



| Ref. No. | Date | Time | Location | Measured TSP Level | Unit | Action Level | Limit Level | Follow-up action |
|----------|-----------|-------|-------------------------------|--------------------|-------------------------------|--------------|-------------|---|
| X_16A004 | 27-Aug-16 | 13:00 | CMA1b- Oil Street Site Office | 393.7 | 1 hr TSP (ug/m ³) | 320.1 | 500 | <p>Possible reason: Elevated TSP level in relate to local ambient condition around monitoring station</p> <p>Action taken / to be taken: Reviewed the trend of air quality measurement across monitoring stations. Analysis of contractor's working procedures.</p> <p>Remarks / Other Obs: No construction works was undertaken on the monitoring date at around Oil Street Site Office under Contractor of HY/2009/19, dust suppression measure including haul road maintained in dampened condition was implemented and no particular observation regarding air quality impact was observed during sampling. In view of the above, the action level exceedance was considered to be non-project related and contributed by local ambient condition.</p> |



Lam Geotechnics Limited

Contract No. HK/2015/01
Wanchai Development Phase II and Central Wanchai Bypass
Sampling, Field Measurement and Testing Work (Stage3)
Summary for Notification of Exceedance

| Ref no. | Date | Tidal | Location | Parameters (Unit) | Measured | Action Level | Limit Level | Follow-up action | |
|----------|-----------|-----------|----------|-------------------|----------|--------------|-------------|----------------------------|---|
| X_16C038 | 3-Aug-16 | Mid-ebb | C7 | DO(mg/l) | 5.05 | 3.02 | 2.44 | Possible reason: | Natural variation or changes of water quality in the vicinity of water abstraction location for the water quality monitoring station. |
| | | | | Turbidity | 11.81 | 11.35 | 12.71 | Action taken/ to be taken: | Immediate repeated in-situ measurement had conducted to confirm the exceedances. Checking with contractor works and review previous monitoring data. |
| | | | | SS | 12.50 | 18.42 | 27.54 | Remarks/ Other Obs: | Despite mud transshipment was conducted under Contract HY/2009/15 on the monitoring date, contractor mitigation measure including the use of tarpaulin sheet between two barges was generally in order. In view of the above, the exceedance was considered not related to Contract HY/2009/15 construction works. Despite reinstatement of seawall at TS3NE was conducted under Contract HY/2010/08, contractor mitigation measures including the use of silt curtain and impermeable barrier was in place and the installed silt screen was in place. In view of the above, and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related. |
| X_16C039 | 19-Aug-16 | Mid-flood | P5 | DO(mg/l) | 4.91 | 3.02 | 2.44 | Possible reason: | Natural variation or changes of water quality in the vicinity of water abstraction location for the water quality monitoring station. |
| | | | | Turbidity | 11.46 | 11.35 | 12.71 | Action taken/ to be taken: | Immediate repeated in-situ measurement had conducted to confirm the exceedances. Checking with contractor works and review previous monitoring data. |
| | | | | SS | 11.00 | 18.42 | 27.54 | Remarks/ Other Obs: | No marine activity was conducted under Contract HK/2012/08 on the monitoring date. Location of construction area was at downstream of monitoring station P5. In view of the above, and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not project related. |
| X_16C040 | 26-Aug-16 | Mid-ebb | C7 | DO(mg/l) | 5.63 | 3.02 | 2.44 | Possible reason: | Natural variation or changes of water quality in the vicinity of water abstraction location for the water quality monitoring station. |
| | | | | Turbidity | 13.71 | 11.35 | 12.71 | Action taken/ to be taken: | Immediate repeated in-situ measurement had conducted to confirm the exceedances. Checking with contractor works and review previous monitoring data. |
| | | | | SS | 8.50 | 18.42 | 27.54 | Remarks/ Other Obs: | No marine activity was conducted under Contract HY/2009/15 at Causeway Bay Typhoon Shelter on the monitoring date. In view of no marine construction activity, the exceedance was considered not related to Contract HY/2009/15 construction works. No marine activity was conducted under Contract HY/2010/08 on the monitoring date, and the installed silt screen was in place. In view of the above, and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related. |



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| X_16D0022 | 29-Jul-16 | Mid-flood | Ex-WPCWA SW | Middle | DO(mg/l) | 2.42 | 3.19 | 3.10 | <p>Possible reason: Possible in relation to the upstream organic discharge.</p> <p>Action taken/ to be taken: Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with Contractor works and review previous monitoring data.</p> <p>Remarks/ Other Obs: Despite underwater excavation at northern side of TPCWAW was conducted under Contract HY/2009/15 on the monitoring date, contractor mitigation measures including the use of silt curtain and impermeable barrier was in place. Upstream discharge from nearby culvert was noted. In view of the above and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to the Project works.</p> |
| X_16D0023 | 1-Aug-16 | Mid-ebb | Ex-WPCWA SW | Middle | DO(mg/l) | 2.90 | 3.19 | 3.10 | <p>Possible reason: Possible in relation to the upstream organic discharge.</p> <p>Action taken/ to be taken: Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with Contractor works and review previous monitoring data.</p> <p>Remarks/ Other Obs: No marine construction activity was conducted at TPCWAW under Contract HY/2009/15 on the monitoring date. Upstream discharge from nearby culvert was noted. In view of the above and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to the Project works.</p> |
| X_16D0024 | 5-Aug-16 | Mid-ebb | Ex-WPCWA SW | Middle | DO(mg/l) | 1.64 | 3.19 | 3.10 | <p>Possible reason: Possible in relation to the upstream organic discharge.</p> <p>Action taken/ to be taken: Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with Contractor works and review previous monitoring data.</p> <p>Remarks/ Other Obs: Despite removal of diaphragm wall at southern side of TPCWAW was conducted under Contract HY/2009/15 on the monitoring date, contractor mitigation measures including the use of silt curtain and impermeable barrier was in place. Upstream discharge from nearby culvert was noted. In view of the above and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to the Project works.</p> |
| X_16D0025 | 5-Aug-16 | Mid-ebb | Ex-WPCWA SE | Surface | DO(mg/l) | 2.61 | 3.55 | 3.00 | <p>Possible reason: Possible in relation to the upstream organic discharge.</p> <p>Action taken/ to be taken: Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with Contractor works and review previous monitoring data.</p> <p>Remarks/ Other Obs: Despite removal of diaphragm wall at southern side of TPCWAW was conducted under Contract HY/2009/15 on the monitoring date, contractor mitigation measures including the use of silt curtain and impermeable barrier was in place. Upstream discharge from nearby culvert was noted. In view of the above and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to the Project works.</p> |
| X_16D0026 | 8-Aug-16 | Mid-flood | Ex-WPCWA SW | Middle | DO(mg/l) | 3.01 | 3.19 | 3.10 | <p>Possible reason: Possible in relation to the upstream organic discharge.</p> <p>Action taken/ to be taken: Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with Contractor works and review previous monitoring data.</p> <p>Remarks/ Other Obs: Despite removal of diaphragm wall overbreak at northern side of TPCWAW was conducted under Contract HY/2009/15 on the monitoring date, contractor mitigation measure including the use of silt curtain was in place. Upstream discharge from nearby culvert was noted. In view of the above and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to the Project works.</p> |



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| X_16D0027 | 8-Aug-16 | Mid-flood | Ex-WPCWA SE | Surface | DO(mg/l) | 3.50 | 3.55 | 3.00 | <p>Possible reason: Possible in relation to the upstream organic discharge.</p> <p>Action taken/ to be taken: Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with Contractor works and review previous monitoring data.</p> <p>Remarks/ Other Obs: Despite removal of diaphragm wall overbreak at northern side of TPCWAW was conducted under Contract HY/2009/15 on the monitoring date, contractor mitigation measure including the use of silt curtain was in place. Upstream discharge from nearby culvert was noted. In view of the above and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to the Project works.</p> |
| X_16D0028 | 13-Aug-16 | Mid-ebb | Ex-WPCWA SW | Middle | DO(mg/l) | 2.77 | 3.55 | 3.00 | <p>Possible reason: Possible in relation to the upstream organic discharge.</p> <p>Action taken/ to be taken: Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with Contractor works and review previous monitoring data.</p> <p>Remarks/ Other Obs: No marine construction activity was conducted at TPCWAW under Contract HY/2009/15 on the monitoring date. Upstream discharge from nearby culvert was noted. In view of no marine construction activity was conducted, the exceedance was considered not related to the Project works.</p> |
| X_16D0029 | 15-Aug-16 | Mid-ebb | Ex-WPCWA SW | Middle | DO(mg/l) | 2.77 | 3.55 | 3.00 | <p>Possible reason: Possible in relation to the upstream organic discharge.</p> <p>Action taken/ to be taken: Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with Contractor works and review previous monitoring data.</p> <p>Remarks/ Other Obs: Despite transport of soil from land to derrick barge near Shaft B at TPCWAW was conducted under Contract HY/2009/15 on the monitoring date, contractor mitigation measures including the provision of tarpaulin sheet between land and barge and use of silt curtain was in place. Upstream discharge from nearby culvert was noted. In view of the above, the exceedance was considered not related to Project works.</p> |
| X_16D0030 | 15-Aug-16 | Mid-flood | Ex-WPCWA SW | Middle | DO(mg/l) | 1.69 | 3.55 | 3.00 | <p>Possible reason: Possible in relation to the upstream organic discharge.</p> <p>Action taken/ to be taken: Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with Contractor works and review previous monitoring data.</p> <p>Remarks/ Other Obs: Despite transport of soil from land to derrick barge near Shaft B at TPCWAW was conducted under Contract HY/2009/15 on the monitoring date, contractor mitigation measures including the provision of tarpaulin sheet between land and barge and use of silt curtain was in place. Upstream discharge from nearby culvert was noted. In view of the above and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to Project works.</p> |



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| X_16D0031 | 22-Aug-16 | Mid-flood | Ex-WPCWA SW | Middle | DO(mg/l) | 2.35 | 3.19 | 3.10 | <p>Possible reason:</p> <p>Possible in relation to the upstream organic discharge.</p> <p>Action taken/ to be taken:</p> <p>Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with Contractor works and review previous monitoring data.</p> <p>Remarks/ Other Obs:</p> <p>Despite transport of soil from land to derrick barge near Shaft B at TPCWAW was conducted under Contract HY/2009/15 on the monitoring date, contractor mitigation measures including the provision of tarpaulin sheet between land and barge and use of silt curtain was in place. Upstream discharge from nearby culvert was noted. In view of the above, the exceedance was considered not related to Project works.</p> | |
| X_16D0032 | 22-Aug-16 | Mid-ebb | Ex-WPCWA SW | Middle | DO(mg/l) | 1.27 | 3.19 | 3.10 | <p>Possible reason:</p> <p>Possible in relation to the upstream organic discharge.</p> <p>Action taken/ to be taken:</p> <p>Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with Contractor works and review previous monitoring data.</p> <p>Remarks/ Other Obs:</p> <p>Despite transport of soil from land to derrick barge near Shaft B at TPCWAW was conducted under Contract HY/2009/15 on the monitoring date, contractor mitigation measures including the provision of tarpaulin sheet between land and barge and use of silt curtain was in place. Upstream discharge from nearby culvert was noted. In view of the above, the exceedance was considered not related to Project works.</p> | |
| X_16D0033 | 24-Aug-16 | Mid-ebb | Ex-WPCWA SW | Middle | DO(mg/l) | 2.95 | 3.19 | 3.10 | <p>Possible reason:</p> <p>Possible in relation to the upstream organic discharge.</p> <p>Action taken/ to be taken:</p> <p>Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with Contractor works and review previous monitoring data.</p> <p>Remarks/ Other Obs:</p> <p>Despite removal of seawall blocks near Shaft B and removal of diaphragm wall at Northern side of TPCWAW were conducted under Contract HY/2009/15, contractor mitigation measures including the use of silt curtain and impermeable barrier were in place. Upstream discharge from nearby culvert was noted. In view of the above, and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to Project works.</p> | |
| X_16D0034 | 26-Aug-16 | Mid-ebb | Ex-WPCWA SW | Middle | DO(mg/l) | 3.09 | 3.19 | 3.10 | <p>Possible reason:</p> <p>Possible in relation to the upstream organic discharge and variation of water quality within Ex-PCWA area.</p> <p>Action taken/ to be taken:</p> <p>Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with Contractor works and review previous monitoring data.</p> <p>Remarks/ Other Obs:</p> <p>Despite filling levelling stone for seawall reinstatement at Western side of TPCWAW and underwater excavation works near Shaft B were conducted under Contract HY/2009/15, contractor mitigation measures including the use of silt curtain and impermeable barrier were implemented. Upstream discharge from nearby culvert was noted. In view of the above, and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to Project works. Nevertheless, the Contractor of HY/2009/15 was reminded to review the positioning of the impermeable barrier such that the water circulation within the temporarily diverted culvert channel would not be affected to avoid potential odour concern within the temporarily diverted culvert channel.</p> | |