near DP6. The Contractor was reminded to remove/cover and minimize the stockpiles and exposed soil, and review the treatment capacity and the number of the Wetsep at DP6.

Due to presence of the influencing factor from the downstream, there is no adequate evidence showing that the SS exceedance at DP6 was only deemed to Project-related activities.

Action Taken / Action to be Taken

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.
	In addition, the Contractor shall (i) remove/cover and minimize the stockpiles and exposed soil, (ii) review the treatment capacity and the number of the Wetsep at DP6, and (iii) discuss the drainage issues of the TKO Fill Bank with CEDD so that there will be no blackflow of surface water runoff from TKO Fill Bank to the SENTX boundary.
Remarks	-

Prepared by: Abbey Lau
Designation: Environmental Team
Date: 28 June 2019

Project	South East New Territories (SENT) Landfill Extension
Date	14 June 2019
Time	DP4T: 15:26
Monitoring Location	DP4T
Parameter	Surface Water (Suspended Solids (SS))
Action / Limit Levels	DP4T: Action level: >11.7 mg/L
	Limit level: >12.7 mg/L
Measured Level	DP4T: 62.2 mg/L
Possible reason	During the sampling event, the water level was observed to be above the weir plate for sampling. As there was flow of water from upstream to downstream, it was agreed on-site with IEC and GVL representatives that water monitoring and sampling should be carried out. From the on-site rainfall record of June 2019, heavy rainfall events were recorded on 10, 11 and 13 June 2019. Amber rainstorm warning signal was also issued by the Hong Kong Observatory on 13 June 2019 before the sampling event on 14 June 2019. Site staff of the Contractor reported that during the event, backflow of muddy water from downstream well passed DP4T along the channel. The site rainfall record showed that there was little rainfall on 14 June 2019. It is therefore a high possibility that the high level of water observed at DP4T was due to backflow water from the TKO Fill Bank. The sample taken at DP4T on the day might not represent the surface water runoff from SENTX and further upstream. However, environmental deficiencies were observed. During the sampling event, excavation work was observed next to the DP4T channel and exposed soil was observed next to the channel (not being covered by tarpaulin sheet or the muddy runoff in the area didn't pass through any silt trap), which are potential source of SS increases. During the weekly site inspection carried on 13 June 2019 morning before the sampling event, the concrete berm along the DP4T channel was observed to be damaged and exposed soil was accumulated along the berm of the DP4T channel which might be a potential source of SS to the surface water at DP4T. Due to presence of the influencing factor from the downstream, there is no adequate evidence showing that the SS exceedance at DP4T was only deemed to Project-related activities.
Action Taken / Action to be Taken	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.
	In addition, the Contractor shall (i) remove/cover and minimize the stockpiles and exposed soil, and (ii) discuss the drainage issues of the TKO Fill Bank with CEDD so that there will be no backflow of surface water runoff from TKO Fill Bank to the SENTX boundary.
Remarks	-

Prepared by: Abbey Lau
Designation: Environmental Team Date: 28 June 2019

Project	South East New Territories (SENT) Landfill Extension
Date	20 June 2019
Time	DP4T: 15:15
Monitoring Location	DP4T
Parameter	Surface Water (pH)
Action / Limit Levels	DP4T: Action level: <8.39
	Limit level: <8.40
Measured Level	DP4T: 9.37 & 9.37
Possible reason	During the sampling event, the water level was observed to be above the weir plate for sampling. As there was flow of water from upstream to downstream, it was agreed on-site with IEC and GVL representatives that water monitoring and sampling should be carried out.
	From the on-site rainfall record of June 2019, heavy rainfall events were recorded on 10, 11 and 13 June 2019. Amber rainstorm warning signal was also issued by the Hong Kong Observatory on 13 June 2019 before the sampling event on 20 June 2019. Site staff of the Contractor reported that during the event, backflow of muddy water from downstream well passed DP4T along the channel. The site rainfall record showed that there was little rainfall on 14 June to 20 June 2019. It is therefore a high possibility that the high level of water observed at DP4T during the sampling event was due to the accumulated ponding water with the previous backflow water from the TKO Fill Bank. The sample taken at DP4T on the day might not represent the surface water runoff from SENTX and further upstream.
	In addition, after checking the site record of 20 June 2019 provided by the Contractor, the works in the vicinity of surface water channel leading to DP4T included erect formwork, rebar fixing and curing and CJ cleaning at sediment trap, which are not potential sources of pH increase.
	Due to presence of the influencing factor from the downstream and no potential source leading to pH increase from the Project-related activities, there is no adequate evidence showing that the pH exceedance at DP4T was deemed to Project-related activities.
Action Taken / Action to be Taken	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.

	In addition, the Contractor shall review the drainage system of the
	site and discuss the drainage issues of the TKO Fill Bank with
	CEDD so that there will be no backflow of surface water runoff
	from TKO Fill Bank to the SENTX boundary.
Remarks	-

Prepared by: Abbey Lau
Designation: Environmental Team
Date: 10 July 2019

Project	South East New Territories (SENT) Landfill Extension
Project Date	20 June 2019
Time	DP4T: 15:15
Monitoring Location	DP4T
Parameter	Surface Water (Suspended Solids (SS))
Action / Limit Levels	DP4T: Action level: >11.7 mg/L
	Limit level: >12.7 mg/L
Measured Level	DP4T: 19.6 mg/L
Possible reason	During the sampling event, the water level was observed to be above the weir plate for sampling. As there was flow of water from upstream to downstream, it was agreed on-site with IEC and GVL representatives that water monitoring and sampling should be carried out.
	From the on-site rainfall record of June 2019, heavy rainfall events were recorded on 10, 11 and 13 June 2019. Amber rainstorm warning signal was also issued by the Hong Kong Observatory on 13 June 2019 before the sampling event on 20 June 2019. Site staff of the Contractor reported that during the event, backflow of muddy water from downstream well passed DP4T along the channel. The site rainfall record showed that there was little rainfall on 14 June to 20 June 2019. It is therefore a high possibility that the high level of water observed at DP4T during the sampling event was due to the accumulated ponding water with the previous backflow water from the TKO Fill Bank. The sample taken at DP4T on the day might not represent the surface water runoff from SENTX and further upstream.
	In addition, after checking the site record of 20 June 2019 provided by the Contractor, the works in the vicinity of surface water channel leading to DP4T included erect formwork, rebar fixing and curing and CJ cleaning at sediment trap, which are not potential sources of SS increase.
	During the weekly site inspection in the morning of the same day of sampling event, site water was observed at the sediment trap area which was pumped to a temporary holding area for retention at Cell 2 before further discharged to the DP4T channel.
	Due to presence of the influencing factor from the downstream, there is no adequate evidence showing that the SS exceedance at DP4T was only deemed to Project-related activities.
Action Taken / Action to be Taken	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.
	In addition, the Contractor shall discuss the drainage issues of the TKO Fill Bank with CEDD so that there will be no backflow of surface water runoff from TKO Fill Bank to the SENTX boundary.
Remarks	-

Prepared by: Abbey Lau
Designation: Environmental Team
Date: 10 July 2019

Project	South East New Territories (SENT) Landfill Extension
Date	27 June 2019
Time	DP4T: 15:14
Monitoring Location	DP4T
Parameter	Surface Water (Dissolved Oxygen (DO))
Action / Limit Levels	DP4T: Action level: <5.80 mg/L
	Limit level: <5.42 mg/L
Measured Level	DP4T: 5.28 mg/L & 5.45 mg/L
Possible reason	During the sampling event, the water level was observed to be above the weir plate for sampling. As there was flow of water from upstream to downstream, it was agreed on-site with IEC and GVL representatives that water monitoring and sampling should be carried out.
	From the on-site rainfall record of June 2019, heavy rainfall event was recorded on 25 June 2019. Amber rainstorm warning signal was also issued by the Hong Kong Observatory on 25 June 2019 before the sampling event on 27 June 2019. During the event, backflow of muddy water from downstream might well passed DP4T along the channel. The site rainfall record showed that there was little rainfall on 27 June 2019. It is therefore a high possibility that the high level of water observed at DP4T was due to backflow water from the TKO Fill Bank. The sample taken at DP4T on the day might not represent the surface water runoff from SENTX and further upstream.
	In addition, no works which may lead to potential DO decrease was conducted in the vicinity of surface water channel leading to DP4T on and before the sampling day based on on-site observations and construction activities described by the Contractor. During the sampling event, no potential surface water discharge or overflow to the DP4T channel was observed. Due to presence of the influencing factor from the downstream and no potential source leading to DO decrease from the Project-related activities, there is no adequate evidence showing that the DO
Action Taken / Action to be Taken	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. In addition, the Contractor shall review the drainage system of the

	site and discuss the drainage issues of the TKO Fill Bank with
	CEDD so that there will be no backflow of surface water runoff
	from TKO Fill Bank to the SENTX boundary.
Remarks	-

Prepared by: Abbey Lau

Designation: Environmental Team

Date: 28 June 2019

Project	South East New Territories (SENT) Landfill Extension
Date	27 June 2019
Time	DP4T: 15:14
Monitoring Location	DP4T
Parameter	Surface Water (pH)
Action / Limit Levels	DP4T: Action level: >8.39
	Limit level: >8.40
Measured Level	DP4T: 8.75 & 8.75
Possible reason	During the sampling event, the water level was observed to be above the weir plate for sampling. As there was flow of water from upstream to downstream, it was agreed on-site with IEC and GVL representatives that water monitoring and sampling should be carried out.
	From the on-site rainfall record of June 2019, heavy rainfall event was recorded on 25 June 2019. Amber rainstorm warning signal was also issued by the Hong Kong Observatory on 25 June 2019 before the sampling event on 27 June 2019. During the event, backflow of muddy water from downstream might well passed DP4T along the channel. The site rainfall record showed that there was little rainfall on 27 June 2019. It is therefore a high possibility that the high level of water observed at DP4T was due to backflow water from the TKO Fill Bank. The sample taken at DP4T on the day might not represent the surface water runoff from SENTX and further upstream.
	In addition, no works which may lead to potential pH increase (e.g. concreting works) was conducted in the vicinity of surface water channel leading to DP4T on and before the sampling day based on on-site observations and construction activities described by the Contractor. During the sampling event, no potential surface water discharge or overflow to the DP4T channel was observed. Due to presence of the influencing factor from the downstream and no potential source leading to pH increase from the Project-related
Action Taken / Action to	activities, there is no adequate evidence showing that the pH exceedance at DP4T was deemed to Project-related activities.
Action Taken / Action to be Taken	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.
	In addition, the Contractor shall review the drainage system of the

	site and discuss the drainage issues of the TKO Fill Bank with
	CEDD so that there will be no backflow of surface water runoff
	from TKO Fill Bank to the SENTX boundary.
Remarks	-

Prepared by: Abbey Lau

Designation: Environmental Team

Date: 28 June 2019

Project	South East New Territories (SENT) Landfill Extension
Date	27 June 2019
Time	DP4T: 15:14
Monitoring Location	DP4T
Parameter	Surface Water (Suspended Solids (SS))
Action / Limit Levels	DP4T: Action level: >11.7 mg/L
	Limit level: >12.7 mg/L
Measured Level	DP4T: 29.2 mg/L
Possible reason	During the sampling event, the water level was observed to be above the weir plate for sampling. As there was flow of water from upstream to downstream, it was agreed on-site with IEC and GVL representatives that water monitoring and sampling should be carried out. From the on-site rainfall record of June 2019, heavy rainfall event was recorded on 25 June 2019. Amber rainstorm warning signal was also issued by the Hong Kong Observatory on 25 June 2019 before the sampling event on 27 June 2019. During the event, backflow of muddy water from downstream might well passed DP4T along the channel. The site rainfall record showed that there was little rainfall on 27 June 2019. It is therefore a high possibility that the high level of water observed at DP4T was due to backflow water from the TKO Fill Bank. The sample taken at DP4T on the day might not represent the surface water runoff from SENTX and further upstream. In addition, no works which may lead to potential SS increase 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. During the
	sampling event, no potential surface water discharge or overflow to the DP4T channel was observed. Due to presence of the influencing factor from the downstream and no potential source leading to SS increase from the Project-related activities, there is no adequate evidence showing that the SS
Action Taken / Action to	exceedance at DP4T was deemed to Project-related activities. Examination of environmental performance of the Project will be
be Taken	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.
	In addition, the Contractor shall review the drainage system of the

	site and discuss the drainage issues of the TKO Fill Bank with CEDD so that there will be no backflow of surface water runoff from TKO Fill Bank to the SENTX boundary.
Remarks	-

Prepared by: Abbey Lau

Designation: Environmental Team

By July 2019

Project	South East New Territories (SENT) Landfill Extension
Date	4 July 2019
Time	DP4T: 15:09
Monitoring Location	DP4T
Parameter	Surface Water (pH)
Action / Limit Levels	DP4T: Action level: >8.39
	Limit level: >8.40
Measured Level	DP4T: 8.53 & 8.56
Possible reason	During the sampling event, the water level was observed to be above the weir plate for sampling. As there was flow of water from upstream to downstream, it was agreed on-site with IEC and GVL representatives that water monitoring and sampling should be carried out. From the on-site rainfall record of July 2019, heavy rainfall event was recorded on 2 July 2019. Amber rainstorm warning signal was also issued by the Hong Kong Observatory on 3 July 2019 before the sampling event on 4 July 2019. During the heavy rainfall events, backflow of muddy water from downstream might well passed DP4T along the channel. The site rainfall record showed that there was little rainfall on 4 July 2019. It is therefore a high possibility that the high level of water observed at DP4T was due to backflow water from the downstream area. The sample taken at DP4T on the day might not represent the surface water runoff from SENTX and further upstream. In addition, no works which may lead to potential pH increase (e.g. concreting works) was conducted in the vicinity of surface water channel leading to DP4T on and before the sampling day based on on-site observations and construction activities described by the Contractor. During the sampling event, no potential surface water discharge or overflow to the DP4T channel was observed. Water from wheel-washing area discharged to the DP4T channel was treated by the Wetsep prior to discharge. Wetsep near DP4T was functioning properly with reference to the Wetsep operation record on 4 July 2019 and the on-site checking of the treated water at the outlet of the Wetsep during the sampling event. The Contractor has complied with the recommendations and conditions outlined in the updated EM&A Manual.
	Due to presence of the influencing factor from the downstream and no potential source leading to pH increase from the Project-related activities, with the implementation of relevant mitigation measures, there is no adequate evidence showing that the pH

	exceedance at DP4T was deemed to Project-related activities.
Action Taken / Action to be Taken	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.
	In addition, the Contractor shall review the drainage system of the site and discuss the drainage issues of the TKO Fill Bank with CEDD so that there will be no backflow of surface water runoff from TKO Fill Bank to the SENTX boundary.
Remarks	-

Prepared by: Tina Siu
Designation: Environmental Team

18 July 2019 Date:

Project	South East New Territories (SENT) Landfill Extension
Date	4 July 2019
Time	DP4T: 15:09
Monitoring Location	DP4T
Parameter	Surface Water (Suspended Solids (SS))
Action / Limit Levels	DP4T: Action level: >11.7 mg/L
	Limit level: >12.7 mg/L
Measured Level	DP4T: 68.5 mg/L
Possible reason	During the sampling event, the water level was observed to be above the weir plate for sampling. As there was flow of water from upstream to downstream, it was agreed on-site with IEC and GVL representatives that water monitoring and sampling should be carried out. From the on-site rainfall record of July 2019, heavy rainfall event was recorded on 2 July 2019. Amber rainstorm warning signal was also issued by the Hong Kong Observatory on 3 July 2019 before the sampling event on 4 July 2019. During the heavy rainfall events, backflow of muddy water from downstream might well passed DP4T along the channel. The site rainfall record showed that there was little rainfall on 4 July 2019. It is therefore a high possibility that the high level of water observed at DP4T was due to backflow water from the downstream area. The sample taken at DP4T on the day might not represent the surface water runoff from SENTX and further upstream. In addition, no works which may lead to potential SS increase 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. During the sampling event, no potential surface water discharge or overflow to the DP4T channel was observed. Water from wheel-washing area discharged to the DP4T channel was treated by the Wetsep prior to discharge. Wetsep near DP4T was functioning properly with reference to the Wetsep operation record on 4 July 2019 and the on-site checking of the treated water at the outlet of the Wetsep during the sampling event. The Contractor has complied with the recommendations and conditions outlined in the updated EM&A Manual.
	Due to presence of the influencing factor from the downstream and no potential source leading to SS increase from the Project-related activities, with the implementation of relevant mitigation measures, there is no adequate evidence showing that the SS

	exceedance at DP4T was deemed to Project-related activities.
Action Taken / Action to be Taken	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. In addition, the Contractor shall review the drainage system of the site and discuss the drainage issues of the TKO Fill Bank with CEDD so that there will be no backflow of surface water runoff from TKO Fill Bank to the SENTX boundary.
Remarks	

Prepared by:

Tina Siu
Environmental Team
18 July 2019 Designation:
Date:

Project	South East New Territories (SENT) Landfill Extension
Date	18 July 2019
Time	DP4T: 15:04
Monitoring Location	DP4T
Parameter	Surface Water (pH)
Action / Limit Levels	DP4T: Action level: >8.39
	Limit level: >8.40
Measured Level	DP4T: 9.40 & 9.41
Possible reason	No works which may lead to potential pH increase (e.g. concreting works) was conducted in the vicinity of surface water channel leading to DP4T on and before the sampling day based on on-site observations and construction activities described by the Contractor. During the sampling event, no potential surface water discharge or overflow to the DP4T channel was observed. Water from wheel-washing area discharged to the DP4T channel was treated by the Wetsep prior to discharge. Wetsep near DP4T was functioning properly with reference to the Wetsep operation record on 18 July 2019 and the on-site checking of the treated water at the outlet of the Wetsep during the sampling event. The Contractor has complied with the recommendations and conditions outlined in the updated EM&A Manual. As no potential source from the Project-related activities which may lead to pH increase was identified, and the Contractor has implemented the relevant mitigation measures recommended in the updated EM&A Manual, there is no adequate evidence showing that the pH exceedance at DP4T was deemed to Project-related activities.
Action Taken / Action to be Taken	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.
Remarks	-

Prepared by:	Abbey Lau
Designation:	Environmental Team
Date:	19 July 2019

Project	South East New Territories (SENT) Landfill Extension
Date	18 July 2019
Time	DP4T: 15:04
Monitoring Location	DP4T
Parameter	Surface Water (Suspended Solids (SS))
Action / Limit Levels	DP4T: Action level: >11.7 mg/L
	Limit level: >12.7 mg/L
Measured Level	DP4T: 14.2 mg/L
Possible reason	No works which may lead to potential SS increase 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. During the sampling event, no potential surface water discharge or overflow to the DP4T channel was observed. Water from wheel-washing area discharged to the DP4T channel was treated by the Wetsep prior to discharge. Wetsep near DP4T was functioning properly with reference to the Wetsep operation record on 18 July 2019 and the on-site checking of the treated water at the outlet of the Wetsep during the sampling event. The Contractor has complied with the recommendations and conditions outlined in the updated EM&A Manual. As no potential source from the Project-related activities which
	may lead to SS increase was identified, and the Contractor has implemented relevant mitigation measures recommended in the updated EM&A Manual, there is no adequate evidence showing that the SS exceedance at DP4T was deemed to Project-related activities.
Action Taken / Action to be Taken	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.
Remarks	-

Prepared by: Abbey Lau

Designation: Environmental Team

Date: 24 July 2019

Project	South East New Territories (SENT) Landfill Extension
Date	25 July 2019
Time	DP4T: 15:08
Monitoring Location	DP4T
Parameter	Surface Water (pH)
Action / Limit Levels	DP4T: Action level: >8.39
	Limit level: >8.40
Measured Level	DP4T: 9.11 & 9.11
Action Taken / Action to be Taken	No works which may lead to potential pH increase (e.g. concreting works) was conducted in the vicinity of surface water channel leading to DP4T on and before the sampling day based on on-site observations and construction activities described by the Contractor. During the sampling event, no potential surface water discharge or overflow to the DP4T channel was observed. Water from wheel-washing area discharged to the DP4T channel was treated by the Wetsep prior to discharge. Wetsep near DP4T was functioning properly with reference to the on-site checking of the treated water at the outlet of the Wetsep during the sampling event. The Contractor has complied with the recommendations and conditions outlined in the updated EM&A Manual. As no potential source from the Project-related activities which may lead to pH increase was identified, and the Contractor has implemented the relevant mitigation measures recommended in the updated EM&A Manual, there is no adequate evidence showing that the pH exceedance at DP4T was deemed to Project-related activities. Examination of environmental performance of the Project will be continued during the weekly inspections. The Contractor is
be Taken	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.
Remarks	-

Prepared by: Angela Yung
Designation: Environmental Team
Date: 31 July 2019

Project	South East New Territories (SENT) Landfill Extension
Date	25 July 2019
Time	DP4T: 15:08
Monitoring Location	DP4T
Parameter	Surface Water (Suspended Solids (SS))
Action / Limit Levels	DP4T: Action level: >11.7 mg/L
	Limit level: >12.7 mg/L
Measured Level	DP4T: 21.8 mg/L
Possible reason	During the weekly site inspection in the morning and the sampling event, it was observed that soil along the bank of DP4T channel next to the surface water sampling point was exposed. Topsoil was observed to have leaked into the water and muddy water was observed around the DP4 sampling point. Based on the above observation, the SS exceedance at DP4T was deemed to Project-related activities. It should be noted that the Water Pollution Control Ordinance (WPCO) water discharge licence has been obtained by the Contractor for the operation of the Wetsep near DP4T and the allowable discharge limit for SS to DP4T channel is 30 mg/L. The treated water with the allowable discharge limit from the Wetsep might also be a source leading to SS exceedance.
Action Taken / Action to be Taken	The Contractor shall maintain the DP4T channel by covering the exposed soil with concrete in order to avoid SS run-off to DP4T channel. 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.
Remarks	-

Prepared by: Angela Yung
Designation: Environmental Team
31 July 2019

Project	South East New Territories (SENT) Landfill Extension
Date	8 August 2019
Time	DP6: 14:37 & 14:46 (Duplicate)
Monitoring Location	DP6
Parameter	Surface Water (Suspended Solids (SS))
Action / Limit Levels	DP6: Action level: >11.7 mg/L
,	Limit level: >12.7 mg/L
Measured Level	DP6: 25.1 mg/L
	DP6 (Duplicate): 24.8 mg/L
Possible reason	No works which may lead to potential SS increase 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. During the sampling event, no potential surface water discharge or overflow to the DP6 channel was observed. Site water discharged to the DP6 channel was treated by the
	Wetsep prior to discharge. Wetsep near DP6 was functioning properly during the sampling event. The Contractor has complied with the recommendations and conditions outlined in the updated EM&A Manual.
	Environmental deficiency was observed during the weekly site inspection in the morning. Site water was observed overflowing the concrete partition at DP6 channel, without passing through the geotextile at the pipes along the DP6 channel, which might be a potential source of SS increase to the surface water at DP6. However, the deficiency was rectified before the sampling event and no overflow of site water was observed during the sampling event.
	As no potential source from the Project-related activities which may lead to SS increase was identified, and the Contractor has implemented relevant mitigation measures recommended in the updated EM&A Manual, there is no adequate evidence showing that the SS exceedance at DP6 was deemed to Project-related activities.
Action Taken / Action to be Taken	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.
Remarks	-

Prepared by: Abbey Lau

Designation: Environmental Team

Date: 19 August 2019

Project	South East New Territories (SENT) Landfill Extension
Date	22 August 2019
Time	DP4T: 14:54
Monitoring Location	DP4T
Parameter	Surface Water (pH)
Action / Limit Levels	DP4T: Action level: >8.39
	Limit level: >8.40
Measured Level	DP4T: 8.91 & 8.91
Action Taken / Action to be Taken	No works which may lead to potential pH increase (e.g. concreting works) was conducted in the vicinity of surface water channel leading to DP4T on and before the sampling day based on on-site observations and construction activities described by the Contractor. During the sampling event, no potential surface water discharge or overflow to the DP4T channel was observed. Water from wheel-washing area discharged to the DP4T channel was treated by the Wetsep prior to discharge. Wetsep near DP4T was functioning properly with reference to the on-site checking of the treated water at the outlet of the Wetsep during the sampling event. The Contractor has complied with the recommendations and conditions outlined in the updated EM&A Manual. As no potential source from the Project-related activities which may lead to pH increase was identified, and the Contractor has implemented the relevant mitigation measures recommended in the updated EM&A Manual, there is no adequate evidence showing that the pH exceedance at DP4T was deemed to Project-related activities. Examination of environmental performance of the Project will be continued during the weekly inspections. The Contractor is reminded to implement relevant and appropriate mitigation
	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.
Remarks	-

Prepared by: Abbey Lau

Designation: Environmental Team

Date: 27 August 2019

Project	South East New Territories (SENT) Landfill Extension
Date	22 August 2019
Time	DP4T: 14:54
Monitoring Location	DP4T
Parameter	Surface Water (Suspended Solids (SS))
Action / Limit Levels	DP4T: Action level: >11.7 mg/L
	Limit level: >12.7 mg/L
Measured Level	DP4T: 31.2 mg/L
Possible reason	No works which may lead to potential SS increase 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. During the sampling event, no potential surface water discharge or overflow to the DP4T channel was observed. Water from wheel-washing area discharged to the DP4T channel was treated by the Wetsep prior to discharge. Wetsep near DP4T was functioning properly with reference to the on-site checking of the treated water at the outlet of the Wetsep during the sampling event. The Contractor has complied with the recommendations and conditions outlined in the updated EM&A Manual. As no potential source from the Project-related activities which may lead to SS increase was identified, and the Contractor has implemented relevant mitigation measures recommended in the updated EM&A Manual, there is no adequate evidence showing that the SS exceedance at DP4T was deemed to Project-related activities.
Action Taken / Action to be Taken	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.
Remarks	-
Prepared by: Abbey Lau	

Prepared by: Abbey Lau
Designation: Environmental Team
Date: 30 August 2019

Project	South East New Territories (SENT) Landfill Extension
Date	5 September 2019
Time	DP4T: 14:50 and 15:00 (Duplicate)
Monitoring Location	DP4T
Parameter	Surface Water (pH)
Action / Limit Levels	DP4T: Action level: >8.39
	Limit level: >8.40
Measured Level	DP4T: 8.49 & 8.51
	DP4T (Duplicate): 8.49 & 8.52
Possible reason	No works which may lead to potential pH increase (e.g. concreting works) was conducted in the vicinity of surface water channel leading to DP4T on and before the sampling day based on on-site observations and construction activities described by the Contractor. During the sampling event, no potential surface water discharge or overflow to the DP4T channel was observed. Water from wheel-washing area discharged to the DP4T channel was treated by the Wetsep prior to discharge. Wetsep near DP4T was functioning properly with reference to the on-site checking of the treated water at the outlet of the Wetsep during the sampling event. The Contractor has complied with the recommendations and conditions outlined in the updated EM&A Manual. As no potential source from the Project-related activities which may lead to pH increase was identified, and the Contractor has implemented the relevant mitigation measures recommended in the updated EM&A Manual, there is no adequate evidence showing that the pH exceedance at DP4T was deemed to Project-related activities.
Action Taken / Action to be Taken	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.
Remarks	-

Prepared by: Abbey Lau

Designation: Environmental Team

Date: 9 September 2019

Project	South East New Territories (SENT) Landfill Extension
Date	5 September 2019
Time	DP4T: 14:50 and 15:00 (Duplicate)
Monitoring Location	DP4T
Parameter	Surface Water (Suspended Solids (SS))
Action / Limit Levels	DP4T: Action level: >11.7 mg/L
	Limit level: >12.7 mg/L
Measured Level	DP4T: 67.8 mg/L
	DP4T (Duplicate): 66.1 mg/L
Possible reason	During the sampling event, the water level was observed to be above the weir plate for sampling. As there was flow of water from upstream to downstream, it was agreed on-site with IEC and GVL representatives that water monitoring and sampling should be carried out.
	From the on-site rainfall record of September 2019, heavy rainfall event was recorded on 1, 2 and 4 September 2019. Amber rainstorm warning signal was also issued by the Hong Kong Observatory on 2 September 2019 before the sampling event on 5 September 2019. During the event, backflow of muddy water from downstream might well passed DP4T along the channel. The site rainfall record showed that there was little rainfall on 5 September 2019. It is therefore a high possibility that the high level of water observed at DP4T was due to backflow water from the TKO Fill Bank. The sample taken at DP4T on the day might not represent the surface water runoff from SENTX and further upstream.
	In addition, no works which may lead to potential SS increase 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. During the sampling event, no potential surface water discharge or overflow to the DP4T channel was observed.
	Water from wheel-washing area discharged to the DP4T channel was treated by the Wetsep prior to discharge. Wetsep near DP4T was functioning properly with reference to the on-site checking of the treated water at the outlet of the Wetsep during the sampling event. The Contractor has complied with the recommendations and conditions outlined in the updated EM&A Manual.
	Due to presence of the influencing factor from the downstream 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.
Action Taken / Action to be Taken	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.
Remarks	-

Prepared by: Abbey Lau

Designation: Environmental Team

Date: 16 September 2019

Project	South East New Territories (SENT) Landfill Extension
Date	12 September 2019
Time	DP4T: 14:59
Monitoring Location	DP4T
Parameter	Surface Water (pH)
Action / Limit Levels	DP4T: Action level: >8.39
	Limit level: >8.40
Measured Level	DP4T: 8.82 & 8.87
Possible reason Action Taken / Action to	No works which may lead to potential pH increase (e.g. concreting works) was conducted in the vicinity of surface water channel leading to DP4T on and before the sampling day based on on-site observations and construction activities described by the Contractor. During the sampling event, no potential surface water discharge or overflow to the DP4T channel was observed. Water from wheel-washing area discharged to the DP4T channel was treated by the Wetsep prior to discharge. Wetsep near DP4T was functioning properly with reference to the on-site checking of the treated water at the outlet of the Wetsep during the sampling event. The Contractor has complied with the recommendations and conditions outlined in the updated EM&A Manual. As no potential source from the Project-related activities which may lead to pH increase was identified, and the Contractor has implemented the relevant mitigation measures recommended in the updated EM&A Manual, there is no adequate evidence showing that the pH exceedance at DP4T was deemed to Project-related activities.
Action Taken / Action to be Taken	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.
Remarks	-

Prepared by: Abbey Lau

Designation: Environmental Team

Date: 16 September 2019