Civil Engineering and Development Department

Agreement No. CE 59/2015 (EP) Environmental Team for Tseung Kwan O – Lam Tin Tunnel Design and Construction

Quarterly Environmental Monitoring and Audit Report – November 2020 – January 2021

(version 1.0)

Approved By
(Dr. HF Chan,
Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties.

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Attention: Mr Raymond Chan

BY FAX & POST (Fax no.: 2739 0076)

Dear Sirs

Agreement No.: NTE 06/2016 Independent Environmental Checker for Tseung Kwan O – Lam Tin Tunnel Quarterly Environmental Monitoring and Audit Report for November 2020 to January 2021

We refer to emails of 29 and 30 April 2021 from Cinotech Consultants Limited attaching the Quarterly Environmental Monitoring and Audit Report for November 2020 to January 2021.

We have no comment and hereby verify the captioned report.

Should you have any queries, please do not hesitate to contact the undersigned or our Mr Edric Lau on 2618 2831.

Yours faithfully ANEWR CONSULTING LIMITED

lues

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EXECUTIVE SUMMARY

Introduction

- This is the 17th Quarterly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the "Agreement No. CE 59/2015 (EP) Environmental Team for Tseung Kwan O – Lam Tin Tunnel – Design and Construction" (hereinafter called "the Project"). This summary report presents the EM&A works performed in the period from November 2020 to January 2021.
- 2. During the reporting quarter, the following works contracts were undertaken within the site:
 - Contract No. NE/2015/01 Tseung Kwan O Lam Tin Tunnel Main Tunnel and Associated Works
 - Contract No. NE/2015/02 Tseung Kwan O Lam Tin Tunnel Road P2 and Associated Works
 - Contract No. NE/2015/03 Tseung Kwan O Lam Tin Tunnel Northern Footbridge
 - Contract No. NE/2017/01 Tseung Kwan O Lam Tin Tunnel Tseung Kwan O Interchange and Associated Works
 - Contract No. NE/2017/02 Tseung Kwan O Lam Tin Tunnel Road P2/D4 and Associated Works
 - Contract No. NE/2017/07 Cross Bay Link, Tseung Kwan O Main Bridge and Associated Works

Environmental Monitoring Works

- 3. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- 4. Summary of the non-compliance in the reporting quarter for the Project is tabulated in Table I. Details of the environmental monitoring results is presented in Section 3.

Parameter	No. of Ex	ceedance	No. of Exceedance due to Construction Activities of this Project		Action Taken
	Action Level	Limit Level	Action Level	Limit Level	
November 2020					
Air Quality	0	0	0	0	N/A
Noise	12	0	12	0	Refer to Appendix K & L
Marine Water Quality	31	111	0	0	Refer to Appendix K
Groundwater Level Monitoring (Piezometer Monitoring)	0	N/A^1	0	N/A ¹	N/A
Ecological	N/A	N/A	N/A	N/A	N/A
Cultural Heritage	0	0	0	0	N/A
Landfill Gas	0	0	0	0	N/A
December 2020					
Air Quality	0	0	0	0	N/A

Table I Non-compliance (Exceedance) Record for the Project in the Reporting Quarter

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Parameter	No. of Ex	cceedance	No. of Exceedance due to Construction Activities of this Project		Action Taken
	Action Level	Limit Level	Action Level	Limit Level	
Noise	13	0	10	0	Refer to Appendix K & L
Marine Water Quality	41	123	0	0	Refer to Appendix K
Groundwater Level Monitoring (Piezometer Monitoring)	0	N/A ¹	0	N/A ¹	N/A
Ecological	N/A	N/A	N/A	N/A	N/A
Cultural Heritage	0	0	0	0	N/A
Landfill Gas	0	0	0	0	N/A
January 2021					
Air Quality	0	0	0	0	N/A
Noise	9	0	7	0	Refer to Appendix K & L
Marine Water Quality	21	85	0	0	Refer to Appendix K
Groundwater Level Monitoring (Piezometer Monitoring)	0	N/A^1	0	N/A ¹	N/A
Ecological	N/A	N/A	N/A	N/A	N/A
Cultural Heritage	0	0	0	0	N/A
Landfill Gas	0	0	0	0	N/A

Note:

(1) No Limit Level for Groundwater Level Monitoring (Piezometer Monitoring).

Key Information in the Reporting Quarter

5. Summary of key information in the reporting quarter is tabulated in Table II.

Table II Summary Table for Key Information in the Reporting Quarter

Event		Event Details	Action Takon Status		Domonia
Event	Number	Nature	Action Taken	Status	кешагк
Complaint received by Project Team / Complaint referred by EPD (Nov 2020)	14	Air / Noise	Investigation Completed	Draft CIR submitted / Closed	
Complaint received by Project Team / Complaint referred by EPD (Dec 2020)	13	Air / Noise / Operating Hours	Investigation Completed	Draft CIR submitted / Closed	Details refer to App L
Complaint received by Project Team / Complaint referred by EPD (Jan 2021)	13	Air / Noise	Investigation Completed / On-going	Draft CIR submitted / Closed / On- going	
Reporting Changes	0		N/A	N/A	
Notifications of any summons & prosecutions received (Nov 2020)	0		N/A	N/A	

Event		Event Details	Action Takon Status		Domonk	
Event	Number	Nature	Action Taken	Status	Kennark	
Notifications of any summons & prosecutions received (Dec 2020)	0		N/A	N/A		
Notifications of any summons & prosecutions received (Jan 2021)	0		N/A	N/A		

Remarks:

6. Environmental monitoring works for the Project are considered effective and is generating data to categorically identify the environmental impacts from the works and influencing factors in the vicinity of monitoring stations.

1. INTRODUCTION

Background

- 1.1 In 2002, Civil Engineering and Development Department (CEDD) commissioned an integrated planning and engineering study under Agreement No. CE 87/2001 (CE) "Further Development of Tseung Kwan O Feasibility Study" (the "TKO Study") to formulate a comprehensive plan for further development of TKO New Town. It recommended to further develop TKO to house a total population of 450,000 besides the district's continuous commercial and industrial developments.
- 1.2 At present, the Tseung Kwan O Tunnel is the main connection between Tseung Kwan O (TKO) and other areas in the territory. To cope with the anticipated transport need, the TKO Study recommended the provision of Tseung Kwan O Lam Tin Tunnel (TKO-LTT) (hereinafter referred to as "the Project") and Cross Bay Link (CBL) to meet the long-term traffic demand between TKO and the external areas. The site layout plan for the Project is shown in **Figure 1**.
- 1.3 The Environmental Impact Assessment (EIA) Report for the TKO-LTT project was approved under the Environmental Impact Assessment Ordinance (EIAO) in July 2013. The corresponding Environmental Permit (EP) was issued in November 2013 (EP no.: EP-458/2013). Variations to the EP was applied and the latest EP (EP no.: EP-458/2013/C) was issued by the Director of Environmental Protection (DEP) in January 2017.

Project Organizations

- 1.4 Different parties with different levels of involvement in the project organization include:
 - Project Proponent Civil Engineering and Development Department (CEDD)
 - The Engineer and the Engineer's Representative (ER) AECOM
 - Environmental Team (ET) Cinotech Consultants Limited (Cinotech)
 - Independent Environmental Checker (IEC) AnewR Consulting Limited (AnewR)
- 1.5 The key contacts of the Project are shown in **Table 1.1**.

Party	Role	Contact Person	Phone No.	Fax No.
CEDD	Project Proponent	Mr. LO Sai Pak, Sunny	2301 1384	2739 0076
AECOM	Engineer's Representative	Mr. KY Chan	3922 9000	2759 1698
Cinotoph	Environmental	Dr. HF Chan	2151 2088	2107 1299
Cinotech	Team	Mr. KS Lee	2151 2091	5107 1588
AnewR	Independent Environmental Checker	Mr. James Choi	2618 2836	3007 8648

Key Project Contacts

Construction Activities undertaken during the Report Quarter

1.6 The major site activities undertaken in the reporting quarter are shown in **Appendix M**.

Table 1.1

2. ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

Monitoring Parameters and Monitoring Locations

2.1 The EM&A Manual designates locations for environmental monitoring in terms of air quality, noise, groundwater quality, water quality, ecology, cultural heritage and landfill gas due to the Project. The Project area and monitoring locations are depicted in Figures 1 - 6. Appendix A gives details of monitoring requirements. Locations of the environmental sensitive receivers are shown in Figures 3.1, 3.2, 4.1, 5.1, 6.2 and 9.2.

Monitoring Methodology and Calibration Details

2.2 Monitoring works/equipment were conducted/calibrated regularly in accordance with the EM&A Manual. Copies of calibration certificates are attached in the appendices of the Monthly EM&A Reports.

Environmental Quality Performance Limits (Action and Limit Levels)

- 2.3 The environmental quality performance limits, i.e. Action and Limit Levels were derived from the baseline monitoring results. Should the measured environmental quality parameters exceed the Action/Limit Levels, the respective action plans would be implemented. The Action/Limit Levels for each environmental parameter are given in **Appendix B**.
- 2.4 Should the monitoring results of the environmental monitoring parameters at any designated monitoring stations indicate that the Action / Limit Levels are exceeded, the actions in accordance with the Event and Action Plans in **Appendix N** was carried out.

Implementation Status of Environmental Mitigation Measures

2.5 Relevant mitigation measures as recommended in the project EIA report have been stipulated in the EM&A Manual for implementation by the Contractor. The implementation status of environmental mitigation measures (EMIS) is given in **Appendix I**.

Site Audit Summary

2.6 During site inspections in the reporting period, no non-compliances was recorded. The observations and recommendations made during the reporting period are summarized in **Appendix H**.

Status of Waste Management

2.7 The amount of wastes generated by the activities of the Work Contracts within TKO-LTT during the reporting period is shown in **Appendix J**.

3. MONITORING RESULTS

Weather Conditions

3.1 The weather during monitoring sessions was summarized in **Table 3.1**.

Table 3.1 Summary of Weather Conditions in the Reporting Period

Reporting Month	General Weather Conditions
November 2020	Sunny, Cloudy and Rainy
December 2020	Sunny, Cloudy and Rainy
January 2021	Sunny, Cloudy and Rainy

3.2 The detail of weather conditions for each individual monitoring session was presented in the monthly EM&A report.

Air Quality

- 3.3 All 1-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded.
- 3.4 All 24-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action / Limit Level exceedance was recorded.
- 3.5 The graphical presentations of the air quality monitoring results are shown in **Appendix C**.

Construction Noise

November 2020

3.6 All noise monitoring was conducted as scheduled in the reporting month. Twelve (12) Action Level exceedances were recorded due to the documented complaints received in this reporting month. No Limit Level exceedances for night-time construction noise monitoring were recorded. No Limit Level exceedance for day time was recorded in the reporting month. The summary of documented complaints and the complaint investigation in reporting month are tabulated in **Table 3.2**.

Complaint No.	Complaint Details	Investigation Findings	Follow-up Action / Mitigation Measure
Lam Tin Side			
478, 479, 480, 486, 487	Noise Nuisance near Lam Tin Interchange (Late September to Early November)	Complaint is considered as project- related and no non-compliance in CNMP had been recorded. Details shall be referred to CIR-C38	NIL
489	Dust and Noise Nuisance in Portion IVC	The complaint was found project- related. The contractor had adopted various noise mitigation measures such as rock splitting method and erection of semi-enclosure to further reduce the noise impact to its surrounding. The details shall be referred to CIR-C39.	The Contractor was constructing semi-enclosure to further reducing noise nuisance to the surrounding.
490, 491	Noise nuisance near Lam Tin Interchange (Restricted Hours)	The complaint is considered as project- related. The origin of noise nuisance was believed to be construction works at Tunnel S1 and S2. No non-	The Contractor is reminded to strictly follow the conditions listed within the approved CNMP.

Table 3.2Summary of Documented Complaints in November 2020

Complaint No.	Complaint Details	Investigation Findings	Follow-up Action / Mitigation Measure
		compliance was found and the details shall be referred to CIR-N121.	
Tseung Kwan	O Side	-	
481, 484	Noise Nuisance from Excavation Works	The complaint is considered project- related as no other possible noise origin is know to emit such kind of noise at the surrounding. The complaint is considered project-related as no other possible noise origin is know to emit such kind of reduce noise level. The details shall be referred to CIR-N118	The Contractor had been reminded to applied lubricants and tighten the screws to alleviate the noise nuisance.
483	Low-frequency noise at night (Oct & Nov 2020)	The Contractor had followed the approved CNP. The complaint is considered The low-frequency noise was found coming from the water pumps that works 24/7 and other source may also project-related and shall be referred to CIR-N119	The Contractor is reminded to strictly follow the conditions listed within the approved CNMP.
485	Percussive noise nearby Park Central	The complaint is considered non- project-related as no PME that know to emit percussive noise was operating during the time of complaint. The details shall be referred to CIR-N120.	NIL
488	Dust emission from construction works	The complaint was found project- related. The details shall be referred to CIR-A19.	The Contractor is recommended to spray water more requently to suppress the dust nuisance.
492	Construction Noise Nuisance at Morning	Investigation result reveals that pre- boring and breaking works had been conducted at the time of complaint. The details shall be referred CIR-N122.	The Contractor is reminded to check the conditions of noise mitigation measures before starting the construction works.

December 2020

3.7 All noise monitoring was conducted as scheduled in the reporting month. Ten (10) Action Level exceedances were recorded due to the documented complaints received in this reporting month. No Limit Level exceedances for both day-time and night-time construction noise monitoring were recorded in the reporting month. The summary of documented complaints and the complaint investigations in reporting month are tabulated in **Table 3.3**. One (1) non-compliance was recorded within this month.

Complaint No.	Complaint Type	Investigation Findings	Follow-up Action / Mitigation Measure
Lam Tin Side			
494, 496, 497	Noise Nuisance near Lam Tin Interchange (December 2020)	The complaint is considered as project-related and no non-compliance in CNMP had been recorded. The details shall be referred to CIR-C40	The contractor is reminded to ensure the effectiveness of noise mitigation measures by various measures including repairing damaged noise barrier.
Tseung Kwan O Side			

Complaint No.	Complaint Type	Investigation Findings	Follow-up Action / Mitigation Measure
493	Percussive noise nuisance at early morning	No PME(s) working under TKOLTT project at the time of complaint is known to emit percussive noise. The complaint is considered non-project- related and details shall be referred to CIR-N123	NIL
495	Night time mechanical noise nuisance	The complaint is considered as project-related as the noise nuisance originated from water pumps that working 24/7. No noncompliance was found. The details shall be referred to CIR-N124.	NIL
498	Low frequency noise & occasional piling noise nuisance during night time	The complaint is considered as project-related as the noise nuisance was coming from water pumps that working 24/7. No non-compliance was found. Details shall be referring to CIR-N125	NIL
499	Horning noise nuisance on Sunday	The complaint is considered as non- project-related as no barge was working under the TKOLTT project at the time of complaint. The details shall be referred to CIR-O6.	NIL
500, 501, 501B, 502, 503	Noise nuisance at nighttime on a weekday	The Contractor operated PME(s) at evening-/ night- time without an approved valid CNP. The complaint is considered as project related. The details shall be referred to CIR-N126.	The Contractor should submit a noise mitigation proposal to ET&IEC for ensuring similar events will not happen again.
501A		No direct evidence show that the Contractor operated barges at the time of complaint. Therefore the complaint was considered as non-project related. The details shall be referred to CIR- N126.	NIL

January 2021

3.8 All noise monitoring was conducted as scheduled in the reporting month. Seven (7) Action Level exceedances were recorded due to the documented complaints received in this reporting month. No exceedances for daytime and night-time construction noise monitoring were. The summary of documented complaints and the complaint investigations in reporting month are tabulated in **Table 3.4**.

Complaint No.	Complaint Type	Investigation Findings	Follow-up Action / Mitigation Measure
Lam Tin Side			
504, 515	Suspected noise nuisance from the work site	The complaint was considered non- project-related as there was no PME working on site.	NIL
Tseung Kwan O Side			

Complaint No.	Complaint Type	Investigation Findings	Follow-up Action / Mitigation Measure
505, 509, 510	Noise nuisance at nighttime on a weekday	No clear judgement was made. Other than the construction site, other source for low-frequency noise was also identified. Details shall be referred to CIR-N128.	NIL
506	Noise nuisance at nighttime on a weekday	The Contractor operated PME(s) at evening- /night- time without an approved valid CNP.	The Contractor is required to hand in Contingency and Action Plan
507, 508, 512 & 513	Air quality impact due to open stockpile	The Complaint was found project- related. The dust origin was from the stockpile at Zone A of C3.	The Contractor had sprayed water regularly to suppress the dust emission and improvement had been observed over Jan 2021.
511 & 514	Continuous Noise Nuisance during Nighttime (Jan 2021)	The complaint is considered as project-related as barge was operating in during time of complaint. The details shall be referred to CIR-N128	The Contractor is reminded to strictly follow the approved CNP/CNMP.
516		The complaint is considered as non- project-related as no PME was operating on the date of incident. The details shall be referred to CIR-N128.	NIL

3.9 The graphical presentations of the noise monitoring results are shown in **Appendix D**.

Water Quality

Exceedance Summary

November 2020

3.10 As for marine water quality monitoring, 31 and 111 action level and limit level exceedances in Monitoring Stations (M) were recorded.

December 2020

3.11 As for marine water quality monitoring, 41 and 123 action level and limit level exceedances in Monitoring Stations (M) were recorded.

January 2021

3.12 As for marine water quality monitoring, 21 and 85 action level and limit level exceedances in Monitoring Stations (M) were recorded.

Suspension of Groundwater Quality Monitoring

- 3.13 The groundwater monitoring was suspended since October 2019.
- 3.14 The monitoring results had been deemed non-representative of the impact from the project justified by two major factors: (1) influence on the monitoring results from non-project related factors, such as anthropogenic activities and natural phenomenon; and (2) large separation between the monitoring stations and works area. In addition, as no alternative locations for the groundwater quality monitoring were available, the

groundwater quality monitoring has been suspended since January 2020 upon the agreement by EPD.

Observation and Exceedance Investigations

- 3.15 During this reporting quarter, no sand plume was observed during the water quality monitoring and site audits, therefore there is no direct evidence that the recent exceedances were due to reclamation activities of the Project. The Contractor is reminded to deploy silt curtain properly when the barge enters/exits the embayment area. If possible, the Contractor shall also move the barge during high tide to prevent stirring up the sediments on sea bed.
- 3.16 Exceedances of turbidity and suspended solid were recorded on from various monitoring stations non-specifically among all stations including the control stations. Investigations over November 2020 January 2021 showed that the range of SS levels recorded in reporting period remained consistent with the records in recent months. Since we officially entered the wet season, all Contractors are reminded to clear the drainage, repair any broken pipes/drainage and ensure there is embankment surrounding the works area to prevent accidental muddy water spillage or surface runoff due to heavy downpours. Details of the exceedance investigation report can be found in **Appendix K**.
- 3.17 The graphical presentations of the marine water quality monitoring results are shown in **Appendix F**. Embayment measurement at W1 was completed in December 2019.

Daily Piezometer Monitoring

3.18 Construction phase daily piezometer monitoring was carried out in the whole period whenever tunnel construction activities were carried out within +/- 50m of the piezometer gate in plan. The monitoring had switched to monthly basis in 19 November 2018 as the construction activities were not within +/- 50m of the piezometer gate in plan. Since no construction had been conducted within +/- 50m of the piezometer gate in the reporting quarter, no piezometer monitoring was conducted in the reporting quarter.

Ecological Monitoring

3.19 Post-translocation coral monitoring survey shall be conducted once every 3 months for a period of 12 months after completion of coral translocation. The post-translocation coral monitoring survey were completed in February 2017.

Monitoring on Cultural Heritage

3.20 Monitoring of vibration impacts at Cha Kwo Ling Tin Hau Temple commenced on 8 April 2017. No Alert Alarm and Action (AAA) Level exceedance was recorded in the reporting quarter.

Landscape and Visual Monitoring and Audit

3.21 The implementation of landscape and visual mitigation measures was checked during the environmental site inspections. Recommended follow-up actions have been discharged by the Contractor. Details of the audit findings and implementation status are presented in **Appendix H**.

Landfill Gas Monitoring

3.22 Monitoring of landfill gases was commenced in March 2016 and were carried out by the Contractors at excavation location, Portion III in the reporting quarter. No Limit Level exceedance was recorded. The graphical presentations of the landfill gas monitoring results are shown in **Appendix G**.

Waste Management

3.23 Wastes generated from this Project include inert construction and demolition (C&D) materials, non-inert C&D materials and marine sediments. Details of waste management data is presented in **Appendix I**.

Influencing Factors on the Monitoring Results

3.24 During the reporting period, the major dust and noise source identified at the designated monitoring stations are as follows:

Station	Major Dust Source
AM1 – Tin Hau Temple	Road Traffic at Cha Kwo Ling Road
AM2 – Sai Tso Wan Recreation Ground	N/A
AM3 – Yau Lai Estate Bik Lai House	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza
AM4 - Sitting-out Area at Cha Kwo Ling Village	Road Traffic at Cha Kwo Ling Road
AM4(A) - Cha Kwo Ling Public Cargo Working Area Administrative Office	Road Traffic at Cha Kwo Ling Road
AM5(A) - Tseung Kwan O DSD Desilting Compound	Vehicle Movement within the Desilting Compound
AM6(A) - Park Central, L1/F Open Space Area	Road Traffic at Po Yap Road

Table 3.5Major Dust Sources during the Monitoring in the Reporting Period

Table 3.6 Major Noise Sources during the Monitoring in the Reporting Period

Monitoring Stations	Locations	Major Noise Source
CM1	Nga Lai House, Yau Lai Estate Phase 1, Yau Tong	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza
CM2	Bik Lai House, Yau Lai Estate Phase 1, Yau Tong	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza
CM3	Block S, Yau Lai Estate Phase 5, Yau Tong	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza
CM4	Tin Hau Temple, Cha Kwo Ling	Road Traffic at Cha Kwo Ling Road
CM5	CCC Kei Faat Primary School, Yau Tong	Road Traffic at Yau Tong Road
CM6(A)	Site Boundary of Contract No. NE/2015/02 near Tower 1, Ocean Shores	Road Traffic at O King Road near Ocean Shores
CM7(A)	Site Boundary of Contract No. NE/2015/02 near Tower 7, Ocean Shores	Road Traffic at Tong Yin Street
CM8(A)	Park Central, L1/F Open Space Area	Road Traffic at Po Yap Road
CM9(A)	Rooftop of Capri Tower 10	Rooftop (12/F)

4. NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)

Summary of Exceedances

4.1 Environmental monitoring works were performed in the reporting period and all monitoring results were checked and reviewed. A summary of exceedances is attached in **Appendix K**.

Air Quality

4.2 No Action/Limit Level exceedance was recorded in the reporting quarter.

Construction Noise

4.3 Twenty-nine (29) Action Level exceedances were recorded due to the documented complaints received in the reporting quarter. No Limit Level exceedances was recorded in monitoring stations for night time construction noise in the reporting quarter. No Limit Level exceedance was recorded for day time construction noise in the reporting quarter.

Water Quality

- 4.4 The groundwater monitoring was suspended since October 2019.
- 4.5 Ninety-three (93) Action Level exceedances and Three Hundred and Nineteen (319) Limit Level exceedances in Monitoring Stations (M) were recorded for marine water quality monitoring in the reporting quarter.
- 4.6 *Ecological Monitoring* No action/limit level of mortality was exceeded in the monitoring survey conducted in the reporting quarter.

Monitoring on Cultural Heritage

4.7 No Alert Alarm and Action (AAA) Level exceedance was recorded in the reporting quarter.

Landscape and Visual

4.8 No non-compliance of the landscape and visual impact was recorded in the reporting quarter.

Landfill Gas

4.9 No Limit Level exceedance was recorded in the reporting quarter.

Review of the Reasons for and the Implications of Non-compliance

4.10 During site audits in the reporting quarter, no non-compliance was recorded. Recommendations made in each individual site audit session were attached in the **Appendix H**.

Summary of Environmental Complaints and Prosecutions

- 4.11 Thirty-nine (39) cases of environmental complaints on this Project were received in the reporting quarter. The details were attached in the **Appendix L**.
- 4.12 No environmental prosecution was received in the reporting quarter.

5. COMMENTS, CONCLUSIONS AND RECOMMENDATIONS

Effectiveness of Mitigation Measures

- 5.1 The mitigation measures recommended in the EIA report are considered effective in minimizing environmental impacts.
- 5.2 The Contractor has implemented the recommended mitigation measures except those mitigation measures not applicable at this stage.
- 5.3 Environmental monitoring works were performed in the reporting quarter and all monitoring results were checked and reviewed.
- 5.4 The summary record of non-compliance (exceedances) of Action/Limit Level for environmental monitoring in the reporting quarter has been presented in **Table I** above and in **Appendix K**.
- 5.5 Thirty-nine (39) cases of environmental complaints were received in the reporting quarter. The details were attached in the **Appendix L**.
- 5.6 No warning, notification of summon and environmental prosecution was received in the reporting quarter. The details were attached in the **Appendix L**.

Recommendations

5.7 Joint weekly site audits by the representatives of the Engineer, Contractor and the ET were conducted in the reporting quarter. The following recommendations was made to the Contractor for the coming reporting month:

Air Quality Impact

- To implement dust suppression measures such as water spray on all haul roads, stockpiles, dry surfaces, excavation and rock breaking works.
- To cover stockpile of dusty material by impervious material
- To properly display NRMM Label to Powered Mechanical Equipment on site
- To avoid smoke emission from Powered Mechanical Equipment on site
- To remove the dusty cement bags after use.
- To provide sand bag bunds to gullies at site access near the site office
- To provide top and three-side enclosure for grouting equipment on site
- To repair the gaps and the noise tarpaulin sheets to ensure the effectiveness of dust curtain.

Construction Noise

- Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum.
- To provide mitigation measures to PME as proposed in the approved NMP.
- To repair noise barrier of breaker on site.
- To provide proper acoustic material for enclosing the breaker head

Water Quality Impact

- To prevent any surface runoff discharge into any stream course or the waters in vicinity.
- To review and implement temporary drainage system.
- To ensure properly maintenance for de-silting facilities.
- To clear the silt and sediment in the sedimentation tanks or those accumulated in drainage.
- To provide bund to stockpile storage area on site to avoid leakage of surface runoff.
- To divert all the water generated from construction site to de-silting facilities with enough handling capacity before discharge.
- To provide and repair the silt curtain to fully enclose the site.
- To remove the dusty material to avoid mud/sand fall into the sea.
- To prevent silty water flow out of site during wheel washing
- To provide bunds or containment pit to prevent muddy water flow out of site.
- To remove the construction waste in U-channel.
- To set up proper drainage system within site.
- To cover or seal the gaps of covers of catchpit to prevent silt water or oil stain flow out of site.
- To remove the sand material deposited near the seafront.
- To provide sand bag bunds to gullies
- To cover exposed ground with tarpaulin and sandbag to avoid surface run-off
- Provide sufficient storage/diversion for storm water collected within the site during rainstorm, in order to avoid overflowing the water treatment tanks

Waste/Chemical Management

- To check for any accumulation of waste materials or rubbish on site.
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the site.
- To avoid improper handling or storage of oil drum on site.
- To provide label to identify waste storage area within site.
- To remove oil stain mixed with muddy water within site.
- To provide drip tray to chemical containers
- To remove the construction material from drip tray and provide a plug for drip tray on site.

Landscape and Visual

• To remove the construction material near the tree and set up proper tree protection area

Permit/Licence

- To provide and display the Environmental Permit for the marine barge.
- To update the Environmental Permit displayed on crane barge.

Cultural Heritage

• To properly set up fenced-off buffer zone around Tin Hau Temple.

FIGURES































APPENDIX A MONITORING REQUIREMENTS
Appendix A - Environmental Impact Monitoring Requirements

Fable I – Air Quality	y Monitoring
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Type of Monitoring	Parameter	Frequency	Location	Measurement Conditions
Air Quality	1 hour TSP	Three times / 6 days	 AM1 – Tin Hau Temple AM2 – Sai Tso Wan Recreation Ground AM3 – Yau Lai Estate Bik Lai House AM4⁽¹⁾ – Road Traffic at Cha Kwo Ling Road AM4(A)^{(2)(*)} – Cha Kwo Ling Public Cargo Working Area 	 AM1 – Ground Level AM2 – Ground Level AM3 – Rooftop (41/F) AM4⁽¹⁾ – Ground Level AM4(A)^{(2)(*)} – Rooftop (3/F)
	24 hour TSP	Once / 6 days	 Administrative Office AM5(A)^(*) – Tseung Kwan O DSD Desilting Compound AM6(A)^(*) – Park Central, L1/F Open Space Area 	 AM5(A) ^(*) – Ground Level AM6(A) ^(*) – 1/F

Remarks: (1) For 1-hour TSP monitoring; (2) For 24-hour TSP monitoring

(*) Air quality monitoring at designated station AM4(24-hr TSP), AM5 and AM6 was rejected by the premise owners. Therefore, baseline and impact air quality monitoring works were carried

out at alternative air quality monitoring stations AM4(A) (24-hr TSP only), AM5(A) and AM6(A) respectively.

Table II – Noise Monitoring

Type of Monitoring	Parameter	Frequency	Location	Measurement Conditions
			• CM1 – Nga Lai House, Yau Lai Estate Phase 1, Yau Tong	
			• CM2 – Bik Lai House, Yau Lai Estate Phase 1, Yau Tong	• CM1 – Rooftop (41/F)
			• CM3 – Block S, Yau Lai Estate Phase 5, Yau Tong	• CM2 – Rooftop (41/F)
	Leq, L90 & L10 at 30		• CM4 – Tin Hau Temple, Cha Kwo Ling	• CM3 – Rooftop (40/F)
Construction	minute intervals	Once per	CM5 – CCC Kei Faat Primary School, Yau Tong	• CM4 – Ground Level
Noise	during 0700 to 1900	week	• CM6(A)* – Site Boundary of Contract No. NE/2015/02 near	• CM5 – Rooftop (6/F)
	on normal weekdays		Tower 1, Ocean Shores	• CM6(A)* – Ground Level
			• CM7(A)* – Site Boundary of Contract No. NE/2015/02 near	• CM7(A)* – Ground Level
			Tower 7, Ocean Shores	CM8(A)* – 1/F
			• CM8(A)* –Park Central, L1/F Open Space Area	

Remarks: *Noise monitoring at designated station CM6, CM7 & CM8 was rejected by the premise owners. Therefore, baseline and impact noise monitoring works were carried out at alternative noise monitoring stations CM6(A), CM7(A) and CM8(A) respectively.

Monitoring Stations	Parameters, unit	Depth	Frequency
Groundwater Quality	y	·	
Stream 1- Stream 3	 DO, mg/L DO Saturation, % pH Water Temperature (°C) Turbidity, NTU SS, mg/L BOD₅, mg O₂/L TOC, mg-TOC/L Total Nitrogen, mg/L Ammonia-N, mg NH₃-N/L Total Phosphate, mg-P/L 	Mid-depth	Biweekly (When the tunnel construction works are found within 50m of the location, weekly.)
Marine Water Qualit	ty		1
M1 M2 M3 M4 M5 M6 C1 C2 G1 C2 G1 G2 G3 G4	<u>In-situ:</u> Dissolved oxygen (DO) concentration, DO saturation, turbidity, pH, temperature and salinity <u>Laboratory Testing:</u> Suspended Solids (SS)	 <u>M1-M5, C1-C2, G1-G4</u> 3 water depths: 1m below water surface, mid-depth and 1m above sea bed. If the water depth is less than 3m, mid-depth sampling only. If the water depth is less than 6m, omit mid-depth sampling. <u>M6</u> at the vertical level where the water abstraction point of the intake is located(i.e. approximately mid-depth level) 	3 days per week / 2 per monitoring day (1 for mid-ebb and 1 for mid- flood)

Table III – Water Quality Monitoring

Table IV –Landfill Gas Monitoring

Type of Monitoring	Parameter	Frequency	Location
Landfill Gas	Methane, Carbon dioxide and Oxygen	at least daily before starting the work of the day	 Excavation Locations Manholes and Chambers Relocation of monitoring wells Any other Confined Spaces

Table V – **Ecological Monitoring**

Type of Monitoring	Parameter	Frequency
Marine Ecology	The presence, survival, health condition and growth of the translocated coral colonies	Once every 3 months after completion for a period of 12 months

APPENDIX B ACTION AND LIMIT LEVELS

APPENDIX B – Action and Limit Levels

Air Quality

1-hr TSP

Monitoring Stations	Location	Action Level, µg/m ³	Limit Level, µg/m ³
AM1	Tin Hau Temple	275	
AM2	Sai Tso Wan Recreation Ground	273	
AM3	Yau Lai Estate Bik Lai House	271	500
AM4	Sitting-out Area at Cha Kwo Ling Village	278	500
AM5(A)	Tseung Kwan O DSD Desilting Compound	273	
AM6(A)	Park Central, L1/F Open Space Area	285	

24-hr TSP

Monitoring Stations	Location	Action Level, μg/m ³	Limit Level, µg/m ³
AM1	Tin Hau Temple	173	
AM2	Sai Tso Wan Recreation Ground	192	
AM3	Yau Lai Estate Bik Lai House	167	
AM4(A)	Cha Kwo Ling Public Cargo Working Area Administrative Office	210	260
AM5(A)	Tseung Kwan O DSD Desilting Compound	175	
AM6(A)	Park Central, L1/F Open Space Area	165	

<u>Noise</u>

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented	75 dB(A) ⁽¹⁾
1900-2300 on all days and 0700-2300 on general holidays (including Sundays)	complaint is received from any one of the	60/65/70 dB(A) ⁽²⁾⁽³⁾
2300-0700 on all days	monitoring stations	45/50/55 dB(A) ⁽²⁾⁽³⁾

¹70 dB(A) for schools and 65 dB(A) for schools during examination period.

² Acceptable Noise Levels for Area Sensitivity Rating of A/B/C

³ If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

Water Quality

Groundwater

Parameters	Action	Limit
DO in mg L ⁻¹	7.6	7.6
рН	6.0 - 8.9	6.0 – 9.0
BOD ₅ in mg L ⁻¹	2.0	2.0
TOC in my Lal	Stream 1 and Stream 2: 9	Stream 1 and Stream 2: 9
TOC in mg L.	Stream 3: 6	Stream 3: 6
Total Nitrogen in mg L ⁻¹	2.0	2.1
Ammonia-N in mg L ⁻¹	0.15	0.20
Total Phosphate in mg L ⁻¹	0.05	0.05
SS in mg L ⁻¹	7.6	12.1
Turbidity in NTU	2.1	2.3

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity, SS, 5-day biochemical oxygen demand (BOD₅), Total organic carbon (TOC), Total Nitrogen, Ammonia-N and Total Phosphate, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3. All the figures given in the table are used for reference only and the EPD may amend the figures whenever it is considered as necessary.

Groundwater Level Monitoring

Drill Hole No.	38568-LDH1	TKO-LBH907
Action Level (mPD)	+74.65	+17.59

Marine Water Quality

Parameter (unit)	<u>Depth</u>	Action Level	Limit Level
	Stations G1-G4	4, M1-M5	·
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
(See Note 1 and 4)	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	Station M6		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
	Stations G1-G4	4, M1-M5	
Turbidity in NTU (See Note 2 and 4)	Bottom	<u>19.3 NTU</u> or 120% of upstream control station's Turbidity at the same tide of the same day	<u>22.2 NTU</u> or 130% of upstream control station's Turbidity at the same tide of the same day
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
	Stations G1-G4	<u>1</u>	
	Surface	<u>6.0 mg/L</u> or 120% of upstream control station's SS at the same tide of the same day	<u>6.9mg/L</u> or 130% of upstream control station's SS at the same tide of the same day
	Stations M1-M	5	
SS in mg/L (See Note 2 and 4)	Surface	<u>6.2 mg/L</u> or 120% of upstream control station's SS at the same tide of the same day	<u>7.4 mg/L</u> or 130% of upstream control station's SS at the same tide of the same day
	Stations G1-G4	4, M1-M5	
	Bottom	<u>6.9 mg/L</u> or 120% of upstream control station's SS at the same tide of the same day	7.9 mg/L or 130% of upstream control station's SS at the same tide of the same day
	<u>Station M6</u>		-
	Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Ecology

Post-translocation Coral Monitoring

Parameter	Action Level Definition	Limit Level Definition
Mortality	If during Impact Monitoring a 15% increase	If during the Impact Monitoring a 25%
•	in the percentage of partial mortality on hard	increase in the percentage of partial
	corals occurs at more than 20% of the tagged	mortality occurs at more than 20% of the
	coral at any one Impact Monitoring Site that	tagged coral at any one Impact Monitoring
	is not recorded at the Control Site, then the	Site that is not recorded at the Control Site,
	Action Level is exceeded.	then the Limit Level is exceeded.

Landfill Gas Monitoring

Parameter	Limit Level
Oxygen	<19%
	<18%
Methane	>10% LEL (i.e. > 0.5% by volume)
	>20% LEL (i.e. > 1% by volume)
Carbon	>0.5%
Dioxide	>1.5%

APPENDIX C GRAPHICAL PRESENTATION OF AIR QUALITY MONITORING RESULTS









APPENDIX D GRAPHICAL PRESENTATION OF NOISE MONITORING RESULTS







APPENDIX F GRAPHICAL PRESENTATION OF MARINE WATER QUALITY MONITORING RESULTS

































APPENDIX G GRAPHICAL PRESENTATION OF LANDFILL GAS MONITORING RESULTS
APPENDIX G - RECORD OF LANDFILL GAS MONITORING BY THE CONTRACTOR

	OAV201 (/0/
rouon m 2-NOV-20 8:28 Sunny 22 0 0	20.9
Portion III 2-Nov-20 13:05 Sunny 25 0 0	20.9
Portion III 3-Nov-20 8:30 Sunny 24 0 0	20.9
Portion III 3-Nov-20 13:02 Sunny 26 0 0	20.9
Portion III 4-Nov-20 8:25 Cloudy 24 0 0	20.9
Portion III 4-Nov-20 13:00 Cloudy 28 0 0	20.9
Portion III 5-Nov-20 8:33 Sunny 24 0 0	20.9
Portion III 5-Nov-20 13:15 Sunny 30 0 0	20.9
Portion III 6-Nov-20 8:28 Cloudy 23 0 0	20.9
Portion III 6-Nov-20 13:02 Cloudy 25 0 0	20.9
Portion III 7-Nov-20 8:28 Cloudy 23 0 0	20.9
Portion III 7-Nov-20 13:04 Sunny 24 0 0	20.9
Portion III 9-Nov-20 8:25 Sunny 23 0 0	20.9
Portion III 9-Nov-20 13:05 Cloudy 24 0 0	20.9
Portion III 10-Nov-20 8:29 Sunny 22 0 0	20.9
Portion III 10-Nov-20 13:02 Sunny 26 0 0	20.9
Portion III 11-Nov-20 8:30 Sunny 22 0 0	20.9
Portion III 11-Nov-20 12:55 Sunny 28 0 0	20.9
Portion III 12-Nov-20 8:28 Sunny 21 0 0	20.9
Portion III 12-Nov-20 12:55 Sunny 25 0 0	20.9
Portion III 13-Nov-20 8:28 Cloudy 19 0 0	20.9
Portion III 13-Nov-20 13:08 Sunny 21 0 0	20.9
Portion III 14-Nov-20 8:27 Sunny 19 0 0	20.9
Portion III 14-Nov-20 13:00 Sunny 22 0 0	20.9
Portion III 16-Nov-20 8:25 Sunny 20 0 0	20.9
Portion III 16-Nov-20 13:15 Sunny 25 0 0	20.9
Portion III 17-Nov-20 8:32 Cloudy 23 0 0	20.9
Portion III 17-Nov-20 13:10 Cloudy 26 0 0	20.9
Portion III 18-Nov-20 8:25 Sunny 24 0 0	20.9
Portion III 18-Nov-20 13:05 Sunny 28 0 0	20.9
Portion III 19-Nov-20 8:25 Cloudy 24 0 0	20.9
Portion III 19-Nov-20 12:58 Cloudy 28 0 0	20.9
Portion III 20-Nov-20 8:35 Sunny 24 0 0	20.9
Portion III 20-Nov-20 13:30 Sunny 29 0 0	20.9
Portion III 21-Nov-20 8:27 Cloudy 23 0 0	20.9
Portion III 21-Nov-20 13.02 Cloudy 25 0 0	20.9
Portion III 23-Nov-20 8:28 Cloudy 23 0 0	20.9
Portion III 23-Nov-20 13:04 Cloudy 24 0 0 0	20.9
Portion III 24-Nov-20 8:30 Cloudy 22 0 0 0	20.9
Portion III 24-Nov-20 1301 Cloudy 25 0 0 0	20.9
Portion III 22-Nov-20 8:28 Sunny 22 0 0 0	20.9
Portion III 22-NOV-20 13:05 Sunny 20 0 0	20.9
Portion III 26-Nov-20 8:28 Sunny 22 0 0 0	20.9
rouorini 20-NOV-20 13300 Sunny 28 0 0 0 Portion III 27 Nov-20 13300 Sunny 28 0 0 0	20.9
Derion III 27-N0-20 6.29 Summy 21 0 0 0 Derion III 27 Nov.20 12.59 Summy 25 0 0 0	20.9
Derion III 27:509-20 12:30 Sumity 25 0 0 0 Portion III 28 Nov 20 8:20 Clouds 10 0 0 0	20.9
Derion III 26-K0V-20 6.29 Cloudy 19 0 0 0 Derion III 28 Nov 20 13:00 Cloudy 21 0 0 0	20.9
Portion III 30.Nov.20 13.00 C004y 21 0 0 0	20.9
Derion III 30-100-20 01 Junny 17 0 0 0 Portion III 30-100-20 01 Junny 17 0 0 0	20.9
Derion III 1.0ec-20 12.3 Junny 22 0 0 0 Portion III 1.0ec-20 8-28 Sunny 17 0 0 0	20.9
Portion III 1-Dec-20 13:00 Sunny 21 0 0	20.9

APPENDIX G - RECORD OF LANDFILL GAS MONITORING BY THE CONTRACTOR

Location	Date of Measurement	Sampling time	Weather Condition	Temperature (°C)	Methane (%)	Carbon dioxide (%)	Oxygen (%)
Portion III	2-Dec-20	8:30	Sunny	17	0	0	20.9
Portion III	2-Dec-20	13:05	Sunny	21	0	0	20.9
Portion III	3-Dec-20	8:32	Sunny	16	0	0	20.9
Portion III	3-Dec-20	13:08	Sunny	19	0	0	20.9
Portion III	4-Dec-20	8:31	Cloudy	14	0	0	20.9
Portion III	4-Dec-20	13:02	Sunny	17	0	0	20.9
Portion III	5-Dec-20	8:30	Cloudy	13	0	0	20.9
Portion III	5-Dec-20	13:03	Cloudy	18	0	0	20.9
Portion III	7-Dec-20	8:30	Cloudy	18	0	0	20.9
Portion III	7-Dec-20	13:08	Sunny	22	0	0	20.9
Portion III	8-Dec-20	8:36	Cloudy	18	0	0	20.9
Portion III	8-Dec-20	13:10	Cloudy	20	0	0	20.9
Portion III	9-Dec-20	8:30	Cloudy	19	0	0	20.9
Portion III	9-Dec-20	13:08	Cloudy	20	0	0	20.9
Portion III	24-Dec-20	8:35	Sunny	18	0	0	20.9
Portion III	24-Dec-20	13:05	Sunny	21	0	0	20.9
Portion III	28-Dec-20	8:31	Cloudy	19	0	0	20.9
Portion III	28-Dec-20	13:03	Sunny	22	0	0	20.9
Portion III	29-Dec-20	8:30	Sunny	19	0	0	20.9
Portion III	29-Dec-20	13:10	Sunny	23	0	0	20.9
Portion III	30-Dec-20	8:30	Cloudy	11	0	0	20.9
Portion III	30-Dec-20	13:06	Sunny	20	0	0	20.9
Portion III	31-Dec-20	8:35	Sunny	8	0	0	20.9
Portion III	31-Dec-20	13:10	Sunny	13	0	0	20.9
Portion III	2-Jan-21	8:35	Sunny	9	0	0	20.9
Portion III	2-Jan-21	13:45	Sunny	14	0	0	20.9
Portion III	22-Jan-21	8:28	Sunny	18	0	0	20.9
Portion III	22-Jan-21	13:03	Sunny	23	0	0	20.9
Portion III	23-Jan-21	8:33	Sunny	17	0	0	20.9
Portion III	23-Jan-21	13:15	Sunny	24	0	0	20.9
Portion III	25-Jan-21	8:35	Cloudy	17	0	0	20.9
Portion III	25-Jan-21	13:21	Cloudy	21	0	0	20.9
Portion III	26-Jan-21	8:25	Cloudy	17	0	0	20.9
Portion III	26-Jan-21	13:45	Sunny	23	0	0	20.9
Portion III	27-Jan-21	8:31	Cloudy	14	0	0	20.9
Portion III	27-Jan-21	13:21	Cloudy	16	0	0	20.9
Portion III	28-Jan-21	8:40	Cloudy	13	0	0	20.9
Portion III	28-Jan-21	13:45	Cloudy	18	0	0	20.9
Portion III	29-Jan-21	8:27	Sunny	8	0	0	20.9
Portion III	29-Jan-21	13:20	Sunny	14	0	0	20.9
Portion III	30-Jan-21	8:21	Sunny	10	0	0	20.9
Portion III	30-Jan-21	13:30	Sunny	16	0	0	20.9

APPENDIX G - RECORD OF LANDFILL GAS MONITORING BY THE CONTRACTOR



APPENDIX H SITE AUDIT SUMMARY

Appendix H - Site Audit Summary

Contract No. — NE2015/01

Tseung Kwan O - Lam Tin Tunnel — Main Tunnel and Associated Works

Items	Date	Status*	Follow up Action			
Water Quality						
Although washing wheels by workers was provided, no washing wheel bay was installed in the exit of LTI to provide enough cleaning of wheels. Contractor is reminded to provide a bay with adequate design.	18-Nov-20	1	25-Nov-20: Despite the wheel-washing bay was not installed. The Contractor had order the worker to wash the wheel more throughoutly. No muddy trails was find outside of the site exit.			
Ecology	1		1			
Noise	1	1	1			
Landscape and Visual	1	1				
Air Quality			1			
The Contractor is reminded to sprinkle water to suppress dust emission	4-Nov-20	1	4-Nov-20: The Contractor had sprinkled water later on that day.			
3-sided shield shall be provided to the grout pump to suppress dust nuisance generated by related construction activities.	25-Nov-20	#				
Waste/Chemical Management	•		•			
Chemicals in S01 should be placed in a drip tray to prevet chemical leakage.	28-Oct-20	~	4-Nov-20: The Contractor had removed the chemicals.			
General Waste was accumulated near slope of S01 tunnel.	28-Oct-20	~	4-Nov-20: The waste had been removed.			
Fuel was found leaking at the end of the fuel truck.	25-Nov-20	√	25-Nov-20: The Contractor immediately stopped the truck and ensure the hose was propoerly shut before the truck continues to leave.			
Impact on Cultural Heritage						
Permit/Licenses						

 \checkmark Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit

× Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit

Follow up action will be reported in next reporting month

* Non-compliance of mitigation measure

Appendix H - Site Audit Summary

Contract No. — NE2015/02

Tseung Kwan O - Lam Tin Tunnel — Road P2 and Associated Works

Items	Date Status*		Follow up Action			
Water Quality						
Ecology						
Noise						
Landscape and Visual						
Air Quality						
All PME shall be turned off when not in use.	12-Nov-20	~	12-Nov-20: The Contractor had immediately request the operator to turn off the engine			
The Contractor is reminded to sprinkle water more thoroughly.	12-Nov-20	√	19-Nov-20: The Contractor requested the worker to sprinkle water more freqently and most of the soil was found dry during site inspection.			
Waste/Chemical Management		•				
The Contractor is reminded to collect general refuse at a timely manner.	12-Nov-20	~	19-Nov-20: The general refuse was removed.			
Impact on Cultural Heritage						
Permit/Licenses						

 \checkmark Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit

× Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit

Follow up action will be reported in next reporting month

 $\boldsymbol{*}$ Non-compliance of mitigation measure

Appendix H - Site Audit Summary

Contract No. — NE2017/02

Tseung Kwan O - Lam Tin Tunnel — Road P2/D4 and Associated Works

Items	Date	Status*	Follow up Action			
Water Quality						
Ecology			-			
Noise						
The Contractor is reminded to fix the gap			14-Nov-20:			
between acoustic sheets to ensure the proper	12-Nov-20	√	The related PME had completed it's mission			
function of noise barrier.			and was removed from the site.			
Landscape and Visual			-			
Air Quality						
Waste/Chemical Management						
Impact on Cultural Heritage						
Permit/Licenses						

 \checkmark Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit

X Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit

Follow up action will be reported in next reporting month

 $\boldsymbol{\ast}$ Non-compliance of mitigation measure

Appendix H - Site Audit Summary

Contract No. — NE2017/01

Tseung Kwan O - Lam Tin Tunnel — Tseung Kwan O Interchange and Associated Works

Items	Date	Status*	Follow up Action			
Water Quality						
Ecology	-		-			
Noise						
Landscape and Visual						
Air Quality	-					
Waste/Chemical Management						
Impact on Cultural Heritage						
Permit/Licenses						

 \checkmark Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit

× Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit

Follow up action will be reported in next reporting month

* Non-compliance of mitigation measure

Appendix H - Site Audit Summary

Contract No. — NE2015/01

Tseung Kwan O - Lam Tin Tunnel — Main Tunnel and Associated Works

Items	Date	Status*	Follow up Action			
Water Quality						
Ecology						
Noise		·				
The Contractor is reminded to repair the noise barrier before the construction works in that location begins in order to ensure proper implementation of the noise mitigation plan.	9-Dec-20	√	9-Dec-20:			
The Contractor is reminded to close the gaps between acoustic sheets to ensure proper functioning of the noise barrier.	9-Dec-20	~	The noise barrier was repaired.			
Landscape and Visual	1	•				
Air Quality						
3-sided shield shall be provided to the grout pump to suppress dust nuisance generated by related construction activities.	25-Nov-20	✓	2-Dec-20: The Contractor had provided 3-sided shield.			
The Contractor is reminded to cover the open stockpile.	9-Dec-20	~	9-Dec-20: The stockpile was removed.			
Waste/Chemical Management						
Drip tray shall be provided to the chemical at Portion VII.	3-Dec-20	1	3-Dec-20: The chemical is rmoved.			
Accumulated general refuse shall be clean up at Portion III.	3-Dec-20	~	9-Dec-20: The general refuse is rmoved.			
The Contractor is reminded to clean up the general refuse at Slope H	9-Dec-20	~	9-Dec-20: The general refuse is rmoved.			
Drip tray shall be provided to the chemicals in Portion IVC.	9-Dec-20	~	30-Dec-20: The chemicals were removed.			
The Contractor is reminded to remove the accumulated refuse at a timely refuse at a timely manner	30-Dec-20	#				
Impact on Cultural Heritage						
Permit/Licenses		<u> </u>				

✓ Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit

× Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit

Follow up action will be reported in next reporting month

- * Non-compliance of mitigation measure
- Non-compliance but improved by the contractor

Appendix H - Site Audit Summary

Contract No. — NE2015/02

Tseung Kwan O - Lam Tin Tunnel — Road P2 and Associated Works

Items	Date	Status*	Follow up Action				
Water Quality	Water Quality						
Water ponding near drainage should be avoided.	17-Dec-2020	√	No water ponding was observed during the site inspection on 24 December 2020				
Ecology		-					
Noise							
The Contractor is reminded to close the gaps between noise barriers to ensure proper implementation of approved CNMP.	3-Dec-2020	√	No significant gap was discovered on the noise barrier during the site inspection section on 10 December 2020				
Landscape and Visual							
Air Quality							
The Contractor is reminded to water regularly to suppress dust emission	31-Dec-2020	#	-				
Waste/Chemical Management	•	-					
A drip tray should be placed under oil barrels.	17-Dec-2020	~	24 Dec 2020: The chemical was removed.				
The Contractor is reminded to remove accumulated general refuse	31-Dec-2020	~	31 Dec 2020: The Contractor had removed the refuse immediately.				
Impact on Cultural Heritage	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·					
Permit/Licenses							

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Follow up action will be reported in next reporting month

* Non-compliance of mitigation measure

Appendix H - Site Audit Summary

Contract No. — NE2017/02

Tseung Kwan O - Lam Tin Tunnel — Road P2/D4 and Associated Works

Items	Date	Status*	Follow up Action				
Water Quality							
Ecology							
Noise							
Landscape and Visual							
Air Quality							
Waste/Chemical Management	-						
Impact on Cultural Heritage							
Permit/Licenses							

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Follow up action will be reported in next reporting month

* Non-compliance of mitigation measure

Appendix H - Site Audit Summary

Contract No. — NE2017/06

Tseung Kwan O - Lam Tin Tunnel — Traffic Control and Surveillance System (TCSS) and Associated Works

Items	Date	Status*	Follow up Action				
Water Quality							
Ecology			- -				
Noise	-						
Landscape and Visual							
Air Quality	-	-					
Waste/Chemical Management							
Impact on Cultural Heritage							
Permit/Licenses							

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Follow up action will be reported in next reporting month

* Non-compliance of mitigation measure

Appendix H - Site Audit Summary

Contract No. — NE2017/01

Tseung Kwan O - Lam Tin Tunnel — Tseung Kwan O Interchange and Associated Works

Items	Date	Status*	Follow up Action			
Water Quality						
Ecology			·			
Noise						
Landscape and Visual						
Air Quality						
Waste/Chemical Management	-					
Impact on Cultural Heritage						
Permit/Licenses						

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Follow up action will be reported in next reporting month

* Non-compliance of mitigation measure

Appendix H - Site Audit Summary

Contract No. - NE2015/01

Tseung Kwan O - Lam Tin Tunnel — Main Tunnel and Associated Works

Items	Date	Status*	Follow up Action			
Water Quality						
Ecology						
Noise						
A driller was operated without a noise barrier. The contractor is reminded to provide a cantilever noise barrier to reduce noise impact.	27-Jan-21	#				
Landscape and Visual						
Air Quality						
Stockpiles of dusty materials should be covered by tarpaulin and watered	27-Jan-21	#				
Waste/Chemical Management						
A drip tray should be provided for chemicals.	27-Jan-21	#				
The Contractor is reminded to remove the accumulated refuse at a timely refuse at a timely manner	30-Dec-20	~	The accumulated refuse is removed immediately.			
Impact on Cultural Heritage						
Permit/Licenses						

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Follow up action will be reported in next reporting month

 $\boldsymbol{*}$ Non-compliance of mitigation measure

Appendix H - Site Audit Summary

Contract No. — NE2015/02

Tseung Kwan O - Lam Tin Tunnel — Road P2 and Associated Works

Items	Date	Status*	Follow up Action
Water Quality		-	
Ecology			
Noise			
The Contractor is reminded to close the gap of the Silence-Up barrier around the wet-sep.	7-Jan-21	√	8 Jan 2021: The Silence-Up was properly closed.
Landscape and Visual		-	
Air Quality			
The Contractor is reminded to water regularly to suppress dust emission	31-Dec-20	~	7 Jan 2021: The site area appears to be wet during the site audit session on 7th Jan 2021.
The contractor is reminded to water frequently to suppress dust emission	14-Jan-21	~	14 Jan 2021: The Contractor immediately request the worker to sprinkle water
The contractor is reminded to turn off the idle PME when not in use.	28-Jan-21	~	28 Jan 2021: The idle PME was turned off immediately
Waste/Chemical Management			
The contractor is reminded to remove refuse/ provide rubbish bin near the staircase at Portion XI.	21-Jan-21	~	21 Jan 2021: The refuse had been removed immediately
Impact on Cultural Heritage			
Permit/Licenses			

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Follow up action will be reported in next reporting month

* Non-compliance of mitigation measure

Appendix H - Site Audit Summary

Contract No. - NE2017/02

Tseung Kwan O - Lam Tin Tunnel — Road P2/D4 and Associated Works

Items	Date	Status*	Follow up Action
Water Quality			
Ecology			
Noise			
Landscape and Visual	•		
Air Quality			
The Contractor is reminded to cover the stockpile that is not in use.	7-Jan-21	√	13-Jan-2021: The stockpile had been removed and bricks had been placed.
The contractor is reminded to keep the public road around the site entrance clean and free from dust.	28-Jan-21	~	28-Jan-2021: The public road was cleaned immediately.
Waste/Chemical Management			
Impact on Cultural Heritage			
Permit/Licenses			

 \checkmark Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit

X Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit

Follow up action will be reported in next reporting month

* Non-compliance of mitigation measure

Appendix H - Site Audit Summary

Contract No. - NE2017/06

Tseung Kwan O - Lam Tin Tunnel — Traffic Control and Surveillance System (TCSS) and Associated Works

Items	Date	Status*	Follow up Action
Water Quality			
Ecology			
Noise			
Landscape and Visual			
Air Quality			
Waste/Chemical Management			
Impact on Cultural Heritage			
Permit/Licenses			

✓ Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit

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Follow up action will be reported in next reporting month

* Non-compliance of mitigation measure

Appendix H - Site Audit Summary

Contract No. - NE2017/01

Tseung Kwan O - Lam Tin Tunnel — Tseung Kwan O Interchange and Associated Works

Items	Date	Status*	Follow up Action
Water Quality			
Ecology			
Noise			
Landscape and Visual			
Air Quality			
Waste/Chemical Management			
Impact on Cultural Heritage			
Permit/Licenses			

✓ Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit

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Follow up action will be reported in next reporting month

* Non-compliance of mitigation measure

APPENDIX I ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

AppI - IMPLEMENTATION SCHEDULE AND RECOMMANDED MITIGATION MEASURES

Table I - Recommended Mitigation Measures stipulated in EM&A Manual for the Project

EIA Ref. / EP Submission	a Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
Air Quality						
S3.8.1	Watering eight times a day on active works areas, exposed areas and paved haul roads	To minimize the dust impact	Contractor	All Active Work Sites	Construction phase	APCO
S3.8.1	Enclosing the unbading process at barging point by a 3-sided screen with top tipping hall / mixing area in Work Area A, provision of water spraying and flexible dust curtains	To minimize the dust impact	Contractor	Barging Points	Construction phase	APCO
S3.8.7	 Every stock of more than 20 bags of cament or dry pulverised fuel ash. (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides. Use of frequent watering for particularly dusty construction areas and areas close to ASRs. Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines. Side enclosure and covering of any aggregate or dusty material storage piles near ASRs. Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. Terpaulin covering of all dusty vehicle loads transported to, from and between site locations. Terpaulin covering of all dusty vehicle loads transported to, from and between site locations. Provision of vind shield and dust extraction units or similar dust mitigation measures at the loading area of basing point, and use of vater sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/period. Provision of front less than 2.4m high hoarding from ground level along site boundary where adjoins area of barging point, and use of twater sprinklers at the loading area of basine process of loose material. Provision of front less than 2.4m high hoarding from ground level along site boundary where adjoins area of barging process of loose material. Provision of front less than 2.4m high hoarding from ground level along site boundary where adjoins area of barging process of loose material, particularly in dry seasons period. Provision of front less than 2.4m high hoarding from ground level along site boundary where adjoins area of barging proces or or the public except for a site	To minimize the dust impact	Contractor	All Construction Work Sites	Construction phase	APCO and Air Pollution Control (Construction Dust) Regulation
~	 Emission from Vehicles and Plants All vehicles shall be shut down in intermittent use. All vehicles shall be shut down in intermittent use. Only well-maintained plant should be operated on-site and plant should be serviced regularly to avoid emission of black smoke. All diesel fuelled construction plant within the works areas shall be powered by ultra low subhur diese fuel (OLSD) 	Reduce air pollution emission from construction vehicles and plants	Contractor	All construction sites	Construction stage	APCO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
/	Valid No-road Mobile Machinery (NRMM) labels should be provided to regulated machines	Reduce air pollution emission from construction vehicles and plants	Contractor	All construction sites	Construction stage	APCO
Noise Impact (Consti	ruction Phase)					
S4.8	Use of quiet PME. Use of movable noise barriers for Excavator, Lorry, Durnp Truck, Mobile Crane, Compactor, Concrete Mixer Truck, Concrete Lorry Mixer, Breaker, Mobile Crusher, Backhoe, Vibratory Poker, Saw, Asphalt Paver, Vibratory Roller, Vibratory Poker, Saw, Asphalt Paver, Vibratory Roller, Vibratory Lance and Piling (Vibration Hammer). Use of full enclosure for Air Compressor, Compressor, Bar Bender, Generator, Drilling Rig, Chisel, Large Diameter Bore Piling, Grout Mixer & Pump and Concrete Pump.	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work Sites	Construction phase	EIAO-TM, NCO
Noise Mitigation Plan	Use of Temporary Noise Barriers (i.e Acoustic box, SilentUp and etc.) or Full Enclosure for PME according to the approved Noise Mitigation Plan	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work Sites	Construction phase	EIAO-TM, NCO
S4.9	 Good Site Practice Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program Silencers or muffrers on construction optiment should be utilized and should be properly maintained during the construction program. Nobiel plant, fiany, should be sited as far away from NSRs as possible. Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum. Plant known to emit noise strongly in one direction should, where ver possible, be oriented a value is directed avay from the nearby NSRs. Material stockples and other structures should be effectively utilized, wherever practicable, in secreming noise for on environments. 	To minimize construction noise impact arising from the Project at the affected NSRs	Project Proponent	Work sites	Construction Period	EIAO-TM, NCO
S4.9	Scheduling of Construction Works during School Examination Period	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work site near school	Construction phase	EIAO-TM, NCO
Water Quality Impa-	ct (Construction Phase)	1				
S5.6.24	The dry density of filling material for the TKO-LT Tunnel reclamation should be 1,900kg/m ³ , with fine content of 25% or less	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
S5.8.1	Non-dredged method by constructing steel cellular caisson structure with stone column shall be adopted for construction of seawall foundation. During the stone column installation (also including the installation of steel cellular caisson), silt curtain shall be employed around the active stone column installation points.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
S5.8.2	Formation of seawall enclosing the reclamation for Road P2 (notwithstanding an opening of about 50m for marine access) shall be completed prior to the filling activities. The seawall opening of about 50m wide for marine access shall be selected at a location as indicatively shown in Appendix 5.10. No more than 3 filling barge trips per day shall be made with a maximum day rate of $3,000m^3$ (i.e. 1,000 m^3 per trip) for the filling operation at the reclamation area for Road P2. All filling works shall be carried out behind the seawall with the use of single slit curtain at the marine access.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
Silt Curtain Deployment Plan	 Silt curtains should be deployed properly to surround the works area. Maintenance of silt curtain should be provided. Sufficient stock of silt curtain should be provided on site. 	Control potential impacts from marine woroks	Contractor	NE/2015/01	Construction stage	EIAO

EIA Ref. / EP Submission	n Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S5.8.3	 Other good site practices should be undertaken during filling operations include: all marine works should adopt the environmental friendly construction methods as far as practically possible including the use of cofferdams to cover the construction area to separate the construction works from the sea; floating single silt curtain shall be employed for all marine works; all vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tote conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; all hopper burges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material. excess material shall be cleaned from the decks and exposed fittings of barges before the vesel is moved; excess material shall be cleaned from the decks and exposed fittings of barges before the vesel is moved; adquate freeboard shall be maintained on barges to reduce the likelihood of decks being wave action. adquate freeboard shall be controlled to prevent splashing of filling material into the surrounding water. Barges or hoppers should not be operated with leaking prevent leakages shall be repaired quickly. Plant should not be operated with leaking pres; any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes; construction activities should not cause fram, oil, grease, earm, litter or other objectionable matter to be present on the water within the site or dumping grounds; and operation of the sit curtain. 	Control potential impacts from filling activities and marine-based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TN, WPCO, Waste Disposal Ordinance (WDO)
S5.8.4	Site specific mitigation plan for reclamation areas using public fill materials should be submitted for EPD agreement before commencement of construction plase with due consideration of good site practices.	Control potential impacts from filling activities and marine based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
ERR S5.6.1	 To minimize water quality impact arising from the dredging and filling works for Reclamation for Road P2, the following mitigation measures shall be implemented: Before carrying out any dredging and underwater filling works, a temporary barrier shall first be constructed to a height above the high water mark to completely enclose the works site (without any opening at the barrier wall) The temporary barrier fully enclosing the dredging and underwater filling works site shall not be removed before completion of all dredging and underwater filling works. Water quality sampling and testing shall be carried out to demonstrate that the water quality inside the enclosed barrier is comparable to the ambient or baseline levels prior to the removal of the fully enclosed barrier. Silt curtains shall be deployed for the installation and removal of the temporary barrier and at the double water gates marine access opening during the operation. 	Control potential impacts from dredging and filling works for Reclamation for Road P2	CEDD's Contractors	Work site	Construction Phase	Propecc PN 1/94, EIAOTM, WPCO
\$5.8.5 \$5.8.6 \$5.8.6	It is important that appropriate measures are implemented to control runoff and drainage and prevent high bading of SS from entering the marine environment. Proper site management is essential to minimise surface water runoff, soil erosion and sewage effluents. Any practical options for the diversion and realignment of drainage should comply with both engineering and environmental requirements in order to ensure adequate hydraulic capacity of all	Control potential impacts from construction site runoff and land-based construction Control potential impacts from construction site	CEDD's Contractors CEDD's Contractors	Work site Work site	Construction Phase Design Stage and	ProPECC PN 1/94, EIAOTM, WPCO ProPECC PN 1/94, EIAOTM, WPCO, TM- Disc
0.0.00	engmeering and environmentat requirements in order to ensure adequate nyaraune capacity of an drains.	runoff and land-based construction	CEDD'S CORFACTORS	WOLK SILC	Construction Phase	DSS

What requirements or standards for the measures to achieve?	ProPECC PN 1/94, ELAOTM, WPCO, TM- DSS	ProPECC PN 1/94, EIAOTM, WPCO	ProPECC PN 1/94, EIAOTM, WPCO	Propecc pN 1/94, EIAOTM, WPCO	ProPECC PN 1/94, EIAOTM, WPCO	ProPECC PN 1/94, EIAOTM, WPCO	ProPECC PN 1/94, EIAOTM, WPCO	ProPECC PN 1/94, EIAOTM, WPCO	Propecc PN 1/94, EIAOTM, WPCO
When to Implement the measures?	Construction Phase	Construction Phase	Construction Phase	Construction Phase	Construction Phase	Construction Phase	Construction Phase	Construction Phase	Construction Phase
Location of the measures	Work site	Work site	Work site	Work site	Work site	Work site	Work site	Work site	Work site
Who to implement the measures?	CEDD's Contractors	CEDD's Contractors	CEDD's Contractors	CEDD's Contractors	CEDD's Contractors	CEDD's Contractors	CEDD's Contractors	CEDD's Contractors	CEDD's Contractors
Objectives of the recommended Measures & Main Concerns to address	Control potential impacts from construction site runoff and land-based construction	Control potential impacts from construction site runoff and land-based construction	Control potential impacts from construction site runoff and land-based construction	Control potential impacts from construction site runoff and land-based construction	Control potential impacts from construction site runoff and land-based construction	Control potential impacts from construction site runoff and land-based construction	Control potential impacts from construction site runoff and land-based construction	Control potential impacts from construction site runoff and land-based construction	Control potential impacts from construction site runoff and land-based construction
Recommended Mitigation Measures	Construction site runoff and drainage should be prevented or minimised in accordance with the guidelines stipulated in the EPD's Practice Note for Professional Persons, Construction Site Drainage (ProPECC PN 1/94), Good housekeeping and stormwater best management practices, as detailed in below, should be implemented to ensure that all construction runoff complex with WPCO standards and no unacceptable impact on the WSRs areas due to construction of the TKO-LT Tunnel. All discharges from the construction site should be controlled to comply with the standards for effluents discharged into the corresponding WCZ under the TM-DSS.	Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include:	Construction site should be provided with adequately designed perimeter channel and pretreatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary diaches should be para surrounded to facilitae runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainge channels should incorporate sediment basins or traps and baffles to enhance deposition mas. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94.	Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks (where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other ineans.	Sedimentation tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8m ³ capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped.	Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary.	Measures should be taken to minimize the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50m ³ should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.
EIA Ref. / EP Submission	S5.8.7	S5.8.8 S5.8.8 S5.8.8 S5.8.8	S5.8.9	S5.8.10	S5.8.11	S5.8.12	S5.8.13	S5.8.14	S5.8.15

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$5.8.16	Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forceast, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	Propecc PN 1/94, EIAOTM, WPCO
S5.8.17	Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.18	All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and located wheel washing bay should be provided at every site exit, and washwater should have sand and silf settled out and are subound at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheelwash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, ELAOTM, WPCO
S5.8.19	Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.20	It is recommended that on-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps should be installed in order to minimise the sediment loading of the effluent prior to discharge into foul severs. There shall be no direct discharge of effluent from the sic into the sea.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, ELAOTM, WPCO
S5.8.21	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	Propecc PN 1/94, EIAOTM, WPCO
S5.8.22	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.23	Minimum distances of 100m shall be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes during construction and operational phases	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, TMDSS
S5.8.24	Under normal circumstances, groundwater pumped out of wells, etc. for the lowering of ground water level in basement or foundation construction, and groundwater scepage pumped out of tunnels or caverns under construction should be discharged into storm drains after the removal of silt in silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	Propecc PN 1/94, EIAOTM, WPCO

EIA Ref. / EP Submission	ı Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S5.825 - S5.8.27 & Table 5.18	Grouting would be adopted as measure to reduce the groundwater inflow into the tunnel. During the tunnel excavation, the inflow rate of groundwater into the tunnel will be measured during the excavation. The groundwater levels above the tunnel will also be monitored by piezometers. If the inflow rate exceeds the pre-determined groundwater control criteria or the groundwater dawdown. No significant change of groundwater levels would therefore be expected. Any chemicals/ forming agents which would be entrained to the groundwater radius of the groundwater inflow. No significant change of groundwater levels would be biodegradable and non-toxic agents which would be entrained to the groundwater quality unpact would be minimal as the used material is non-toxic and mare of the tunnel construction. Potential groundwater quality inpact would be minimal as the used material is non-toxic and mare of the groundwater levels and therefore be expected. Preserve the groundwater levels at all times during the tunnel construction are set out in Table 5.18.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, Buiklings Ordinance
S5.8.28	Water used in ground boring and drilling for site investigation or rock / soil anchoring should as far as practicable be recirculated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phas	ProPECC PN 1/94, ELAOTM, WPCO
S5.8.29 - S5.8.31	Wastewater generated from the washing down of mixing trucks and drum mixers and similar equipment should whenever practicable be recycled. The discharge of wastewater should be kept to a minimum. To prevent polition from wastewater overflow, the pump sump of any water recycling system should be provided with an online standby pump of adequate capacity and with automatic alternating devices. Under normal circumstances, surplus wastewater may be discharged into foul sevens after treatment in silt removal and pH adjustment facilities (to within the pH range of 6 to 10). Disposal of wastewater into storm drains will require more elaborate treatment.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.32	All vehicles and plant should be cleaned before they leave a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be prevent silt to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.33	Bentonite slurries used in diaphragm wall and borepile construction should be reconditioned and reused wherever practicable. If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.34	If the used bentonite slurry is intended to be disposed of through the public drainage system, it should be treated to the respective effluent standards applicable to foul sewer, storm drains or the receiving waters as set out in the WPCO Technical Memorandum on Effluent Standards.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.35	Water used in water testing to check leakage of structures and pipes should be reused for other purposes as far as practicable. Surplus unpolluted water could be discharged into storm drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.36	Sterilization is commonly accomplished by chlorination. Specific advice from EPD should be sought during the design stage of the works with regard to the disposal of the sterilizing water. The sterilizing water should be reused wherever practicable.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.37	Before commencing any demolition works, all sewer and drainage connections should be sealed to prevent building debris, soil, sand etc. from entering public sewers/drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

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S5.8.38	Wastewater generated from building construction activities including concreting, plastering, internal decoration, cleaning of works and similar activities should not be discharged into the stornwater drainage system. If the wastewater is to be discharged into foul sewers, it should undergo the removal of settleable solids in a silt removal facility, and pH adjustment as necessary	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, ELAOTM, WPCO	
S5.8.39	Acidic wastewater generated from acid cleaning, etching, pickling and similar activities should be neutralized to within the pH range of 6 to 10 before discharging into foul sewers. If there is no public foul sewer in the vicinity, the neutralized wastewater should be inkered off site for disposal into foul sewers or treated to a standard acceptable to storm drains and the receiving waters	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	Propecc PN 1/94, EIAOTM, WPCO	
S5.8.40	Wastewater collected from canteen kitchens, including that from basins, sinks and floor drains, should be discharged into foul sewer via grease traps capable of providing at least 20 minutes retention during peak flow.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO	
S5.8.41	Drainage serving an open oil filling point should be connected to storm drains via a petrol interceptor with peak storm bypass.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO	
S5.8.42	Vehicle and plant servicing areas, vehicle wash bays and lubrication bays should as far as possible be located within roofed areas. The drainage in these covreted areas should be connected to foul sewers via a petrol interceptor. Oil leakage or spillage should be contained and cleaned up immediately. Waste oil should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO	
S5.8.43	Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage may need to be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO	
S5.8.44	Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, WDO	
S5.8.45	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO	
S5.8.46	 Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The "Code of Practice on the Packaging, Labeling and Storage of Chemical Wastes" published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: a suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport; a strable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport; c chemical waste containers should be suitably labelled, to notify and warn the persomel who are handling the wastes, to avoid accidents; and a storage area should be selected at a safe location on site and adequate space should be allocated to the solare area. 	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, WDO	
S5.8.47	Collection and removal of floating refuse should be performed at regular intervals on a daily basis. The contractor should be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.	Control potential impacts from floating refuse and debris	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO,	
ogical Impact							

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S6.8.4	 Measures to Minimize Disturbance Use of Quiet Mechanical Plant during the construction phase should be adopted wherever possible. Hoarding or fencing should be creeted around the works area boundaries during the construction phase. The hoarding would screen adjacent habitats from construction phase activities, reduce noise disturbance to these habitats and also to restrict access to habitats adjacent to works area by site workers; Regular spraying of haul roads to minimize impacts of dust deposition on adjacent vegetation and habitats during the construction activities. 	Minimize noise, human and traffic disturbance to terrestrial habitat and wildlik; and reduce dust generation	Design Team / Contractor	Land-based works are	Construction Phase	NA
S6.8.5	 Standard Good Site Practice Placement of equipment or stockpile in designated works areas and access routes selected on existing disturbed land to minimise disturbance to natural habitats. Construction activities should be restricted to works areas that should be clearly demarcated. The works areas should be restricted to works areas that should be clearly demarcated. The works areas should be restricted in a differ completion of the works. Waste skips should be provided to collect general refuse and construction wastes. The wastes should be provided to collect general refuse and construction wastes. The wastes should be provided to collect general refuse and construction steperly disposed off-site in a timely mamer. General drainage arrangements should include sediment and oil traps to collect and control construction site run-off. Open burning on works sites is illegal, and should be strictly prohibited. Masures should also be put into place so that litter, fuel and solvents do not enter the nearly varieronize. 	Reduce disturbance to surrounding habitats	Contractor	Land-based works are	Construction Phase	N/A
S6.8.6	 Measure to Minimize Groundwater Inflow The drained tunnel construction method with groundwater inflow control measures would generally be adopted. During the tunnel exervation, pre-excavation grouting could be adopted to reduce the groundwater inflow and ensure that the tunnel would meet the long term water tightness requirements. 	Minimize groundwater inflow	Contractor	Tumel	Construction Phase	ΝΆ
S6.8	 Measure to Minimize Impact on Conds Measure to Minimize Impact on Conds Conal translocation It is recommended to translocate the affected coral colonies, except the locally common Oulcastrea crispata, within the reclamation area and bridge footprint to the other suitable locations as far as practicable. The coral translocation should be conducted during the winter months (November-March) in order to avoid disturbance during the rispawning period (i.e. July to October). A detailed coral translocation plan with a description on the methodology for pretranslocation reconstances and bridge footprint to the prepared during the detailed design stage. The conal translocation plan should be subject to approval by relevant authorities (e.g. EPD and AFCD) before commencement of the coral translocation. All the translocation for the conducted by experienced marine ecologist(s) who is/are approved by AFCD prior to commencement of coral translocation. Post translocation for any coral translocation. 	Minimize loss of coral	Design team, contractor, project operator	Within reclamation areas and pier footprint	Prior construction	νv

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	 Information gathered during each posttranslocation monitoring survey should include observations on the presence, survival, health condition and growth of the translocated coral colonies. These parameters should then be compared with the baseline results collected from the pre-translocation survey. 					
S6.8.9 S6.8.10	 Measure to Control Water Quality Impact Deployment of silt curtains around the active stone column installation points, opening of newly installed seavall and marine works area. Diverting of the site runoff to silt trap facilities before discharging into storm drain; Proper waste and dumping management; and Standard good-site practice for land-based construction. 	Control water quality impact, especially on suspended solid level, minimize the contamination of wastewater discharge, accidental chemical spillage and construction site runoff to the receiving water bodies	Design Team, contractor	Marine and landbased works area	Construction phase	oðm
S68.11	 Compensation for Vegetation Loss Felling of mature trees should be compensated by planting of standard or heavy standard trees within or in vicinity of the affected area as far as practicable. Such compensatory planting for trees should be provided with at least a 1:1 ratio. In addition, vegetation at the temporarily affected area should be reinstated with species similar to the existing condition. 	Compensate for the vegetation loss	Design Team, contractor	Land-based works area	Construction phase	N/A

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Fisheries Impact						
S7.7.3	Measure to Control Water Quality Impact • Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area.	Control water quality impact, especially on suspended solid level	Design Team / Contractor	Marine work area	Construction phase	oðm
Waste Management	(Construction Phase)					
	Good Site Practices and Waste Reduction Measures					
58 63	 Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; Training of site personnel in site cleanliness, proper waste management and chemical handling procedures; 	To reduce waste management imnacts	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354)
	 Provision of sufficient waste disposal points and regular collection of waste; 					I and (Miscellaneous Provisions) Ordinance
	 Appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers, and Recular cleaning and maintenance programme for drainage systems, summs and oil 					(Cap. 28) (Cap. 28)
	interceptors.					
	Good Site Practices and Waste Reduction Measures (con't)					
	 Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; 					Waste Disposal Ordinance (Cap. 354)
S8.6.4	 Encourage collection of aluminium cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the workforce; 	To achieve waste reduction	Contractor	All work sites	Construction Phase	
	 Proper storage and site practices to minimize the potential for damage or contamination of construction materials, and Plan and stock construction materials carefully to minimize amount of waste generated and avoid immorsavian churaction of waste 					Land (Miscellaneous Provisions) Ordinance (Cap. 28)
	Good Site Practices and Waste Reduction Measures (con't)					
S.6.5	The Contractor shall prepare and implement a WMP as part of the EMP in accordance with ETWB TCW No. 19/2005 which describes the arrangements for subdance, rese, recovery, recycling, storage, collection, treatment and sigosal of different categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such a designation of aceas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval. The Contractor should implement the waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor.	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.6	 Good Site Practices and Waste Reduction Measures (con't) C&D materials would be reused in the project and other local concurrent projects as far as possible. 	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005

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S8.6.7	 Storage, Collection and Transportation of Waste Should any temporary storage or stockpiling of waste is required, recommendations to minimize the impacts include: Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimizing the potential of pollution; Maintain and clean storage areas routinely; Stockplling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and Different locations should be designated to stockpile each material to enhance reuse. 	To minimize potential adverse environmental inpacts arising from waste storage	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.8' Waste Management Plan	 Storage, Collection and Transportation of Waste (cont') Remove waste in timely manner; Remove waste in timely manner; Waste collectors should only collect wastes prescribed by their permits; Impacts during transportation, such as dust and odour, should be mitigated by the use of covered trucks or in enclosed containers; Impacts during transportation, such as dust and odour, should be mitigated by the use of covered trucks or in enclosed containers; Obtain relevant waste disposal permits from the appropriate authorities, in a condance with the Waste Disposal Ordinance (Cap. 345) and the Land (Miscellancous Provisions) Ordinance (Cap. 28); Waste should be disposed of at licensed waste disposal facilities/ alternative disposal ground approved by RE and DEP; and Maintain records of quantities of waste generated, recycled and disposed. 	To minimize potential adverse environmental inpacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.9/ Waste Management Plan	 Storage, Collection and Transportation of Waste (con^t) Implementation of trip ticket system with reference to DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demollition Materials, to monitor disposal of waste and to control fly-tipping at PFRFs or landfills. A recording system for the amount of waste generated, recycled and disposed (including disposal sites) should be proposed. 	To minimize potential adverse environmental inpacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010
S8.6.11 - S8.6.13/ Waste Management Plan	 Sorting of C&D Materials Sorting to be performed to recover the inert materials, reusable and recyclable materials before disposal off-site. Soccific means shall be provided by the Contractors for sorting and to provide temporary storage areas for the sorted materials. The C&D materials should at least be segregated into inert and non-inert materials, in which the inert portion ould be reused and recycled in the reelamation as far as practicable before delivery to PPRFs. While opportunities for reusing the non-inert portion should be investigated before disposal of at designated landfils 	To minimize potential adverse environmental	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010 ETWB TCW No. 33/2002 ETWB TCW No. 19/2005
	 Sediments (con't) Requirements of the Air Pollution Control (Construction Dust) Regulation, where relevant, shall be adhered to during boring, excavation, transportation and disposal of sediment. A treatment area should be confined for carrying out the cement stabilization mixing and temporary stockpile. The area should be designed to prevent leachate from entering the ground. Leadhance (WPCO). 					

Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
0	 In order to minimise the potential odour / dust emissions during boring, excavation and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges/trucks. Loading of the excavated sediment to the barge should be controlled to avoid splashing and overflowing of the sediment slury to the surrounding water. In order to minimise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities should also be provided on site. 	To determine the best handling and treatment of sediment	Contractor	All works areas with sediments concern	Construction Phase	ETWB TCW No. 19/2005
Jan V. Waste	 The exeavated sediments is expected to be loaded onto the bargs and transported to the degradet disposal options and ETWB TC(W) No. 34/2002. The exeavated sediments is expected by the MFC. The excavated sediment should be disposed of according to its determined disposal options and ETWB TC(W) No. 34/2002. Stockpling of contaminated sediments is necessary, the excavated sediment should be covered by tarpaulin and the area should be placed within earth bunds or sand bags to prevent leacher from entering the gound, nearby drains and surrounding water bolds. The stockpling of contaminated and uncontaminated materials. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). In order to mulerlying soli or groundwater. Separate and clearly defined areas should be provided for stockpling of contaminated and uncontaminated materials. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). In order to minimise the potential odour / dust emissions during boring and transportation of the sediment, the excavated sediments should be keyt ved during excavation/boring and should be properly covered when placed on barges. Loading of the seximited set the excavated sediments to the barge should be controlled to avoid splashing and overflowing of the section of the surrounding water. In order to minimise the provent keakage and should no the filled to a level that would eause overflow of materials or blace and claining odding or transportation. Interpolation, monitoring of the barge loading shall be conducted to eause should be level barge loading shall be conducted to ensure that loads areas should be provided for social minimates and an encode when the sediments are sealed in goosynthetic containents or the designated disposal sites place during devices as specified by the DEP. In order to minimise the exposure to contaminated materials, workers should be	To ensure handling of sediments are in accordance to statutory requirements	Contractor	All works areas with sediments concern	Construction Phase	ETWB TC(W) No. 34/2002 & Dunping at Sea Ordinance

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S8.6.26/ Waste Management Plan	 If chemical Wastes. If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging. Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemical waste containter indicating the corresponding chemical the acted on each chemical waste containter indicating the corresponding chemical the chemical wastes, to contractor shall use a licensed collector to transport and dispose of the chemical waste, the Waste Treatment Centre at Tsing Yi, or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. 	To ensure proper management of chemical waste	Contractor	All works sites	Construction Phase	Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes Waste Disposal (Chemical Waste) (General) Regulation
S8.6.27/ Waste Management Plan	 General Refuse General refuse should be stored in enclosed bins or compaction units separate from G&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material. 	To ensure proper management of general refuse	Contractor	All works sites	Construction Phase	Public Health and Municipal Services Ordinance (Cap. 132)
Impact on Cultural L	Heritage (Construction Phase)					
S9.64	 Dust and visual impacts Temporarily fenced off buffer zone with allowance for public access (minimum 1 m) should be provided; The open yard in front of the temple should be kept as usual for amual Tin Hau festival; Monitoring of vibration impacts should be conducted when the construction works are less than 100m from the temple. 	To prevent dust and visual impacts	Contractors	Work areas	Construction Phase	EIAO; GCHIA; AMO
S9.6.4	 Indirect vibration impact Vibration level is suggest to be controlled within a peak particle velocity (ppv) limit of 5mm's measured inside the historical buildings; Monitoring of vibration should be carried out during construction phase. Tilting and settlement monitoring should will be applied on the Cha Kwo Ling Tin Hau Temple as well. A proposal with details for the mitigation measures and monitoring of impacts on built herings shall be submitted to AMO for comments before commenten of work. 	To prevent indirect vibration impact	Contractors	Work areas	Construction Phase	Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO.
Built Heritage Mitigation Plan	 Established Alert, Alarm and Action Level for the monitoring parameters. To increase the instrumentation monitoring and reporting frequency. To propose detailed action plan or contingency plan for the Engineer's approval when AAA Level is reached or exceeded. 	To prevent vibration impacts	NE/2015/01	Tin Hau Temple	Construction Phase	Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO.

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Landscape and Visu	al Impact (Construction Phase)					
Table 10.8.1/ Landscape Mitigation Plan	CM1 - Construction area and contractor's temporary works areas to be minimised to avoid impacts on adjacent landscape.	Avoid impact on adjacent landscape areas	CEDD (via Contractor)	General	Construction planning and during construction period	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM2 - Reduction of construction period to practical minimum.	Minimise duration of impact	CEDD (via Contractor)	V/N	Construction planning	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM3 - Topsoil, where the soil material meets acceptable criteria and where practical, to be stripped and stored for re-use in the construction of the soft landscape works. The Contract Specification shall include storage and reuse of topsoil as appropriate.	To allow re-use of topsoil	CEDD (via Contractor)	General	Site clearance	As per the Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM4 - Existing trees at boundary of site and retained trees within site boundary to be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification, under which the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree protection measures will be detailed at Tree Removal Application stage).	To minimize tree loss	CEDD (via Contractor)	As per approved Tree Removal Application(s)	Site clearance and throughout construction period	ETWB TC 3/2006 and as per tree protection measures in Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM5 - Trees unavoidably affected by the works shall be transplanted where practicable. Where possible, trees should be transplanted direct to permanent locations rather than temporary holding nurseries. A detailed tree transplanting specification shall be provided in the Contract Specification and sufficient time for preparation shall be allowed in the construction programme.	To maximize preservation of existing trees	CEDD (via Contractor)	As per approved Tree Removal Application(s)	Site clearance	ETWB TC 3/2006 and as per tree protection measures in Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM6 - Advance screen planting of fast growing tree and shrub species to noise barriers and hoardings. Trees shall be capable of reaching a height >10m within 10 years.	To maximize screening of the works	CEDD (via Contractor)	At Lam Tin Interchange and edge of Road P2 landscape deck, TKO	Beginning of construction period	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM7 - Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material	To reduce visual intrusion	CEDD (via Contractor)	General	Throughout construction period	As per Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM8 - Control of night-time lighting by hooding all lights and through minimisation of night working periods.	To reduce visual intrusion	CEDD (via Contractor)	General	Throughout construction period	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM9 - Screening of works areas with hoardings with appropriate colours compatible with the surrounding area	Reduction of visual intrusion	CEDD (via Contractor)	Project site Boundary	Excretion of site hoarding	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM10 - Avoidance of excessive height and bulk of site buildings and structure	Reduction of visual intrusion and integration with environment	CEDD (via Contractor)	Built structures	Design and construction stage	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM11 - Limitation of run-off into freshwater streams, ponds and sea areas	Avoidance of contamination of water courses and water bodie	CEDD (via Contractor)	TKO reclamation, TKO tunnel portal, Cha Kwo Ling roadworks	Throughout construction period	N/A
Table 10.8.1	CM12 - Minimise area of reclamation and design the edges sensitively to tie in with adjacent coast line characte	Minimise loss of Junk Bay and integration with existing coastlin	CEDD (via Contractor)	Temporary reclamation for barging points at TKO and Lam Tin and permanent redamation for TKO Interchange slip roads and Road P2	Construction planning and reclamation stages	N/A
Landfill Gas Hazaro	d (Design and Construction Phase)					

EIA Ref. / EP Submission	n Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S11.5.9	A Safety Officer, trained in the use of gas detection equipment and landfill gas-related hazards, should be present on site throughout the groundworks phase. The Safety Officer should be provided with an intrinsically safe portable instrument, which is appropriately calibrated and able to measure the following gases in the ranges indicated below: Methane 0-100% LEL and 0100% v/v Carbon dioxide 0-100% Oxygen 0-21%	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note
S11.5.10 S11.5.25	 For staff who work in, or have responsibility for "at risk" area, such as all excavation workers, supervisors and engineers working within the Constallation. Zone, should receive appropriate training on working in areas susceptible to landfill gas. Tataded risk should be edisided and carried out. An excavation procedure or code of practice to minimize landfill gas related risk should be devised and carried out. No worker should be allowed to work alone at any time in or near to any excavation. At least one other worker should be available to assist with a ressue if needed. No worker should be allowed to work alone at any time in or near to any excavation. At least one other worker should be available to assist with a ressue if needed. No fortary exervation or ground-level confined space. "No smoking" and "No naked flame" notices should be designed for smoking. Welding, flame-cutting or other hot works should be confined to open arces at least 15m from any trench or excavation. Welding, flame-cutting or other hot works should be confined to open arces at least 15m from any trench or excavation. Welding, flame-cutting or other hot works should be confined to open arces at least 15m from any trench or excavation. Welding, flame-cutting or other hot works should be confined to open arces at least 15m from any trench or excavation. Welding, flame-cutting or other hot works should be confined to open arces at least 15m from any trench or excavation. Welding, flame-cutting or other hot works should be confined to period during which the Safty Officer (or, in the case of smuld store quite the period during which the formating the game strench as a thoy arce and all other stores. Property auticide person. The permit to work who should be treated with the expansibility for suspending the work in the event of nuncceptable of harzardous conditions which may arres should be provided and carce of an appropriately treat	Protect the workers from land fill gas hazards	Contractor	Project sites within the Sai Tso War Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hizzrd Assessment Guidance Note Labour Department's Code of Practice for Safety and Health at Work in Confined Space

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
	 Fire drills should be organized at not less than six monthly intervals. The contractor should formulate a health and safety policy, standards and instructions for site personnel to follow. All personnel who work on the site and all visitors to the site should be made avare of the possibility of ignition of gas in the vicinity of reavations. Safety notices (in Chinese and English) should be posted at prominent position around the site varning danger of the potential hazards. Service runs within the Consultation Zone should be designated as "special routes"; utilities companies should be informed of this and pre-cautionary measures should be implemented. Pre-eationary measures should be implemented. Pre-eationary measures should be implemented. Pre-eationary measures should be implemented pre-eationary measures should be implemented. Pre-eationary measures should be implemented. Pre-eationary measures should be implemented pre-eationary measures should be implemented. Pre-eationary measures should be implemented. Pre-eationary measures should be implemented pre-eationary measures should be implemented. Pre-eationary measures should be implemented pre-easionary measures should be implemented. Pre-eationary measures should be implemented be easing that appropriate monitoring pro-eationary measures and should be implemented. The eating the stransmin					
	 Periodically during ground-works construction within the 250m Consultation Zone, the works area should be monitored for methane, carbon dioxide and oxygen using appropriately calibrated portable gas detection equipment. The monitoring frequency and areas to be monitored should be set down prior to commencement of ground-works either by the Safety Officer or an approved and appropriately qualified person. 					
SIL5.26 - SIL5.31	 Routine monitoring should be carried out in all excavations, manholes, chambers, releasion of monitoring wells and any other confined spaces that may have been created. All measurements in excavations should be made with the extended monitoring tube becauded normore than 10 mm from the exposed ground surface. Monitoring should be performed properly to make sure that the area is free of landfill gas before any man enters into the arca. For excavations deeper than 1m, measurements should be carried out: at the ground surface before excavation commences; immediately before any worker enters the excavation; at the beginning of each working day for the entire period the excavation. periodically throughout the working day for the entire period the excavation. For excavations between 300mm and 1m deep, measurements should be carried out: and periodically whilst the excavation transitis open. For excavations less than 300mm and 1m deep, measurements should be carried out: directly after the excavation transitis open. For excavations less than 300mm and 1m deep, measurements should be carried out: directly after the excavation transitis open. For excavations less than 300mm and 1m deep, measurements should be carried out: directly after the excavation transitis open. For excavations less than 300mm and 1m deep, measurements should be carried out: directly after the excavation transitis open. For excavations less than 300mm and 1m deep, measurements should be carried out: directly after the excavation transitis open. The excavations less than 300mm and 1m deep. measurements should be carried out: directly after the excavation transitis open. For excavations less than 300mm and 1m deep. measurements should be carried out: directly after the excavation transite open. For excavations less than 300mm deep. monitoring may be omitted, at the discretion of the Safety Officer or other ap	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note

Submission	ı Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
-	The hazards from landfill gas during the construction stage within the Sai Tso Wan Landfill	construction stage within the Sai Tso Wan	Contraction of	Project sites within the Sai	Canadana akana	EPD's Landfill Gas Hazard Assessment
	Consultation Zone should be minimized by suitable precautionary measures recommended in Chapter 8 of the Landfill Gas Hazard Assessment Guidance Note.	Protect the workers from landfill gas hazards	COINTACTO	Consultation Zone	сопзи испол рназе	Guidance Note
Table II - Observation / Reminder / Non-compliance made during Site Audit

- Key:
- Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit
 X Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit

 - # Follow up action will be reported in next reporting month* Non-compliance of mitigation measureNon-compliance but improved by the contractor

EIA Ref	Recommended Mitigation Measures	Contract No.	Work Sites	Details of Reminder/Observation	Recorded Date	Status
Water Qualit	ty Impact					
S.3.8.7	 Establishment and use of vehicle wheel and body washing facilities at the exit points of the site. 	NE2015/01	LTI Roundabout	Although washing wheels by workers was provided, no washing wheel bay was installed in the exit of LTI to provide enough cleaning of wheels. Contractor is reminded to provide a bay with adequate design.	18 Nov 2020	>
Ecological Im	npact					
-		1	-			
Construction	Noise Impact					
Noise Mitigation Plan	Use of Temporary Noise Barriers (i.e Acoustic box, SilentUp and etc.) or Full Enclosure for PME according to the approved Noise Mitigation Plan	NE2017/02	Zone C	The Contractor is reminded to fix the gap between acoustic sheets to ensure the proper function of noise barrier.	12 Nov 2020	>
Landscape an	nd Visual Impact					
1		1	1			
Air Quality II	Impact					
S3.8.1	Watering eight times a day on active works areas, exposed areas and paved haul roads	NE2015/01	Overall Site Condition	The Contractor is reminded to sprinkle water to suppress dust emission	4 Nov 2020	^
S3.8.7	Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading area of barging point, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons' periods.	NE2015/01	Portion IVC	3-sided shield shall be provided to the grout pump to suppress dust nuisance generated by related construction activities.	25 Nov 2020	#
I	· All vehicles shall be shut down in intermittent use.	NE2015/02	Portion IX	All PME shall be turned off when not in use.	12 Nov 2020	>
S3.8.1	Watering eight times a day on active works areas, exposed areas and paved haul roads	NE2015/02	Overall Site Condition	The Contractor is reminded to sprinkle water more thoroughly.	12 Nov 2020	>
Fisheries Imp	pact					
		:	1			
Waste Manag	gement					
S8.6.4	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters.	NE2015/01	S01 Tunnel	Chemicals in S01 should be placed in a drip tray to prevet chemical leakage.	28 Oct 2020	>
S8.6.4	· Remove waste in timely manner;	NE2015/01	WVB	General Waste was accumulated near slope of S01 tunnel.	28 Oct 2020	>
S8.6.4	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters.	NE2015/01	WVB	Fuel was found leaking at the end of the fuel truck.	25 Nov 2020	#
S8.6.5	· Remove waste in timely manner;	NE2015/02	Portion VIII	The Contractor is reminded to collect general refuse at a timely manner.	12 Nov 2020	~
Landfill Gas	Hazards					

Table II - Observation / Reminder / Non-compliance made during Site Audit

Observation/reminder was made during site andit but improved/reatified by the contractor in the next site audit
 X Observation/reminder was made during site audit but not yet improved/reatified by the contractor in the next site audit
 # Follow up action will be reported in next reporting month
 # Rone-compliance of migation measures
 Non-compliance but improved by the contractor

Key:

EIA Ref	Recommended Mitigation Measures	Contract No.	Work Sites	Details of Reminder/Observation	Recorded Date	Status
Water Qualit	y Im pact					
S5.8.5	It is important that appropriate measures are implemented to control runoff and drainage and prevent high loading of SS from entering the marine environment. Proper site management is essential to minimise surface water runoff, soil provide and sewage effluents.	NE2015/02	Portion IX	Water ponding near drainage should be avoided.	17-Dec-2020	>
Ecological Im	pact					
I	1	:	:		:	1
Construction	Noise Impact	-				
Noise Mitigation Plan	Use of Temporary Noise Barriers (i.e Acoustic box, StlentUp and etc.) or Full Euclosure for PME according to the approved Noise Mitigation Plan	NE2015/01	Portion IVC	The Contractor is reminded to repair the noise barrier before the construction works in that location begins in order to ensure proper implementation of the noise mitigation plan.	9 Dec 2020	>
Noise Mitigation Plan	Use of Temporary Noise Barriers (i.e. Acoustic box, SilentUp and etc.) or Full Enclosure for PME according to the approved Noise Mitigation Plan	NE2015/01	Portion IVC	The Contractor is reminded to close the gaps between acoustic sheets to ensure proper functioning of the noise barrier.	9 Dec 2020	>
Noise Mitigation Plan	Use of Temporary Noise Barriers (i.e Acoustic box, SilentUp and etc.) or Full Enclosure for PME according to the approved Noise Mitigation Plan	NE2015/02	Portion IX	The Contractor is reminded to close the gaps between noise barriers to ensure proper implementation of approved CNMP.	10 D ∞ 2020	>
Landscape an	d Visual Impact	-				
-	-	1	:	-		;
S3.8.1	upper Enclosing the unloading process at barging point by a 3-sided screen with top theolobe hall / mixing area in Work Area A, provision of water spraying and flexible dust curtains	NE2015/01	Portion IVC	3-sided shield shall be provided to the grout pump to suppress dust nuisance generated by related construction activities.	3 Dec 2020	>
S3.8.7	 Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. 	NE2015/01	Portion IVC	The Contractor is reminded to cover the open stockpile.	9 Dec 2020	>
S3.8.1	Watering eight times a day on active works areas, exposed areas and paved haul roads	NE2015/02	General Site Condition	The Contractor is reminded to water regularly to suppress dust emission	31D∞ 2020	#
Fisheries Imp	act					
-	:			:		
Waste Manag S5.8.22	ement Aut metrams and storage areas should be provided with noets and be focated on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the	NE2015/01	Portion VII	Drip tray shall be provided to the chemical at Portion VII.	3 Dec 2020	>
S8.6.8/ Waste Management Plan	. Remove waste in timely manner,	NE2015/01	Portion III	Accumulated general refuse shall be clean up at Portion III.	3 Dec 2020	>
S8.6.8/ Waste Management Plan	. Remove waste in timely manner,	NE2015/01	Slope H	The Contractor is reminded to clean up the general refuse at Slope H	9 Dec 2020	>
S5.8.22	All nucl transs and storage areas snoutd or provided with rows and or located on scaled areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the	NE2015/01	Portion IVC	Drip tray shall be provided to the chemicals in Portion IVC.	9 Dec 2020	>
S5.8.22	All the Haffs and storage areas should be provided with noss and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the	NE2015/02	Portion IX	A drip tray should be placed under oil barrels.	17D∞ 2020	>
S8.6.8/ Waste Management Plan	. Remove waste in timely manner,	NE2015/02	Portion IX	The Contractor is reminded to remove accumulated general refuse	17 Dec 2020	>
S8.6.8/ Waste Management Plan	. Remove waste in timely manner,	NE2015/01	Tunnel S02	The Contractor is reminded to remove accumulated general refuse	30 Dec 2020	#
Landfill Gas	Hazards					
;	:	:	:	-		:

Table II - Observation / Reminder / Non-compliance made during Site Audit

- Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit
 X Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit
 # Follow up action will be reported in next reporting month
 * Non-compliance of mitigation measure
 Non-compliance but improved by the contractor Key:

EIA Ref	Recommended Mitigation Measures	Contract No.	Work Sites	Details of Reminder/Observation	Recorded Date	Status
Water Quality	y Impact					
I	-	1	:	-	-	1
Cological Im	pact					
1	-	1	1	-		
Construction	Noise Impact					
Noise Mitigation Plan	Use of Temporary Noise Barriers (i.e Acoustic box, SilentUp and etc.) or Full Enclosure for PME according to the approved Noise Mitigation Plan	NE2015/01	Portion IVC	A driller was operated without a noise barrier. The contractor is reminded to provide a cantilever noise barrier to reduce noise impact.	27-Jan-21	#
Noise Mitigation Plan	Use of Temporary Noise Barriers (i.e. Acoustic box, SilentUp and etc.) or Full Enclosure for PME according to the approved Noise Mitigation Plan	NE2015/02	Portion IVC	The Contractor is reminded to close the gap of the Silence- Up barrier around the wet-sep.	07-Jan-21	0
andscape an	d Visual I mpact					
		1	1			
Air Quality In	npact					
S3.8.7	 Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. 	NE2015/01	Portion III	Stockpiles of dusty materials should be covered by tarpaulin and watered	27-Jan-21	#
S3.8.1	Watering eight times a day on active works areas, exposed areas and paved haul roads	NE2015/02	General Site Condition	The Contractor is reminded to water regularly to suppress dust emission	31-Dec-20	>
S3.8.1	Watering eight times a day on active works areas, exposed areas and paved haul roads	NE2015/02	General Site Condition	The contractor is reminded to water frequently to suppress dust emission	14-Jan-21	>
~	. All vehicles shall be shut down in intermittent use.	NE2015/02	Portion IX	The contractor is reminded to turn off the idle PME when not in use.	28-Jan-21	>
S3.8.7	 Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. 	NE2017/02	Zone A	The Contractor is reminded to cover the stockpile that is not in use.	7-Jan-21	>
S3.8.7	 Establishment and use of vehicle wheel and body washing facilities at the exit points of the site. 	NE2017/02	Zone A	The contractor is reminded to keep the public road around the site entrance clean and free from dust.	28-Jan-21	^
Fisheries Imp	act					
	-	-	1	-		;
Waste Manag	ement					
S8.6.8/ Waste Management Plan	. Remove waste in timely manner;	NE2015/01	Portion III	The Contractor is reminded to remove the accumulated refuse at a timely refuse at a timely manner	30-Dec-20	`
S5.8.22	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters.	NE2015/01	Portion VII	A drip tray should be provided for chemicals.	27-Jan-21	#
S8.6.8/ Waste Management Plan	. Remove waste in timely manner;	NE2015/02	Portion IX	The contractor is reminded to remove refuse/ provide rubbish bin near the staircase at Portion XI.	21-Jan-21	`
andfill Gas I	Hazards					
			-			

APPENDIX J WASTE GENERATED QUANTITY Name of Department: Civil Engineering Development Department



Monthly Summary Waste Flow Table for Nov 2020

	Actu	al Quantities	of Inert C&D	Materials G	enerated Mo	nthly	Actual	Quantities of	C&D Wastes	Generated I	Monthly
Month	a.Total Quantity Generated (see Note 8)	b. Hard Rock and Large Broken Concrete	c. Reused in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill	f. Imported Fill	g. Metals (see Note 5)	h. Paper / Cardboard Packaging (see Note 5)	i. Plastics (see Note 3) (see Note 5)	j. Chemical Waste	k. Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
January	131.325	42.581	0.000	42.581	88.744	0.000	0.000	0.000	0.000	3.040	0.360
February	124.053	43.467	0.000	43.467	80.586	0.000	0.000	0.000	0.000	0.000	0.336
March	159.135	35.849	0.000	35.849	123.286	0.000	0.000	0.000	0.000	0.000	0.489
April	100.501	15.158	0.000	15.158	85.343	0.000	0.000	0.000	0.000	1.920	0.304
May	77.137	26.871	0.000	26.871	50.266	0.000	0.000	0.000	0.000	1.760	0.436
June	45.856	12.279	0.000	12.279	33.577	0.000	0.000	0.000	0.000	2.800	0.629
Sub-total	638.007	176.205	0.000	176.205	461.802	0.000	0.000	0.000	0.000	9.520	2.554
July	29.834	7.666	0.000	7.666	22.168	0.000	0.000	0.000	0.000	0.000	0.761
August	51.816	5.688	0.000	5.688	46.128	0.000	0.000	0.000	0.000	0.000	0.783
September	58.150	21.280	0.000	21.280	36.870	0.000	0.000	0.000	0.000	2.000	0.780
October	34.544	13.414	0.000	13.414	21.130	0.000	0.000	0.000	0.000	0.000	0.665
November	42.765	13.695	0.000	13.695	29.070	0.000	0.000	0.000	0.000	0.000	0.861
December											
Total											

Total inert C&D waste generated = c+d+e

Total inert C&D waste recycled = c+d

% of recycled inert C&D waste = Total C&D waste recycled / Total C&D waste generated

Name of Department: Civil Engineering Development Department



Notes: (1) The performance target are given in PS Clause 6(14)

- (2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site
- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
- (4) The Contractor shall also submit the latest forecast of the amount of C&D materials expected to be generated from the Works, together with a break down of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m3. (PS Clause 1.105(4) refers)
- (5) All recyclable materials, including metals, paper / cardboard packaging, plastics, etc. will be collected by registered collector for recycling.
- (6) Conversion factors for reporting purpose:

in-situ: rock = 2.5 tonnes/m³; soil = 2.0 tonnes/m³

- (7) excavated: rock = 2.0 tonnes/m³; soil = 1.8 tonnes/m³; broken concrete and bitumen = 2.4 tonnes/m³, soil and rock = 1.9 tonnes/m³
- (8) C&D Waste = 0.9 tonnes/m³; bentonite slurry = 2.8 tonnes/m³

Diesel density: 0.8kg/l

Numbers are rounded off to the nearest three decimal places

The "Total Quantity Generated" equals to the sum of "Reuse in the Contract", "Reuse in Other Projects" and "Disposed as Public Fill"

		Actual Qua	ntities of Inert C&I	O Materials Generat	ed Monthly			Actual Quantities	s of C&D Wastes Go	enerated Monthly	
Month	Total Quantity Generated	Hard Rock and Large Borken Concrete	Reused in the Contract	Reused in other Projects	Disposal as Public Fill	Imported Fill	Metals	Paper / Cardboard Packaging	Plastics (See note 3)	Chemical Waste	Other, e.g. general refuse
	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000m ³]
Jan	30.64412	0.00000	0.00000	0.00000	24.22533	6.41880	5.41000	0.00000	0.00000	0.00000	0.04746
Feb	39.14024	0.00000	0.00000	0.00000	32.17651	6.96373	370.20000	0.00000	0.00000	0.00000	0.07116
Mar	27.14772	0.00000	0.00000	0.00000	15.34531	11.80241	29.85000	0.00000	0.00000	0.00000	0.06906
Apr	5.83584	0.00000	0.00000	0.00000	3.63701	2.19883	102.92000	0.00000	0.00000	0.00000	0.05324
May	8.55271	0.00000	0.00000	0.00000	5.15006	3.40265	0.00000	0.00000	0.00000	0.00000	0.07372
June	10.30986	0.00000	0.00000	0.00000	6.30591	4.00395	52.86200	0.00000	0.00000	0.16300	0.06674
SUB- TOTAL	121.63048	0.00000	0.00000	0.00000	86.84011	34.79037	561.24200	0.00000	0.00000	0.16300	0.38138
Jul	14.08386	0.00000	0.00000	0.00000	12.28541	1.79845	449.89000	0.00000	0.00000	0.00000	0.14692
Aug	13.43334	0.00000	0.00000	0.00000	13.40894	0.02441	112.72300	0.00000	0.00000	0.00000	0.16514
Sep	14.04413	0.00000	0.00000	0.00000	14.03449	0.00964	34.24000	0.00000	0.00000	0.00000	0.04288
Oct	12.05179	0.00000	0.00000	0.00000	11.88895	0.16285	0.00000	0.00000	0.00000	0.00000	0.05810
Nov	16.18900	0.00000	0.00000	0.0000	16.15917	0.02983	0.00000	0.00000	0.00000	0.00000	0.09346
Dec											
TOTAL	191.43260	0.00000	0.00000	0.00000	154.61706	36.81554	1158.09500	0.00000	0.00000	0.16300	0.88788

Monthly Summary Waste Flow Table for 2020 Year

Note: Conversion to 1000m³ for general refuse is weight in 1000kg multiply by 0.002

Conversion to 1000m³ for Inert C&D is weight in 1000kg multiply by 0.0005

Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material

Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material



Monthly Summary of Waste Flow Table for 2020

Name of Person completing the Record: Joshua Tam___

	Actual Qu	uantities of Ine	ert C&D Mate	rials Generate	ed Monthly	Actual Qua	Actual Quantities of Non-inert C&D Wastes Generated Monthly					
Month	Total Quantity	Broken Concrete	Reused in the Contract	Reused in other	Disposed as Public Fill	Metals	Paper/ cardboard	Plastics	Chemical Waste	Others, e.g. general		
	Generated	(see Note 1)		Projects			packaging	(see Note 2)		refuse		
	(in '000m ³)	(in '000 Kg)	(in '000 Kg)	(in '000 Kg)	(in '000 Kg)	(in '000m ³)						
Jan	0.4469	0	0	0	0.4469	0	0	0	0	0.00338		
Feb	0.5532	0	0	0	0.5532	0	0	0	0	0.0123		
Mar	0.6280	0	0	0	0.6280	0	0	0	0	0.00218		
Apr	0.3370	0	0	0	0.3370	0	0	0	0	0.00294		
May	0.3530	0	0	0	0.3530	0	0	0	0	0.00043		
Jun	0.1670	0	0	0	0.1670	0	0	0	0	0.00199		
Sub-total	2.4851	0	0	0	2.4851	0	0	0	0	0.0198		
Jul	0.5560	0	0	0	0.5560	0	0	0	0	0.00262		
Aug	0.3621	0	0	0	0.3621	0	0	0	0	0.00628		
Sep	0.1780	0	0	0	0.1780	0	0	0	0	0.00218		
Oct	0.3472	0	0	0	0.3472	0	0	0	0	0.00653		
Nov	0.8082	0	0	0	0.8082	0	0	0	0	0.00965		
Dec	0.0000	0	0	0	0.0000	0	0	0	0	0		
Total	4.7366	0	0	0	4.7366	0	0	0	0	0.0471		

Notes:

(1) Broken concrete for recycling into aggregates.

(2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

(3) Use the conversion factor: 1 full load of 24t / 30t dumping truck being equivalent to 6.5m3 / 8.125 m3 by volume.



Name of Department: Civil Engineering & Development Department

Contract No.: NE/2017/06

		Actual Quantiti	es of Inert C&I	O Materials Ger	erated Monthly	у	Actual Quantities of C&D Wastes Generated Monthly					
Month	Total Quantity Generated	Hard Rock & Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Chemical Waste	Others, e.g. General Refuse	
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)	
Jan	0	0	0	0	0	0	0	0	0	0	0	
Feb	0	0	0	0	0	0	0	0	0	0	0	
Mar	0	0	0	0	0	0	0	0	0	0	0	
Apr	0	0	0	0	0	0	0	0	0	0	0	
May	0	0	0	0	0	0	0	0	0	0	0	
Jun	0	0	0	0	0	0	0	0	0	0	0	
Sub-total	0	0	0	0	0	0	0	0	0	0	0	
Jul	0	0	0	0	0	0	0	0	0	0	0	
Aug	0	0	0	0	0	0	0	0	0	0	0	
Sep	0	0	0	0	0	0	0	0	0	0	0.0015	
Oct	0	0	0	0	0	0	0	0	0	0	0.0045	
Nov	0	0	0	0	0	0	0	0	0	0	0	
Dec												
Total	0	0	0	0	0	0	0	0	0	0	0.006	

Monthly Summary Waste Flow Table For 2020

Notes: (1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(2) Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material.

(3) Each dump truck carries $6m^3$ of general refuse.

(4) The commencement date of the Contract is 9 November 2018. The current reporting period is from 1 November 2020 to 30 November 2020.



Monthly Summary Waste Flow Table for 2020

Name of Department: Civil Engineering and Development Department

Contract No.: NE/2017/01

	Actu	al Quantities	of Inert C&D) Materials G	enerated Mor	nthly	Actual	Quantities of	f C&D Wastes	Generated M	lonthly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0.0163	0.0000	0.0000	0.0000	0.0163	0.0000	0.0000	0.0000	0.0000	0.0000	0.0033
Feb	0.2601	0.0000	0.0000	0.0000	0.2601	0.0000	11.2600	0.0000	0.0000	0.0000	0.0017
Mar	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0044
Apr	0.0105	0.0000	0.0000	0.0000	0.0105	0.0000	0.0000	0.0000	0.0224	0.0000	0.0033
May	0.1669	0.0000	0.0000	0.0000	0.1669	0.0000	4.2000	0.0000	0.0000	0.0000	0.0062
Jun	0.0099	0.0000	0.0000	0.0000	0.0099	0.0000	0.0000	0.0000	0.0000	0.0000	0.0118
Sub-total	0.4637	0.0000	0.0000	0.0000	0.4637	0.0000	15.4600	0.0000	0.0224	0.0000	0.0305
Jul	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.0000	0.0000	0.0000	0.0114
Aug	0.0098	0.0000	0.0000	0.0000	0.0098	0.0000	22.2300	0.4250	0.0000	0.0000	0.0105
Sep	0.0493	0.0000	0.0000	0.0000	0.0493	0.0000	0.0000	0.0000	0.0000	0.0000	0.0101
Oct	0.0213	0.0000	0.0000	0.0000	0.0213	0.0000	0.0000	0.0000	0.0950	0.0000	0.0101
Nov	0.0483	0.0000	0.0000	0.0000	0.0483	0.0000	0.0000	0.0000	0.0000	0.0000	0.0081
Dec											
Total	0.5924	0.0000	0.0000	0.0000	0.5924	0.0000	37.6900	0.4250	0.1174	0.0000	0.0807

Notes: 1. Assume the density of soil fill is 2 ton/m^3 .

2. Assume the density of rock and broken concrete is 2.5 ton/m^3 .

3. Assume the density of mixed rock and soil is 1.9 ton/m^3 .

4. Assume the density of slurry and bentonite is 2.8 ton/m^3 .

5. The slurry and bentonite are disposed at Tseung Kwan O Area 137 Fill Bank.

6. Assume the density of C&D waste is 0.9 ton/m^3 .

7. The non-inert C&D wastes are disposed at NENT.

Name of Department: Civil Engineering Development Department



Monthly Summary Waste Flow Table for Nov 2020

	Act	ual Quantities	s of Inert C&D	Materials Ge	enerated Mont	hly	Actual	Quantities of	C&D Wastes	Generated M	onthly
Month	a.Total Quantity Generated (see Note 8)	b. Hard Rock and Large Broken Concrete	c. Reused in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill	f. Imported Fill	g. Metals (see Note 5)	h. Paper / Cardboard Packaging (see Note 5)	i. Plastics (see Note 3) (see Note 5)	j. Chemical Waste	k. Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
January	131.325	42.581	0.000	42.581	88.744	0.000	0.000	0.000	0.000	3.040	0.360
February	124.053	43.467	0.000	43.467	80.586	0.000	0.000	0.000	0.000	0.000	0.336
March	159.135	35.849	0.000	35.849	123.286	0.000	0.000	0.000	0.000	0.000	0.489
April	100.501	15.158	0.000	15.158	85.343	0.000	0.000	0.000	0.000	1.920	0.304
May	77.137	26.871	0.000	26.871	50.266	0.000	0.000	0.000	0.000	1.760	0.436
June	45.856	12.279	0.000	12.279	33.577	0.000	0.000	0.000	0.000	2.800	0.629
Sub-total	638.007	176.205	0.000	176.205	461.802	0.000	0.000	0.000	0.000	9.520	2.554
July	29.834	7.666	0.000	7.666	22.168	0.000	0.000	0.000	0.000	0.000	0.761
August	51.816	5.688	0.000	5.688	46.128	0.000	0.000	0.000	0.000	0.000	0.783
September	58.150	21.280	0.000	21.280	36.870	0.000	0.000	0.000	0.000	2.000	0.780
October	34.544	13.414	0.000	13.414	21.130	0.000	0.000	0.000	0.000	0.000	0.665
November	42.765	13.695	0.000	13.695	29.070	0.000	0.000	0.000	0.000	0.000	0.861
December	18.931	8.829	0.000	8.829	10.102	0.000	0.000	0.000	0.000	0.000	0.335
Total	874.047	246.777	0.000	246.777	627.270	0.000	0.000	0.000	0.000	11.520	6.739

Total inert C&D waste generated = c+d+e

Total inert C&D waste recycled = c+d

% of recycled inert C&D waste = Total C&D waste recycled / Total C&D waste generated

Name of Department: Civil Engineering Development Department



Notes: (1) The performance target are given in PS Clause 6(14)

- (2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site
- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
- (4) The Contractor shall also submit the latest forecast of the amount of C&D materials expected to be generated from the Works, together with a break down of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m3. (PS Clause 1.105(4) refers)
- (5) All recyclable materials, including metals, paper / cardboard packaging, plastics, etc. will be collected by registered collector for recycling.
- (6) Conversion factors for reporting purpose:
 - in-situ: rock = 2.5 tonnes/m³; soil = 2.0 tonnes/m³
- (7) excavated: rock = 2.0 tonnes/m³; soil = 1.8 tonnes/m³; broken concrete and bitumen = 2.4 tonnes/m³, soil and rock = 1.9 tonnes/m³
- (8) C&D Waste = 0.9 tonnes/m³; bentonite slurry = 2.8 tonnes/m³

Diesel density: 0.8kg/l

- Numbers are rounded off to the nearest three decimal places
- The "Total Quantity Generated" equals to the sum of "Reuse in the Contract", "Reuse in Other Projects" and "Disposed as Public Fill"

		Actual Qua	antities of Inert C&I) Materials Generat	ed Monthly						
Month	Total Quantity Generated	Hard Rock and Large Borken Concrete	Reused in the Contract	Reused in other Projects	Disposal as Public Fill	Imported Fill	Metals	Paper / Cardboard Packaging	Plastics (See note 3)	Chemical Waste	Other, e.g. general refuse
	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000m ³]
Jan	30.64412	0.00000	0.00000	0.00000	24.22533	6.41880	5.41000	0.00000	0.00000	0.00000	0.04746
Feb	39.14024	0.00000	0.00000	0.00000	32.17651	6.96373	370.20000	0.00000	0.00000	0.00000	0.07116
Mar	27.14772	0.00000	0.00000	0.00000	15.34531	11.80241	29.85000	0.00000	0.00000	0.00000	0.06906
Apr	5.83584	0.00000	0.00000	0.00000	3.63701	2.19883	102.92000	0.00000	0.00000	0.00000	0.05324
May	8.55271	0.00000	0.00000	0.00000	5.15006	3.40265	0.00000	0.00000	0.00000	0.00000	0.07372
June	10.30986	0.00000	0.00000	0.00000	6.30591	4.00395	52.86200	0.00000	0.00000	0.16300	0.06674
SUB- TOTAL	121.63048	0.00000	0.00000	0.00000	86.84011	34.79037	561.24200	0.00000	0.00000	0.16300	0.38138
Jul	14.08386	0.00000	0.00000	0.00000	12.28541	1.79845	449.89000	0.00000	0.00000	0.00000	0.14692
Aug	13.43334	0.00000	0.00000	0.00000	13.40894	0.02441	112.72300	0.00000	0.00000	0.00000	0.16514
Sep	14.04413	0.00000	0.00000	0.00000	14.03449	0.00964	34.24000	0.00000	0.00000	0.00000	0.04288
Oct	12.05179	0.00000	0.00000	0.00000	11.88895	0.16285	0.00000	0.00000	0.00000	0.00000	0.05810
Nov	16.18900	0.00000	0.00000	0.00000	16.15917	0.02983	53.08000	0.00000	0.00000	0.00000	0.09346
Dec	9.78793	0.00000	0.00000	0.4366	9.35136	0.00000	0.00000	0.00000	0.00000	0.00000	0.07650
TOTAL	201.22052	0.00000	0.00000	0.43657	163.96841	36.81554	1211.17500	0.00000	0.00000	0.16300	0.96438

Monthly Summary Waste Flow Table for 2020 Year

Note: Conversion to 1000m³ for general refuse is weight in 1000kg multiply by 0.002

Conversion to 1000m³ for Inert C&D is weight in 1000kg multiply by 0.0005

Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material

Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material



Monthly Summary of Waste Flow Table for 2020

Name of Person completing the Record: Joshua Tam___

	Actual Qu	uantities of Ine	ert C&D Mater	rials Generate	ed Monthly	Actual Quantities of Non-inert C&D Wastes Generated Monthly						
Month	Total Quantity	Broken Concrete	Reused in the Contract	Reused in other	Disposed as Public Fill	Metals	Paper/ cardboard	Plastics	Chemical Waste	Others, e.g. general		
	Generated	(see Note 1)		Projects			packaging	(see Note 2)		refuse		
	(in '000m ³)	(in '000 Kg)	(in '000 Kg)	(in '000 Kg)	(in '000 Kg)	(in '000m ³)						
Jan	0.4469	0	0	0	0.4469	0	0	0	0	0.00338		
Feb	0.5532	0	0	0	0.5532	0	0	0	0	0.0123		
Mar	0.6280	0	0	0	0.6280	0	0	0	0	0.00218		
Apr	0.3370	0	0	0	0.3370	0	0	0	0	0.00294		
May	0.3530	0	0	0	0.3530	0	0	0	0	0.00043		
Jun	0.1670	0	0	0	0.1670	0	0	0	0	0.00199		
Sub-total	2.4851	0	0	0	2.4851	0	0	0	0	0.0198		
Jul	0.5560	0	0	0	0.5560	0	0	0	0	0.00262		
Aug	0.3621	0	0	0	0.3621	0	0	0	0	0.00628		
Sep	0.1780	0	0	0	0.1780	0	0	0	0	0.00218		
Oct	0.3472	0	0	0	0.3472	0	0	0	0	0.00653		
Nov	0.8082	0	0	0	0.8082	0	0	0	0	0.00965		
Dec	0.3013	0	0	0	0.3013	0	0	0	0	0.00501		
Total	5.0379	0	0	0	5.0379	0	0	0	0	0.0521		

Notes:

(1) Broken concrete for recycling into aggregates.

(2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

(3) Use the conversion factor: 1 full load of 24t / 30t dumping truck being equivalent to 6.5m3 / 8.125 m3 by volume.



Name of Department: Civil Engineering & Development Department

Contract No.: NE/2017/06

		Actual Quantiti	es of Inert C&I) Materials Gen	erated Monthly	у	Actu	ual Quantities o	f C&D Wastes	Generated Mor	athly
Month	Total Quantity Generated	Hard Rock & Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Chemical Waste	Others, e.g. General Refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0	0	0	0
Sub-total	0	0	0	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0	0	0	0.0015
Oct	0	0	0	0	0	0	0	0	0	0	0.0045
Nov	0	0	0	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0.006

Monthly Summary Waste Flow Table For 2020

Notes: (1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(2) Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material.

(3) Each dump truck carries $6m^3$ of general refuse.

(4) The commencement date of the Contract is 9 November 2018. The current reporting period is from 1 December 2020 to 31 December 2020.



Name of Department: Civil Engineering & Development Department

Contract No.: NE/2017/06

		Actual Quantiti	es of Inert C&I) Materials Gen	erated Monthly	у	Actu	ual Quantities o	f C&D Wastes	Generated Mor	athly
Month	Total Quantity Generated	Hard Rock & Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Chemical Waste	Others, e.g. General Refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0	0	0	0
Sub-total	0	0	0	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0	0	0	0.0015
Oct	0	0	0	0	0	0	0	0	0	0	0.0045
Nov	0	0	0	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0.006

Monthly Summary Waste Flow Table For 2020

Notes: (1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(2) Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material.

(3) Each dump truck carries $6m^3$ of general refuse.

(4) The commencement date of the Contract is 9 November 2018. The current reporting period is from 1 December 2020 to 31 December 2020.

Name of Department: Civil Engineering Development Department



Monthly Summary Waste Flow Table for Jan 2021

	Actu	al Quantities	of Inert C&D) Materials G	enerated Mo	nthly	Actual	Quantities of	C&D Wastes	Generated	Monthly
Month	a.Total Quantity Generated (see Note 8)	b. Hard Rock and Large Broken Concrete	c. Reused in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill	f. Imported Fill	g. Metals (see Note 5)	h. Paper / Cardboard Packaging (see Note 5)	i. Plastics (see Note 3) (see Note 5)	j. Chemical Waste	k. Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
January	11.091	6.430	0.000	6.430	4.661	0.000	0.000	0.000	0.000	0.000	0.239
February											
March											
April											
May											
June											
Sub-total	11.091	6.430	0.000	6.430	4.661	0.000	0.000	0.000	0.000	0.000	0.239
July											
August											
September											
October											
November											
December											
Total	11.091	6.430	0.000	6.430	4.661	0.000	0.000	0.000	0.000	0.000	0.239

Total inert C&D waste generated = c+d+e

Total inert C&D waste recycled = c+d

% of recycled inert C&D waste = Total C&D waste recycled / Total C&D waste generated

Name of Department: Civil Engineering Development Department



Notes: (1) The performance target are given in PS Clause 6(14)

- (2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site
- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
- (4) The Contractor shall also submit the latest forecast of the amount of C&D materials expected to be generated from the Works, together with a break down of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m3. (PS Clause 1.105(4) refers)
- (5) All recyclable materials, including metals, paper / cardboard packaging, plastics, etc. will be collected by registered collector for recycling.
- (6) Conversion factors for reporting purpose:

in-situ: rock = 2.5 tonnes/m³; soil = 2.0 tonnes/m³

- (7) excavated: rock = 2.0 tonnes/m³; soil = 1.8 tonnes/m³; broken concrete and bitumen = 2.4 tonnes/m³, soil and rock = 1.9 tonnes/m³
- (8) C&D Waste = 0.9 tonnes/m³; bentonite slurry = 2.8 tonnes/m³

Diesel density: 0.8kg/l

Numbers are rounded off to the nearest three decimal places

The "Total Quantity Generated" equals to the sum of "Reuse in the Contract", "Reuse in Other Projects" and "Disposed as Public Fill"

Monthly Summary Waste Flow Table for 2021 Year

		Actual Quantities of Inert C&D Materials Generated Monthly Total Quantity Hard Rock and Reused in the Reused in other Disposal as Public						Actual Quantities	s of C&D Wastes Ge	enerated Monthly	
Month	Total Quantity Generated	Hard Rock and Large Borken Concrete	Reused in the Contract	Reused in other Projects	Disposal as Public Fill	Imported Fill	Metals	Paper / Cardboard Packaging	Plastics (See note 3)	Chemical Waste	Other, e.g. general refuse
	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000m ³]
Jan	2.66301	0.00000	0.00000	0.00000	2.66301	0.00000	0.00000	0.00000	0.00000	0.00000	0.11320
Feb	0.00000										
Mar	0.00000										
Apr	0.00000										
May	0.00000										
June	0.00000										
SUB- TOTAL	2.66301	0.00000	0.00000	0.00000	2.66301	0.00000	0.00000	0.00000	0.00000	0.00000	0.11320
Jul	0.00000										
Aug	0.00000										
Sep	0.00000										
Oct	0.00000										
Nov	0.00000										
Dec	0.00000										
TOTAL	2.66301	0.00000	0.00000	0.00000	2.66301	0.00000	0.00000	0.00000	0.00000	0.00000	0.11320

Note: Conversion to 1000m³ for general refuse is weight in 1000kg multiply by 0.002

Conversion to 1000m³ for Inert C&D is weight in 1000kg multiply by 0.0005

Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material

Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material



Monthly Summary of Waste Flow Table for 2020

Name of Person completing the Record: Joshua Tam___

	Actual Qu	uantities of Ine	ert C&D Mate	rials Generate	ed Monthly	Actual Qua	ntities of Non-	-inert C&D Wa	astes Generat	ted Monthly
Month	Total Quantity	Broken Concrete	Reused in the Contract	Reused in other	Disposed as Public Fill	Metals	Paper/ cardboard	Plastics	Chemical Waste	Others, e.g. general
	Generated	(see Note 1)		Projects			packaging	(see Note 2)		refuse
	(in '000m ³)	(in '000 Kg)	(in '000 Kg)	(in '000 Kg)	(in '000 Kg)	(in '000m ³)				
Jan	0.5830	0	0	0	0.5830	0	0	0	0	0.0032
Feb	0.0000	0	0	0	0.0000	0	0	0	0	0
Mar	0.0000	0	0	0	0.0000	0	0	0	0	0
Apr	0.0000	0	0	0	0.0000	0	0	0	0	0
May	0.0000	0	0	0	0.0000	0	0	0	0	0
Jun	0.0000	0	0	0	0.0000	0	0	0	0	0
Sub-total	0.5830	0	0	0	0.5830	0	0	0	0	0.0032
Jul	0.0000	0	0	0	0.0000	0	0	0	0	0
Aug	0.0000	0	0	0	0.0000	0	0	0	0	0
Sep	0.0000	0	0	0	0.0000	0	0	0	0	0
Oct	0.0000	0	0	0	0.0000	0	0	0	0	0
Nov	0.0000	0	0	0	0.0000	0	0	0	0	0
Dec	0.0000	0	0	0	0.0000	0	0	0	0	0
Total	0.5830	0	0	0	0.5830	0	0	0	0	0.0032

Notes:

(1) Broken concrete for recycling into aggregates.

(2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

(3) Use the conversion factor: 1 full load of 24t / 30t dumping truck being equivalent to 6.5m3 / 8.125 m3 by volume.



Name of Department: Civil Engineering & Development Department

Contract No.: NE/2017/06

		Actual Quantiti	es of Inert C&I	O Materials Ger	erated Monthl	у	Actu	ual Quantities o	f C&D Wastes	Generated Mor	nthly
Month	Total Quantity Generated	Hard Rock & Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Chemical Waste	Others, e.g. General Refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0	0	0	0	0	0	0	0	0	0	0.003
Feb											
Mar											
Apr											
May											
Jun											
Sub-total	0	0	0	0	0	0	0	0	0	0	0.003
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total											

Monthly Summary Waste Flow Table For 2021

Notes: (1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(2) Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material.

(3) Each dump truck carries $6m^3$ of general refuse.

(4) The commencement date of the Contract is 9 November 2018. The current reporting period is from 1 January 2021 to 31 January 2021.



Monthly Summary Waste Flow Table for 2021

Name of Department: Civil Engineering and Development Department

Contract No.: NE/2017/01

	Actu	al Quantities	of Inert C&D) Materials G	enerated Mor	nthly	Actual	Quantities of	f C&D Wastes	Generated M	lonthly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0.0174	0.0000	0.0000	0.0000	0.0174	0.0000	9.0500	0.0000	0.0000	0.0000	0.0107
Feb											
Mar											
Apr											
May											
Jun											
Sub-total	0.0174	0.0000	0.0000	0.0000	0.0174	0.0000	9.0500	0.0000	0.0000	0.0000	0.0107
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	0.0174	0.0000	0.0000	0.0000	0.0174	0.0000	9.0500	0.0000	0.0000	0.0000	0.0107

Notes: 1. Assume the density of soil fill is 2 ton/m^3 .

2. Assume the density of rock and broken concrete is 2.5 ton/m^3 .

3. Assume the density of mixed rock and soil is 1.9 ton/m^3 .

4. Assume the density of slurry and bentonite is 2.8 ton/m^3 .

5. The slurry and bentonite are disposed at Tseung Kwan O Area 137 Fill Bank.

6. Assume the density of C&D waste is 0.9 ton/m^3 .

7. The non-inert C&D wastes are disposed at NENT.

APPENDIX K SUMMARY OF EXCEEDANCE

Agreement No. CE 59/2015 (EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel – Design and Construction Appendix K-1 – Summary of Exceedance

Reporting Period: November 2020 – January 2021

(A) Exceedance Report for Air Quality

(NIL in the reporting quarter)

(B) Exceedance Report for Construction Noise

Action Level for Construction Noise

Twenty-Nine (29) Action Level exceedances were recorded due to the documented complaints received from monitoring station in the reporting quarter. Please refer to the complaint log in Appendix L.

Limit Level for Construction Noise

(NIL in the reporting quarter)

Non-Compliance for Construction Noise

One (1) non-compliance was recorded in the reporting quarter. The details shall be referred to CIR-N126.

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Agreement No. CE 59/2015 (EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel – Design and Construction Appendix K-1 – Summary of Exceedance

(C) Exceedance Report for Water Quality

<u>Groundwater Quality</u> Since October 2019, groundwater monitoring had been suspended.

Marine water Quality

Ninety-three (93) Action Level exceedances and three-hundred and nineteen (319) Limit Level Exceedances in Marine Water Quality were recorded in the reporting quarter. (Please refer to Appendix K-2.)

(D) Exceedance Report for Ecology

(NIL in the reporting quarter)

(E) Exceedance Report for Cultural Heritage

(NIL in the reporting quarter)

(F) Exceedance Report for Landfill Gas

(NIL in the reporting quarter)

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

<u>02 November 2020</u>

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	65.0	M1	12:37	6.2	7.4	78.0	84.5	<u>11.1</u>
Mid-Ebb	C2	surface	65.0	M2	12:27	6.2	7.4	78.0	84.5	<u>8.9</u>
Mid-Ebb	C2	surface	65.0	M4	12:22	6.2	7.4	78.0	84.5	6.6
Mid-Ebb	C2	surface	65.0	M5	13:12	6.2	7.4	78.0	84.5	6.6
Mid-Ebb	C2	bottom	7.1	M1	12:37	6.9	7.9	8.5	9.2	<u>8.9</u>
Mid-Ebb	C2	bottom	7.1	M3	12:55	6.9	7.9	8.5	9.2	<u>8.5</u>
Mid-Ebb	C2	bottom	7.1	M5	13:12	6.9	7.9	8.5	9.2	<u>9.6</u>
Mid-Flood	C1	surface	4.5	M2	8:19	6.2	7.4	5.4	5.9	<u>8.7</u>
Mid-Flood	C1	surface	4.5	M3	8:43	6.2	7.4	5.4	5.9	<u>7.8</u>
Mid-Flood	C1	surface	4.5	M4	12:22	6.2	7.4	5.4	5.9	<u>6.6</u>
Mid-Flood	C1	surface	4.5	M5	8:58	6.2	7.4	5.4	5.9	<u>6.0</u>
Mid-Flood	C1	bottom	6.2	M1	8:28	6.9	7.9	7.4	8.0	<u>11.1</u>
Mid-Flood	C1	bottom	6.2	M2	8:19	6.9	7.9	7.4	8.0	7.8
Mid-Flood	C1	bottom	6.2	M3	8:43	6.9	7.9	7.4	8.0	7.9
Mid-Flood	C1	bottom	6.2	M5	8:58	6.9	7.9	7.4	8.0	<u>15.1</u>

Note: **Bold Italic** means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:02 November 2020Part A – Exceedance Summary TablesTable II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-Ebb	C2	2.1	M1	12:37	2.5	2.7	<u>3.4</u>
Bottom	19.3	22.2	Mid-Ebb	C2	2.1	M2	12:27	2.5	n.a.	2.7
Bottom	19.3	22.2	Mid-Ebb	C2	2.1	M3	12:55	2.5	2.7	<u>3.0</u>
Bottom	19.3	22.2	Mid-Ebb	C2	2.1	M4	12:22	2.5	2.7	<u>4.0</u>

Note: **Bold Italic** means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

<u>04 November 2020</u>

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	4.7	M1	13:27	6.2	7.4	5.6	6.1	6.1
Mid-Ebb	C2	surface	4.7	M2	13:16	6.2	7.4	5.6	6.1	<u>7.2</u>
Mid-Ebb	C2	surface	4.7	M4	13:11	6.2	7.4	5.6	6.1	<u>7.4</u>
Mid-Ebb	C2	surface	4.7	M5	14:01	6.2	7.4	5.6	6.1	<u>6.5</u>
Mid-Ebb	C2	bottom	5.3	M1	13:27	6.9	7.9	6.4	6.9	<u>7.3</u>
Mid-Flood	C1	surface	9.2	M4	13:11	6.2	7.4	11.0	12.0	7.4
Mid-Flood	C1	surface	9.2	M5	8:58	6.2	7.4	11.0	12.0	<u>9.4</u>
Mid-Flood	C1	bottom	4.1	M1	8:28	6.9	7.9	4.9	5.3	<u>8.0</u>
Mid-Flood	C1	bottom	4.1	M2	8:19	6.9	7.9	4.9	5.3	<u>6.0</u>
Mid-Flood	C1	bottom	4.1	M3	8:43	6.9	7.9	4.9	5.3	<u>6.9</u>
Mid-Flood	C1	bottom	4.1	M4	13:11	6.9	7.9	4.9	5.3	<u>5.9</u>
Mid-Flood	C1	bottom	4.1	M5	8:58	6.9	7.9	4.9	5.3	5.1

Note: **Bold Italic** means Action Level exceedance

Date of Water Quality Monitoring:

<u>06 November 2020</u>

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	9.5	M3	15:46	6.2	7.4	11.3	12.3	<u>9.6</u>
Mid-Ebb	C2	bottom	7.9	M2	15:01	6.9	7.9	9.4	10.2	<u>8.8</u>
Mid-Ebb	C2	bottom	7.9	M3	15:46	6.9	7.9	9.4	10.2	<u>28.0</u>
Mid-Flood	C1	surface	4.0	M1	9:46	6.2	7.4	4.7	5.1	<u>7.8</u>
Mid-Flood	C1	surface	4.0	M2	9:34	6.2	7.4	4.7	5.1	<u>9.2</u>
Mid-Flood	C1	surface	4.0	M5	10:36	6.2	7.4	4.7	5.1	<u>15.2</u>
Mid-Flood	C1	bottom	4.1	M1	9:46	6.9	7.9	4.9	5.3	<u>6.5</u>
Mid-Flood	C1	bottom	4.1	M2	9:34	6.9	7.9	4.9	5.3	<u>11.6</u>
Mid-Flood	C1	bottom	4.1	M4	14:55	6.9	7.9	4.9	5.3	<u>6.2</u>
Mid-Flood	C1	bottom	4.1	M5	10:36	6.9	7.9	4.9	5.3	<u>28.3</u>

Note: **Bold Italic** means Action Level exceedance

Contract No. CE 59/2015 (EP) Environmental Team for Tseung Kwan O – Lam Tin Tunnel Design and Construction - Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:06 November 2020Part A – Exceedance Summary TablesTable II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-Ebb	C2	1.7	M1	15:16	2.0	2.2	<u>3.4</u>
Bottom	19.3	22.2	Mid-Ebb	C2	1.7	M2	15:01	2.0	n.a.	3.1
Bottom	19.3	22.2	Mid-Ebb	C2	1.7	M3	15:46	2.0	2.2	2.1
Bottom	19.3	22.2	Mid-Ebb	C2	1.7	M5	16:25	2.0	2.2	<u>2.6</u>
Intake	N/A	N/A	Mid-Ebb	C2	1.7	M6	16:07	2.0	2.2	<u>3.0</u>
Bottom	19.3	22.2	Mid-flood	C1	1.5	M1	9:46	1.9	2.0	<u>4.1</u>
Bottom	19.3	22.2	Mid-flood	C1	1.5	M2	9:34	1.9	2.0	<u>2.8</u>
Bottom	19.3	22.2	Mid-flood	C1	1.5	M3	10:10	1.9	2.0	<u>2.2</u>
Bottom	19.3	22.2	Mid-flood	C1	1.5	M5	10:36	1.9	2.0	<u>2.5</u>
Intake	N/A	N/A	Mid-flood	C1	1.5	M6	10:26	1.9	2.0	3.3

Note: **Bold Italic** means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

09 November 2020

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	4.3	M3	9:12	6.2	7.4	5.1	5.5	<u>5.7</u>
Mid-Ebb	C2	surface	4.3	M4	8:36	6.2	7.4	5.1	5.5	<u>7.3</u>
Mid-Ebb	C2	bottom	4.1	M1	8:53	6.9	7.9	4.9	5.3	<u>6.7</u>
Mid-Ebb	C2	bottom	4.1	M2	8:42	6.9	7.9	4.9	5.3	<u>10.9</u>
Mid-Ebb	C2	bottom	4.1	M3	9:12	6.9	7.9	4.9	5.3	<u>9.1</u>
Mid-Ebb	C2	bottom	4.1	M4	8:36	6.9	7.9	4.9	5.3	<u>8.2</u>

Note: **Bold Italic** means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:09 November 2020Part A – Exceedance Summary TablesTable II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-Ebb	C2	1.1	M1	8:53	1.3	1.4	<u>2.1</u>

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

<u>11 November 2020</u>

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	10.3	M2	14:37	6.2	7.4	12.4	13.4	<u>8.1</u>
Mid-Ebb	C2	surface	10.3	M3	15:16	6.2	7.4	12.4	13.4	<u>8.0</u>
Mid-Ebb	C2	surface	10.3	M4	14:32	6.2	7.4	12.4	13.4	<u>19.3</u>
Mid-Ebb	C2	surface	10.3	M5	15:54	6.2	7.4	12.4	13.4	<u>30.9</u>
Mid-Ebb	C2	bottom	8.7	M1	14:51	6.9	7.9	10.4	11.2	7.0
Mid-Ebb	C2	bottom	8.7	M2	14:37	6.9	7.9	10.4	11.2	<u>8.0</u>
Mid-Ebb	C2	bottom	8.7	M3	15:16	6.9	7.9	10.4	11.2	7.6
Mid-Ebb	C2	bottom	8.7	M5	15:54	6.9	7.9	10.4	11.2	7.8
Mid-Flood	C1	surface	11.4	M1	8:29	6.2	7.4	13.7	14.8	<u>7.9</u>
Mid-Flood	C1	surface	11.4	M4	14:32	6.2	7.4	13.7	14.8	<u>19.3</u>
Mid-Flood	C1	bottom	8.3	M5	9:25	6.9	7.9	9.9	10.7	<u>12.0</u>
Mid-Flood	C1	intake	n.a.	M6	9:13	8.3	8.6	n.a.	n.a.	<u>8.8</u>

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:11 November 2020Part A – Exceedance Summary TablesTable II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-flood	C1	3.0	M1	8:29	3.6	3.9	<u>4.0</u>
Bottom	19.3	22.2	Mid-flood	C1	3.0	M2	8:17	3.6	3.9	<u>4.5</u>
Bottom	19.3	22.2	Mid-flood	C1	3.0	M4	8:12	3.6	3.9	3.8

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

13 November 2020

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	8.5	M1	9:40	6.2	7.4	10.1	11.0	6.6
Mid-Ebb	C2	surface	8.5	M3	10:00	6.2	7.4	10.1	11.0	6.7
Mid-Ebb	C2	surface	8.5	M4	9:21	6.2	7.4	10.1	11.0	<u>12.7</u>
Mid-Ebb	C2	bottom	10.8	M2	9:27	6.9	7.9	12.9	14.0	7.0
Mid-Ebb	C2	bottom	10.8	M5	10:22	6.9	7.9	12.9	14.0	<u>10.3</u>
Mid-Ebb	C2	intake	n.a.	M6	16:35	8.3	8.6	n.a.	n.a.	<u>36.1</u>
Mid-Flood	C1	surface	8.7	M1	15:59	6.2	7.4	10.4	11.3	<u>8.7</u>
Mid-Flood	C1	surface	8.7	M2	15:45	6.2	7.4	10.4	11.3	7.2
Mid-Flood	C1	surface	8.7	M4	9:21	6.2	7.4	10.4	11.3	<u>12.7</u>
Mid-Flood	C1	bottom	6.3	M1	15:59	6.9	7.9	7.5	8.1	<u>9.6</u>
Mid-Flood	C1	bottom	6.3	M2	15:45	6.9	7.9	7.5	8.1	<u>10.0</u>

Note: **Bold Italic** means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:13 November 2020Part A – Exceedance Summary TablesTable II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-Ebb	C2	2.8	M4	9:21	3.3	3.6	3.5

Note: **Bold Italic** means Action Level exceedance
- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

16 November 2020

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	14.5	M1	12:50	6.2	7.4	17.4	18.9	7.0
Mid-Ebb	C2	surface	14.5	M2	12:38	6.2	7.4	17.4	18.9	7.3
Mid-Ebb	C2	surface	14.5	M3	13:10	6.2	7.4	17.4	18.9	6.4
Mid-Ebb	C2	surface	14.5	M4	12:31	6.2	7.4	17.4	18.9	<u>8.1</u>
Mid-Ebb	C2	surface	14.5	M5	13:30	6.2	7.4	17.4	18.9	<u>8.4</u>
Mid-Ebb	C2	bottom	7.7	M1	12:50	6.9	7.9	9.2	9.9	<u>8.9</u>
Mid-Ebb	C2	bottom	7.7	M4	12:31	6.9	7.9	9.2	9.9	7.9
Mid-Ebb	C2	bottom	7.7	M5	13:30	6.9	7.9	9.2	9.9	<u>14.2</u>
Mid-Flood	C1	surface	4.5	M1	8:11	6.2	7.4	5.3	5.8	<u>6.2</u>
Mid-Flood	C1	surface	4.5	M2	7:58	6.2	7.4	5.3	5.8	<u>37.5</u>
Mid-Flood	C1	surface	4.5	M3	8:29	6.2	7.4	5.3	5.8	<u>6.9</u>
Mid-Flood	C1	surface	4.5	M4	12:31	6.2	7.4	5.3	5.8	<u>8.1</u>
Mid-Flood	C1	surface	4.5	M5	8:46	6.2	7.4	5.3	5.8	<u>8.0</u>
Mid-Flood	C1	bottom	6.9	M1	8:11	6.9	7.9	8.2	8.9	<u>8.6</u>
Mid-Flood	C1	bottom	6.9	M2	7:58	6.9	7.9	8.2	8.9	<u>17.0</u>
Mid-Flood	C1	bottom	6.9	M4	12:31	6.9	7.9	8.2	8.9	7.9
Mid-Flood	C1	bottom	6.9	M5	8:46	6.9	7.9	8.2	8.9	<u>11.1</u>
Mid-Flood	C1	intake	n.a.	M6	8:41	8.3	8.6	n.a.	n.a.	8.6

Note: **Bold Italic** means Action Level exceedance

Contract No. CE 59/2015 (EP) Environmental Team for Tseung Kwan O – Lam Tin Tunnel Design and Construction - Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

<u>16 November 2020</u>

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
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- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:16 November 2020Part A – Exceedance Summary TablesTable II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-Ebb	C2	3.2	M1	12:50	3.8	4.1	<u>5.2</u>
Bottom	19.3	22.2	Mid-flood	C1	2.5	M2	7:58	2.9	3.2	3.2
Bottom	19.3	22.2	Mid-flood	C1	2.5	M3	8:29	2.9	3.2	3.0

Note: **Bold Italic** means Action Level exceedance

Date of Water Quality Monitoring:18 November 2020

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	9.4	M1	13:36	6.2	7.4	11.2	12.2	<u>7.8</u>
Mid-Ebb	C2	surface	9.4	M2	13:25	6.2	7.4	11.2	12.2	<u>9.7</u>
Mid-Ebb	C2	surface	9.4	M4	13:18	6.2	7.4	11.2	12.2	<u>8.0</u>
Mid-Ebb	C2	surface	9.4	M5	14:44	6.2	7.4	11.2	12.2	<u>37.8</u>
Mid-Ebb	C2	bottom	39.1	M1	13:36	6.9	7.9	46.9	50.8	7.1
Mid-Ebb	C2	bottom	39.1	M2	13:25	6.9	7.9	46.9	50.8	7.2
Mid-Ebb	C2	bottom	39.1	M4	13:18	6.9	7.9	46.9	50.8	7.9
Mid-Ebb	C2	bottom	39.1	M5	14:44	6.9	7.9	46.9	50.8	<u>8.1</u>
Mid-Flood	C1	surface	10.1	M1	9:43	6.2	7.4	12.1	13.1	<u>9.3</u>
Mid-Flood	C1	surface	10.1	M2	9:28	6.2	7.4	12.1	13.1	<u>8.7</u>
Mid-Flood	C1	surface	10.1	M3	10:13	6.2	7.4	12.1	13.1	7.1
Mid-Flood	C1	surface	10.1	M4	13:18	6.2	7.4	12.1	13.1	<u>8.0</u>
Mid-Flood	C1	surface	10.1	M5	10:40	6.2	7.4	12.1	13.1	<u>32.3</u>
Mid-Flood	C1	bottom	13.8	M2	9:28	6.9	7.9	16.5	17.9	<u>13.7</u>
Mid-Flood	C1	bottom	13.8	M4	13:18	6.9	7.9	16.5	17.9	7.9
Mid-Flood	C1	bottom	13.8	M5	10:40	6.9	7.9	16.5	17.9	<u>8.2</u>
Mid-Flood	C1	intake	n.a.	M6	10:28	8.3	8.6	n.a.	n.a.	<u>10.4</u>

Note: *Bold Italic* means Action Level exceedance

Contract No. CE 59/2015 (EP) Environmental Team for Tseung Kwan O – Lam Tin Tunnel Design and Construction - Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:18 November 2020Part A – Exceedance Summary TablesTable II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-Ebb	C2	1.8	M5	14:44	2.2	2.4	<u>2.5</u>

 Note:
 Bold Italic means Action Level exceedance

 Bold Italic with underline
 means Limit Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

18 November 2020

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Flood	C1	surface	4.2	M1	15:27	6.2	7.4	5.0	5.5	<u>6.5</u>
Mid-Flood	C1	surface	4.2	M2	15:16	6.2	7.4	5.0	5.5	<u>5.8</u>
Mid-Flood	C1	surface	4.2	M5	16:10	6.2	7.4	5.0	5.5	<u>6.4</u>

Note: *Bold Italic* means Action Level exceedance

Contract No. CE 59/2015 (EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction - Notification of Environmental Quality Limit Exceedances

23 November 2020 **Date of Water Quality Monitoring:**

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	3.4	M3	14:01	6.2	7.4	4.0	4.4	<u>5.0</u>
Mid-Ebb	C2	bottom	1.8	M1	13:43	6.9	7.9	2.2	2.3	<u>2.4</u>
Mid-Ebb	C2	bottom	1.8	M2	13:33	6.9	7.9	2.2	2.3	<u>3.2</u>
Mid-Ebb	C2	bottom	1.8	M3	14:01	6.9	7.9	2.2	2.3	<u>3.1</u>
Mid-Ebb	C2	bottom	1.8	M4	13:27	6.9	7.9	2.2	2.3	<u>3.7</u>
Mid-Ebb	C2	bottom	1.8	M5	14:18	6.9	7.9	2.2	2.3	<u>3.4</u>
Mid-Flood	C1	surface	3.1	M2	8:18	6.2	7.4	3.7	4.0	<u>4.4</u>
Mid-Flood	C1	bottom	1.6	M1	8:26	6.9	7.9	1.9	2.0	<u>3.6</u>
Mid-Flood	C1	bottom	1.6	M2	8:18	6.9	7.9	1.9	2.0	<u>3.2</u>
Mid-Flood	C1	bottom	1.6	M3	8:42	6.9	7.9	1.9	2.0	<u>3.6</u>
Mid-Flood	C1	bottom	1.6	M4	13:27	6.9	7.9	1.9	2.0	<u>3.7</u>

Note: **Bold Italic** means Action Level exceedance

Contract No. CE 59/2015 (EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction - Notification of Environmental Quality Limit Exceedances

25 November 2020 **Date of Water Quality Monitoring:**

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	1.7	M4	14:32	6.2	7.4	2.0	2.2	<u>2.3</u>
Mid-Ebb	C2	surface	1.7	M5	15:23	6.2	7.4	2.0	2.2	2.2
Mid-Flood	C1	bottom	0.6	M1	9:25	6.9	7.9	0.7	0.8	<u>2.0</u>
Mid-Flood	C1	bottom	0.6	M2	9:16	6.9	7.9	0.7	0.8	<u>1.8</u>
Mid-Flood	C1	bottom	0.6	M3	9:40	6.9	7.9	0.7	0.8	<u>2.5</u>
Mid-Flood	C1	bottom	0.6	M4	14:32	6.9	7.9	0.7	0.8	<u>1.8</u>
Mid-Flood	C1	bottom	0.6	M5	9:55	6.9	7.9	0.7	0.8	<u>1.5</u>

Note: **Bold Italic** means Action Level exceedance

Contract No. CE 59/2015 (EP) Environmental Team for Tseung Kwan O – Lam Tin Tunnel Design and Construction - Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:27 November 2020Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	bottom	3.3	M1	10:54	6.9	7.9	4.0	4.3	4.1

Note:Bold Italicmeans Action Level exceedanceBold Italic with underlinemeans Limit Level exceedance

Contract No. CE 59/2015 (EP) Environmental Team for Tseung Kwan O – Lam Tin Tunnel Design and Construction - Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:30 November 2020Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	3.9	M5	9:21	6.2	7.4	4.6	5.0	4.8

Note:Bold Italicmeans Action Level exceedanceBold Italic with underlinemeans Limit Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

02 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	bottom	3.2	M1	8:28	6.9	7.9	3.8	4.1	<u>5.2</u>
Mid-Ebb	C2	bottom	3.2	M4	8:11	6.9	7.9	3.8	4.1	<u>5.2</u>
Mid-Ebb	C2	bottom	3.2	M5	9:07	6.9	7.9	3.8	4.1	<u>5.2</u>
Mid-Flood	C1	surface	3.6	M3	14:42	6.2	7.4	4.3	4.7	<u>4.8</u>
Mid-Flood	C1	surface	3.6	M5	14:58	6.2	7.4	4.3	4.7	<u>6.8</u>
Mid-Flood	C1	bottom	2.9	M2	14:01	6.9	7.9	3.4	3.7	<u>5.9</u>
Mid-Flood	C1	bottom	2.9	M4	8:11	6.9	7.9	3.4	3.7	<u>5.2</u>
Mid-Flood	C1	bottom	2.9	M5	14:58	6.9	7.9	3.4	3.7	<u>3.9</u>

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:02 January 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-Ebb	C2	1.3	M1	8:28	1.6	1.7	<u>2.3</u>
Bottom	19.3	22.2	Mid-Ebb	C2	1.3	M3	8:46	1.6	1.7	<u>2.3</u>
Bottom	19.3	22.2	Mid-Ebb	C2	1.3	M5	9:07	1.6	1.7	<u>2.2</u>
Intake	N/A	N/A	Mid-Ebb	C2	1.3	M6	9:00	1.6	1.7	<u>2.4</u>
Bottom	19.3	22.2	Mid-flood	C1	1.6	M1	14:16	1.9	2.0	<u>2.3</u>
Bottom	19.3	22.2	Mid-flood	C1	1.6	M3	14:42	1.9	2.0	<u>2.4</u>
Bottom	19.3	22.2	Mid-flood	C1	1.6	M5	14:58	1.9	2.0	<u>2.2</u>
Intake	N/A	N/A	Mid-flood	C1	1.6	M6	14:51	1.9	2.0	<u>2.4</u>

Note: **Bold Italic** means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

04 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Flood	C1	bottom	2.2	M2	11:54	6.9	7.9	2.6	2.8	<u>4.2</u>
Mid-Flood	C1	bottom	2.2	M3	12:14	6.9	7.9	2.6	2.8	<u>4.0</u>
Mid-Flood	C1	bottom	2.2	M4	14:11	6.9	7.9	2.6	2.8	<u>3.6</u>
Mid-Flood	C1	bottom	2.2	M5	12:28	6.9	7.9	2.6	2.8	<u>4.4</u>

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

06 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	3.3	M3	12:27	6.2	7.4	3.9	4.2	<u>5.3</u>
Mid-Ebb	C2	surface	3.3	M4	11:37	6.2	7.4	3.9	4.2	4.2
Mid-Ebb	C2	bottom	2.2	M1	11:58	6.9	7.9	2.6	2.9	2.7
Mid-Ebb	C2	bottom	2.2	M2	11:43	6.9	7.9	2.6	2.9	<u>3.8</u>
Mid-Ebb	C2	bottom	2.2	M3	12:27	6.9	7.9	2.6	2.9	<u>3.1</u>
Mid-Ebb	C2	bottom	2.2	M4	11:37	6.9	7.9	2.6	2.9	2.7
Mid-Flood	C1	surface	1.8	M4	11:37	6.2	7.4	2.1	2.3	<u>4.2</u>

Note: **Bold Italic** means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

08 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	bottom	2.5	M1	11:09	6.9	7.9	3.0	3.3	3.1
Mid-Ebb	C2	bottom	2.5	M3	11:19	6.9	7.9	3.0	3.3	<u>4.9</u>
Mid-Ebb	C2	bottom	2.5	M4	10:55	6.9	7.9	3.0	3.3	3.1
Mid-Flood	C1	surface	3.4	M2	14:06	6.2	7.4	4.1	4.4	<u>4.8</u>

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:08 January 2021Part A – Exceedance Summary Tables

Table II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-Ebb	C2	1.3	M1	11:09	1.6	1.7	1.7
Bottom	19.3	22.2	Mid-Ebb	C2	1.3	M3	11:19	1.6	1.7	<u>1.8</u>
Bottom	19.3	22.2	Mid-Ebb	C2	1.3	M4	10:55	1.6	1.7	<u>2.2</u>
Bottom	19.3	22.2	Mid-flood	C1	1.6	M3	14:25	1.9	2.0	<u>2.1</u>

Note: **Bold Italic** means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

<u>11 January 2021</u>

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	bottom	3.7	M5	12:21	6.9	7.9	4.4	4.8	4.8
Mid-Flood	C1	bottom	2.3	M2	14:06	6.9	7.9	2.8	3.0	<u>3.4</u>
Mid-Flood	C1	bottom	2.3	M3	14:52	6.9	7.9	2.8	3.0	3.0
Mid-Flood	C1	bottom	2.3	M5	15:04	6.9	7.9	2.8	3.0	<u>3.3</u>

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:11 January 2021Part A – Exceedance Summary Tables

Table II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-Ebb	C2	1.4	M3	12:06	1.7	1.9	1.8
Intake	N/A	N/A	Mid-Ebb	C2	1.4	M6	12:16	1.7	1.9	1.9
Bottom	19.3	22.2	Mid-flood	C1	1.4	M3	14:52	1.7	1.9	<u>2.5</u>
Intake	N/A	N/A	Mid-flood	C1	1.4	M6	14:59	1.7	1.9	<u>2.0</u>

Note: *Bold Italic* means Action Level exceedance

Contract No. CE 59/2015 (EP) Environmental Team for Tseung Kwan O – Lam Tin Tunnel Design and Construction - Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

13 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s) Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
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Note:Bold Italic means Action Level exceedanceBold Italic with underlinemeans Limit Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:13 January 2021Part A – Exceedance Summary TablesTable II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
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Note:Bold Italicmeans Action Level exceedanceBold Italic with underlinemeans Limit Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

15 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	1.9	M1	13:26	6.2	7.4	2.3	2.5	<u>3.1</u>
Mid-Ebb	C2	surface	1.9	M2	13:18	6.2	7.4	2.3	2.5	2.5
Mid-Ebb	C2	surface	1.9	M3	13:35	6.2	7.4	2.3	2.5	<u>2.6</u>
Mid-Ebb	C2	surface	1.9	M4	13:12	6.2	7.4	2.3	2.5	<u>2.7</u>
Mid-Ebb	C2	surface	1.9	M5	13:50	6.2	7.4	2.3	2.5	2.5
Mid-Ebb	C2	bottom	2.3	M1	13:26	6.9	7.9	2.7	2.9	2.9
Mid-Ebb	C2	bottom	2.3	M3	13:35	6.9	7.9	2.7	2.9	<u>3.3</u>
Mid-Flood	C1	bottom	3.5	M1	11:01	6.9	7.9	4.1	4.5	4.3

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:15 January 2021Part A – Exceedance Summary Tables

Table II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-Ebb	C2	1.1	M2	13:18	1.3	n.a.	1.5
Bottom	19.3	22.2	Mid-Ebb	C2	1.1	M3	13:35	1.3	1.4	1.4
Bottom	19.3	22.2	Mid-flood	C1	1.2	M2	10:52	1.5	1.6	<u>1.8</u>
Intake	N/A	N/A	Mid-flood	C1	1.2	M6	11:21	1.5	1.6	<u>2.0</u>

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

18 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	2.9	M1	15:58	6.2	7.4	3.5	3.8	<u>4.5</u>
Mid-Ebb	C2	surface	2.9	M2	15:44	6.2	7.4	3.5	3.8	<u>3.9</u>
Mid-Ebb	C2	surface	2.9	M3	16:25	6.2	7.4	3.5	3.8	<u>5.2</u>
Mid-Ebb	C2	surface	2.9	M5	17:04	6.2	7.4	3.5	3.8	<u>4.9</u>
Mid-Flood	C1	bottom	2.6	M3	10:58	6.9	7.9	3.1	3.4	<u>3.7</u>
Mid-Flood	C1	bottom	2.6	M4	15:37	6.9	7.9	3.1	3.4	<u>4.0</u>

Note: **Bold Italic** means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:18 January 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-Ebb	C2	1.7	M1	15:58	2.1	2.3	<u>2.7</u>
Bottom	19.3	22.2	Mid-Ebb	C2	1.7	M3	16:25	2.1	2.3	2.3
Bottom	19.3	22.2	Mid-Ebb	C2	1.7	M5	17:04	2.1	2.3	2.2
Bottom	19.3	22.2	Mid-flood	C1	1.6	M1	10:30	1.9	2.0	<u>2.7</u>
Bottom	19.3	22.2	Mid-flood	C1	1.6	M2	10:17	1.9	2.0	2.0
Bottom	19.3	22.2	Mid-flood	C1	1.6	M3	10:58	1.9	2.0	<u>2.5</u>
Bottom	19.3	22.2	Mid-flood	C1	1.6	M4	10:10	1.9	2.0	<u>2.1</u>
Bottom	19.3	22.2	Mid-flood	C1	1.6	M5	11:22	1.9	2.0	<u>2.1</u>

Note: **Bold Italic** means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

20 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	3.5	M1	17:11	6.2	7.4	4.1	4.5	<u>5.2</u>
Mid-Ebb	C2	bottom	2.5	M1	17:11	6.9	7.9	3.0	3.3	<u>3.9</u>
Mid-Ebb	C2	bottom	2.5	M2	16:58	6.9	7.9	3.0	3.3	<u>3.9</u>
Mid-Ebb	C2	bottom	2.5	M3	17:37	6.9	7.9	3.0	3.3	<u>4.4</u>
Mid-Ebb	C2	bottom	2.5	M4	16:51	6.9	7.9	3.0	3.3	<u>4.5</u>
Mid-Ebb	C2	bottom	2.5	M5	18:05	6.9	7.9	3.0	3.3	<u>4.0</u>
Mid-Flood	C1	surface	2.5	M1	11:02	6.2	7.4	2.9	3.2	<u>3.3</u>
Mid-Flood	C1	surface	2.5	M2	10:48	6.2	7.4	2.9	3.2	<u>4.7</u>
Mid-Flood	C1	surface	2.5	M3	11:28	6.2	7.4	2.9	3.2	<u>4.5</u>
Mid-Flood	C1	surface	2.5	M4	16:51	6.2	7.4	2.9	3.2	3.2
Mid-Flood	C1	surface	2.5	M5	12:06	6.2	7.4	2.9	3.2	<u>4.1</u>
Mid-Flood	C1	bottom	3.2	M1	11:02	6.9	7.9	3.8	4.1	<u>4.9</u>
Mid-Flood	C1	bottom	3.2	M4	16:51	6.9	7.9	3.8	4.1	<u>4.5</u>
Mid-Flood	C1	bottom	3.2	M5	12:06	6.9	7.9	3.8	4.1	<u>6.8</u>

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

22 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Flood	C1	surface	2.3	M1	13:10	6.2	7.4	2.7	2.9	2.9
Mid-Flood	C1	surface	2.3	M2	13:00	6.2	7.4	2.7	2.9	<u>3.2</u>
Mid-Flood	C1	surface	2.3	M5	13:45	6.2	7.4	2.7	2.9	<u>3.4</u>
Mid-Flood	C1	bottom	3.1	M5	13:45	6.9	7.9	3.7	4.0	<u>4.1</u>

Note: **Bold Italic** means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:22 January 2021Part A – Exceedance Summary TablesTable II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-flood	C1	1.9	M1	13:10	2.3	2.5	<u>2.9</u>
Bottom	19.3	22.2	Mid-flood	C1	1.9	M2	13:00	2.3	2.5	<u>2.7</u>
Bottom	19.3	22.2	Mid-flood	C1	1.9	M3	13:28	2.3	2.5	<u>4.0</u>

Note: **Bold Italic** means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

25 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Flood	C1	surface	2.3	M1	9:39	6.2	7.4	2.8	3.0	<u>3.1</u>
Mid-Flood	C1	bottom	1.1	M2	9:31	6.9	7.9	1.3	1.4	<u>1.6</u>
Mid-Flood	C1	bottom	1.1	M5	10:10	6.9	7.9	1.3	1.4	<u>1.8</u>

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:25 January 2021Part A – Exceedance Summary TablesTable II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-flood	C1	2.0	M1	9:39	2.5	2.7	<u>3.1</u>
Bottom	19.3	22.2	Mid-flood	C1	2.0	M2	9:31	2.5	2.7	<u>3.2</u>
Bottom	19.3	22.2	Mid-flood	C1	2.0	M3	9:54	2.5	2.7	<u>3.6</u>

Note: **Bold Italic** means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

27 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	bottom	1.5	M2	10:26	6.9	7.9	1.7	1.9	<u>2.4</u>
Mid-Ebb	C2	bottom	1.5	M4	10:20	6.9	7.9	1.7	1.9	<u>2.1</u>
Mid-Flood	C1	bottom	1.3	M2	15:17	6.9	7.9	1.6	1.7	<u>2.2</u>
Mid-Flood	C1	bottom	1.3	M3	15:45	6.9	7.9	1.6	1.7	<u>2.7</u>
Mid-Flood	C1	bottom	1.3	M4	10:20	6.9	7.9	1.6	1.7	<u>2.1</u>

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

29 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	0.6	M1	11:58	6.2	7.4	0.7	0.7	<u>1.8</u>
Mid-Ebb	C2	surface	0.6	M2	11:43	6.2	7.4	0.7	0.7	<u>1.1</u>
Mid-Ebb	C2	surface	0.6	M3	12:27	6.2	7.4	0.7	0.7	<u>1.2</u>
Mid-Ebb	C2	surface	0.6	M5	12:52	6.2	7.4	0.7	0.7	<u>1.6</u>
Mid-Flood	C1	surface	2.4	M3	8:47	6.2	7.4	2.8	3.1	<u>3.4</u>

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

02 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	bottom	3.2	M1	8:28	6.9	7.9	3.8	4.1	<u>5.2</u>
Mid-Ebb	C2	bottom	3.2	M4	8:11	6.9	7.9	3.8	4.1	<u>5.2</u>
Mid-Ebb	C2	bottom	3.2	M5	9:07	6.9	7.9	3.8	4.1	<u>5.2</u>
Mid-Flood	C1	surface	3.6	M3	14:42	6.2	7.4	4.3	4.7	<u>4.8</u>
Mid-Flood	C1	surface	3.6	M5	14:58	6.2	7.4	4.3	4.7	<u>6.8</u>
Mid-Flood	C1	bottom	2.9	M2	14:01	6.9	7.9	3.4	3.7	<u>5.9</u>
Mid-Flood	C1	bottom	2.9	M4	8:11	6.9	7.9	3.4	3.7	<u>5.2</u>
Mid-Flood	C1	bottom	2.9	M5	14:58	6.9	7.9	3.4	3.7	<u>3.9</u>

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:02 January 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-Ebb	C2	1.3	M1	8:28	1.6	1.7	<u>2.3</u>
Bottom	19.3	22.2	Mid-Ebb	C2	1.3	M3	8:46	1.6	1.7	<u>2.3</u>
Bottom	19.3	22.2	Mid-Ebb	C2	1.3	M5	9:07	1.6	1.7	<u>2.2</u>
Intake	N/A	N/A	Mid-Ebb	C2	1.3	M6	9:00	1.6	1.7	<u>2.4</u>
Bottom	19.3	22.2	Mid-flood	C1	1.6	M1	14:16	1.9	2.0	<u>2.3</u>
Bottom	19.3	22.2	Mid-flood	C1	1.6	M3	14:42	1.9	2.0	<u>2.4</u>
Bottom	19.3	22.2	Mid-flood	C1	1.6	M5	14:58	1.9	2.0	<u>2.2</u>
Intake	N/A	N/A	Mid-flood	C1	1.6	M6	14:51	1.9	2.0	<u>2.4</u>

Note: **Bold Italic** means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

04 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Flood	C1	bottom	2.2	M2	11:54	6.9	7.9	2.6	2.8	<u>4.2</u>
Mid-Flood	C1	bottom	2.2	M3	12:14	6.9	7.9	2.6	2.8	<u>4.0</u>
Mid-Flood	C1	bottom	2.2	M4	14:11	6.9	7.9	2.6	2.8	<u>3.6</u>
Mid-Flood	C1	bottom	2.2	M5	12:28	6.9	7.9	2.6	2.8	<u>4.4</u>

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

06 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	3.3	M3	12:27	6.2	7.4	3.9	4.2	<u>5.3</u>
Mid-Ebb	C2	surface	3.3	M4	11:37	6.2	7.4	3.9	4.2	4.2
Mid-Ebb	C2	bottom	2.2	M1	11:58	6.9	7.9	2.6	2.9	2.7
Mid-Ebb	C2	bottom	2.2	M2	11:43	6.9	7.9	2.6	2.9	<u>3.8</u>
Mid-Ebb	C2	bottom	2.2	M3	12:27	6.9	7.9	2.6	2.9	<u>3.1</u>
Mid-Ebb	C2	bottom	2.2	M4	11:37	6.9	7.9	2.6	2.9	2.7
Mid-Flood	C1	surface	1.8	M4	11:37	6.2	7.4	2.1	2.3	<u>4.2</u>

Note: **Bold Italic** means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

08 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	bottom	2.5	M1	11:09	6.9	7.9	3.0	3.3	3.1
Mid-Ebb	C2	bottom	2.5	M3	11:19	6.9	7.9	3.0	3.3	<u>4.9</u>
Mid-Ebb	C2	bottom	2.5	M4	10:55	6.9	7.9	3.0	3.3	3.1
Mid-Flood	C1	surface	3.4	M2	14:06	6.2	7.4	4.1	4.4	<u>4.8</u>

Note: *Bold Italic* means Action Level exceedance
- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:08 January 2021Part A – Exceedance Summary Tables

Table II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-Ebb	C2	1.3	M1	11:09	1.6	1.7	1.7
Bottom	19.3	22.2	Mid-Ebb	C2	1.3	M3	11:19	1.6	1.7	<u>1.8</u>
Bottom	19.3	22.2	Mid-Ebb	C2	1.3	M4	10:55	1.6	1.7	<u>2.2</u>
Bottom	19.3	22.2	Mid-flood	C1	1.6	M3	14:25	1.9	2.0	<u>2.1</u>

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

<u>11 January 2021</u>

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	bottom	3.7	M5	12:21	6.9	7.9	4.4	4.8	4.8
Mid-Flood	C1	bottom	2.3	M2	14:06	6.9	7.9	2.8	3.0	<u>3.4</u>
Mid-Flood	C1	bottom	2.3	M3	14:52	6.9	7.9	2.8	3.0	3.0
Mid-Flood	C1	bottom	2.3	M5	15:04	6.9	7.9	2.8	3.0	<u>3.3</u>

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:11 January 2021Part A – Exceedance Summary Tables

Table II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-Ebb	C2	1.4	M3	12:06	1.7	1.9	1.8
Intake	N/A	N/A	Mid-Ebb	C2	1.4	M6	12:16	1.7	1.9	1.9
Bottom	19.3	22.2	Mid-flood	C1	1.4	M3	14:52	1.7	1.9	<u>2.5</u>
Intake	N/A	N/A	Mid-flood	C1	1.4	M6	14:59	1.7	1.9	<u>2.0</u>

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

15 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	1.9	M1	13:26	6.2	7.4	2.3	2.5	<u>3.1</u>
Mid-Ebb	C2	surface	1.9	M2	13:18	6.2	7.4	2.3	2.5	2.5
Mid-Ebb	C2	surface	1.9	M3	13:35	6.2	7.4	2.3	2.5	<u>2.6</u>
Mid-Ebb	C2	surface	1.9	M4	13:12	6.2	7.4	2.3	2.5	<u>2.7</u>
Mid-Ebb	C2	surface	1.9	M5	13:50	6.2	7.4	2.3	2.5	2.5
Mid-Ebb	C2	bottom	2.3	M1	13:26	6.9	7.9	2.7	2.9	2.9
Mid-Ebb	C2	bottom	2.3	M3	13:35	6.9	7.9	2.7	2.9	<u>3.3</u>
Mid-Flood	C1	bottom	3.5	M1	11:01	6.9	7.9	4.1	4.5	4.3

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:15 January 2021Part A – Exceedance Summary Tables

Table II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-Ebb	C2	1.1	M2	13:18	1.3	n.a.	1.5
Bottom	19.3	22.2	Mid-Ebb	C2	1.1	M3	13:35	1.3	1.4	1.4
Bottom	19.3	22.2	Mid-flood	C1	1.2	M2	10:52	1.5	1.6	<u>1.8</u>
Intake	N/A	N/A	Mid-flood	C1	1.2	M6	11:21	1.5	1.6	<u>2.0</u>

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

18 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	2.9	M1	15:58	6.2	7.4	3.5	3.8	<u>4.5</u>
Mid-Ebb	C2	surface	2.9	M2	15:44	6.2	7.4	3.5	3.8	<u>3.9</u>
Mid-Ebb	C2	surface	2.9	M3	16:25	6.2	7.4	3.5	3.8	<u>5.2</u>
Mid-Ebb	C2	surface	2.9	M5	17:04	6.2	7.4	3.5	3.8	<u>4.9</u>
Mid-Flood	C1	bottom	2.6	M3	10:58	6.9	7.9	3.1	3.4	<u>3.7</u>
Mid-Flood	C1	bottom	2.6	M4	15:37	6.9	7.9	3.1	3.4	<u>4.0</u>

Note: **Bold Italic** means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:18 January 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-Ebb	C2	1.7	M1	15:58	2.1	2.3	<u>2.7</u>
Bottom	19.3	22.2	Mid-Ebb	C2	1.7	M3	16:25	2.1	2.3	2.3
Bottom	19.3	22.2	Mid-Ebb	C2	1.7	M5	17:04	2.1	2.3	2.2
Bottom	19.3	22.2	Mid-flood	C1	1.6	M1	10:30	1.9	2.0	<u>2.7</u>
Bottom	19.3	22.2	Mid-flood	C1	1.6	M2	10:17	1.9	2.0	2.0
Bottom	19.3	22.2	Mid-flood	C1	1.6	M3	10:58	1.9	2.0	<u>2.5</u>
Bottom	19.3	22.2	Mid-flood	C1	1.6	M4	10:10	1.9	2.0	<u>2.1</u>
Bottom	19.3	22.2	Mid-flood	C1	1.6	M5	11:22	1.9	2.0	<u>2.1</u>

Note: **Bold Italic** means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

20 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	3.5	M1	17:11	6.2	7.4	4.1	4.5	<u>5.2</u>
Mid-Ebb	C2	bottom	2.5	M1	17:11	6.9	7.9	3.0	3.3	<u>3.9</u>
Mid-Ebb	C2	bottom	2.5	M2	16:58	6.9	7.9	3.0	3.3	<u>3.9</u>
Mid-Ebb	C2	bottom	2.5	M3	17:37	6.9	7.9	3.0	3.3	<u>4.4</u>
Mid-Ebb	C2	bottom	2.5	M4	16:51	6.9	7.9	3.0	3.3	<u>4.5</u>
Mid-Ebb	C2	bottom	2.5	M5	18:05	6.9	7.9	3.0	3.3	<u>4.0</u>
Mid-Flood	C1	surface	2.5	M1	11:02	6.2	7.4	2.9	3.2	<u>3.3</u>
Mid-Flood	C1	surface	2.5	M2	10:48	6.2	7.4	2.9	3.2	<u>4.7</u>
Mid-Flood	C1	surface	2.5	M3	11:28	6.2	7.4	2.9	3.2	<u>4.5</u>
Mid-Flood	C1	surface	2.5	M4	16:51	6.2	7.4	2.9	3.2	3.2
Mid-Flood	C1	surface	2.5	M5	12:06	6.2	7.4	2.9	3.2	<u>4.1</u>
Mid-Flood	C1	bottom	3.2	M1	11:02	6.9	7.9	3.8	4.1	<u>4.9</u>
Mid-Flood	C1	bottom	3.2	M4	16:51	6.9	7.9	3.8	4.1	<u>4.5</u>
Mid-Flood	C1	bottom	3.2	M5	12:06	6.9	7.9	3.8	4.1	<u>6.8</u>

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

22 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Flood	C1	surface	2.3	M1	13:10	6.2	7.4	2.7	2.9	2.9
Mid-Flood	C1	surface	2.3	M2	13:00	6.2	7.4	2.7	2.9	<u>3.2</u>
Mid-Flood	C1	surface	2.3	M5	13:45	6.2	7.4	2.7	2.9	<u>3.4</u>
Mid-Flood	C1	bottom	3.1	M5	13:45	6.9	7.9	3.7	4.0	<u>4.1</u>

Note: **Bold Italic** means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:22 January 2021Part A – Exceedance Summary TablesTable II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-flood	C1	1.9	M1	13:10	2.3	2.5	<u>2.9</u>
Bottom	19.3	22.2	Mid-flood	C1	1.9	M2	13:00	2.3	2.5	<u>2.7</u>
Bottom	19.3	22.2	Mid-flood	C1	1.9	M3	13:28	2.3	2.5	<u>4.0</u>

Note: **Bold Italic** means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

25 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Flood	C1	surface	2.3	M1	9:39	6.2	7.4	2.8	3.0	<u>3.1</u>
Mid-Flood	C1	bottom	1.1	M2	9:31	6.9	7.9	1.3	1.4	<u>1.6</u>
Mid-Flood	C1	bottom	1.1	M5	10:10	6.9	7.9	1.3	1.4	<u>1.8</u>

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:25 January 2021Part A – Exceedance Summary TablesTable II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-flood	C1	2.0	M1	9:39	2.5	2.7	<u>3.1</u>
Bottom	19.3	22.2	Mid-flood	C1	2.0	M2	9:31	2.5	2.7	<u>3.2</u>
Bottom	19.3	22.2	Mid-flood	C1	2.0	M3	9:54	2.5	2.7	<u>3.6</u>

Note: **Bold Italic** means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

27 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	bottom	1.5	M2	10:26	6.9	7.9	1.7	1.9	<u>2.4</u>
Mid-Ebb	C2	bottom	1.5	M4	10:20	6.9	7.9	1.7	1.9	<u>2.1</u>
Mid-Flood	C1	bottom	1.3	M2	15:17	6.9	7.9	1.6	1.7	<u>2.2</u>
Mid-Flood	C1	bottom	1.3	M3	15:45	6.9	7.9	1.6	1.7	<u>2.7</u>
Mid-Flood	C1	bottom	1.3	M4	10:20	6.9	7.9	1.6	1.7	<u>2.1</u>

Note: *Bold Italic* means Action Level exceedance

- Notification of Environmental Quality Limit Exceedances

Date of Water Quality Monitoring:

29 January 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	0.6	M1	11:58	6.2	7.4	0.7	0.7	<u>1.8</u>
Mid-Ebb	C2	surface	0.6	M2	11:43	6.2	7.4	0.7	0.7	<u>1.1</u>
Mid-Ebb	C2	surface	0.6	M3	12:27	6.2	7.4	0.7	0.7	<u>1.2</u>
Mid-Ebb	C2	surface	0.6	M5	12:52	6.2	7.4	0.7	0.7	<u>1.6</u>
Mid-Flood	C1	surface	2.4	M3	8:47	6.2	7.4	2.8	3.1	<u>3.4</u>

Note: *Bold Italic* means Action Level exceedance

APPENDIX L SUMMARIES OF ENVIRONMENTAL COMPLAINT, WARNING, SUMMON AND NOTIFICATION OF SUCCESSFUL PROSECUTION

Appendix L - Cumulative Log for Complaints, Notifications of Summons and Successful Prosecutions <u>Table L1 - Cumulative Complaint Log for Tseung Kwan O - Lam Tin Tunnel</u>

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level	Investigation/ Mitigation Action	Status
1101	Dute	Complaint				Exceedance		
516	26-Jan-21	21-Feb-2021 / Non- specific	Resident of Ocean Shores	Noise / Operating Hours		N	No PME was operating on-site on the date of complaint. The details shall be referred to CIR-N128	Closed
515	23-Jan-21	12-13 & 18 Feb 2021 / Non-specific	Resident of Yau Lei Estate & Hong Pak Court	Noise	Continous Noise Nuisance during Nighttime (Jan 2021)	N	See complaint #504	Draft CIR submitted
514	22-Jan-21	8/2/2021 / Non-specific	Resident of Ocean Shores	Noise		Y	See complaint #511	Closed
513	22-Jan-21	15-Jan-2021 / Zone D	Resident of Ocean	Air	Air quality impact due to open	N	See Complaint #509	Closed
512	22-Jan-21	20-Jan-2021 / Zone D	Shores	All	stockpile	Ν	See Company #305	Closed
511	20-Jan-21	6/1/2021 & 15/1/2021 / Portion IX of C2	Resident of Ocean Shores	Noise	Continue Nation National Autor	Y	The complaint is considered as project-related as barge was operating in during time of complaint. The details shall be referred to CIR-N128	Closed
510	19-Jan-21	Non-specific / Portion IX of C2	Resident of Ocean Shores	Noise	Nighttime (Jan 2021)	Ν	See complaint #505	Closed
509	15-Jan-21	15/1/2021 / Portion IX of C2	Resident of Ocean Shores	Noise		Ν	See complaint #505	Closed
508	13-Jan-21	5/1/2020 / Storage Area	Resident of Ocean Shores	Air	Air quality impact due to open	N	The Complaint was found project-related. The dust origin was from the stockpile at Zone A of C3. The Contractor had sprayed water regularly to suppress the dust emission and improvement had been observed	Closed
507		0103	Resident of Ocean Shores	Air	stockpile	N	over Jan 2021. Details shall be referred to CIR-A20.	
506	7-Jan-21	6-Jan-2020 / Portion IX	Resident of Ocean Shores	Noise	Continous Noise Nuisance during	Y	See Complaint #500	Closed
505	4-Jan-21	22-Dec-2020 / Portion IX	Resident of Ocean Shores	Noise	Nighttime (Jan 2021)	Ν	No clear judgement was made. Other than the construction site, other source for low-frequncy noise was also identified. Details shall be referred to CIR-N128	Closed
504	4-Jan-21	1-Jan-2020/C1	Resident of Yau Lai Est.	Noise	Suspected noise nuisance from work site	Ν	The complaint was considered non-project-related as there was no PME working on site. The details shall be referred to CIR-N127.	Draft CIR submitted
503	30-Dec-20	21-Dec-2020 / Portion IX	Resident of Ocean Shores	Noise		Y		Closed
502	28-Dec-20	22&23-Dec-2020 / Portion IX	Resident of Ocean Shores	Noise		Y	See complaint #500	Closed
501B	23-Dec-20	22-Dec-2020 / Portion IX	Resident of Ocean Shores	Noise	Noise puisepee et pighttime op e	Y		Closed
501A	23-Dec-20	22-Dec-2020 / Portion IX	Resident of Ocean Shores	Noise	weekday	Ν	No direct evidence show that the Contractor operated barges at the time of complaint. Therefore the complaint was considered as non-project-related. The details shall be referred to CIR-N126.	Closed
501	23-Dec-20	22-Dec-2020 / Portion IX	Resident of Ocean Shores	Noise		Y	The Contractor operated PME(s) at evening-/night- time without an approved valid CNP. The complaint is	Closed
500	22-Dec-20	22-Dec-2020 / Portion IX	Resident of Ocean Shores	Noise		Y	considered as project-related. The details shall be referred to CIR-N126.	Closed
499	21-Dec-20	20/12/2020 / marine works area	Resident of Ocean Shores	Operating hours / Noise	Horning noise nuisance on Sunday	N	The complaint is considered as non-project-related as no barge was working under the TKOLTT project at the time of complaint. The details shall be referred to CIR-O6.	Closed
498	18-Dec-20	17-Dec-2020 / Marine Works Area	Resident of Ocean Shores	Noise	Low frequency noise & occasional piling noise nuisance during night- time	Y	The complaint is considered as project-related as the noise nuisance was coming from water pumps that working 24/7. Details shall be referring to CIR-N125.	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
497	9-Dec-20	Days on/before 9/12/2020 / Portion IVC	Resident of Yau Lai Estate	Air & Noise	Dust & Noise Nuisance near Lam Tin Interchange (December)	Y	See Complaint #494	Draft CIR submitted
496	3-Dec-20	Days before 3-Dec-20 / Lam Tin Tunnel	Resident of Hong Pak Court	Noise	Dust & Noise Nuisance near Lam Tin Interchange (December)	Y	See Complaint #494	Draft CIR submitted
495	16-Dec-20	12-Dec-2020 / Po Yap Road	Resident of Park Central	Noise	Night time machenical noise nuisance	Y	The complaint is considered as project-related as the noise nuisance was coming from water pumps that working 24/7. Details shall be referring to N124.	Closed
494	5-Dec-20	Early Dec 2020 / Portion III	Resident of Lung Pak House / Staff from Elderly Hoouse nearby	Noise	Noise Nuisance near Lam Tin Interchange (December)	Y	The complaint is considered as project-related and no non-compliance in CNMP had been recorded. The contractor is reminded to ensure the effectiveness of noise mitigation measures by various measures including repairing damaged noise barrier. The details shall be referred to CIR-C40.	Draft CIR submitted
493	8-Dec-20	25-Nov-2020 & 2-Dec- 2020 / Works area nearby Park Central	Resident of Park Central	Noise	Percussive noise nuisance from at early morning	Ν	The complaint is considered as non-project-related. No operating PME(s) under TKO-LTT project at the time of complaint was known to emit percussive noise at the time of complaint. The details shall be referred to CIR-N123.	Closed
492	18-Nov-20	18-Nov-2020 / Portion VIII (C2)	Resident of Ocean Shores	Noise	Construction Noise nuisance at Morning	Y	Prelimary result reveals that pre-boring and breaking works had been conducted at the time of complaint. The details shall be referred to CIR-N122.	Closed
491	18-Nov-20	16-Nov-2020 / C1	Resident of Yau Lai Estate	Noise	Noise Nuisance near Lam Tin Interchange (Restricted Hour)	Y	See Complaint #490.	Draft CIR submitted
490	13 & 16 Nov 20	5-12 & 14-Nov-2020 / C1	Resident of Yau Lai Estate	Noise	Noise Nuisance near Lam Tin Interchange (Restricted Hour)	Y	The complaint is considered as project-related. The origin of noise nuisance was believed to be construction works at Tunnel S1 and S2. No non-compliance was found and the details shall be referred to CIR-N121	Draft CIR submitted
489	13-Nov-20	13-Nov-2020 / C1	Resident of Yau Lai Estate	Air & Noise	Dust and Noise Nuisance in Portion IVC	Y	The complaint was found project-related. The contractor had adpoted various noise mitigation measures suc as rock splitting method and erection of semi-enclosure to further reduce the noise impact to its surrounding. The details shall be referred to CIR-C39.	Draft CIR submitted
488	13-Nov-20	10-Nov-2020 / C2	Resident of Ocean Shores	Air	Dust emission from construction works	Ν	The complaint was found project-related. The Contractor is recommended to spray water more requently to suppress the dust nuisance. The details shall be referred to CIR-A19.	Closed
487	11-Nov-20	5-Nov-2020 / Portion IVC	Resident of Yau Lai Estate	Noise	Noise Nuisance near Lam Tin Interchange (Late September to November)	Y	See Compliant #468	Draft CIR submitted
486	11-Nov-20	6-Nov-2020 / Portion IVC	Resident of Yau Lai Estate	Noise	Noise Nuisance near Lam Tin Interchange (Late September to November)	Y	See Compliant #468	Draft CIR submitted
485	7-Nov-20	7-Nov-20	Resident of Park Central	Noise	Precussive noise nearby Park Central	Y	The complaint is considered non-project-related as no PME that know to emit percussive noise was operating during the time of complaint. The details shall be referred to CIR-N120.	Closed
484	7-Nov-20	7-Nov-20 / Portion IV	Resident of Ocean Shores	Noise	Noise Nuisance from Excavation Works	Y	See complaint #481	Closed
483	6-Nov-20	6-Nov-20	Resident of Ocean Shores	Noise	Low-frequency noise at night (Oct&Nov 2020)	Ν	The low-frequency noise was found coming from the water pumps that works 24/7 and other source may also contribute to the noise nuisace. The Contractor had followed the approved CNP. The complaint is considered project-related and shall be referred to CIR-N119	Closed
482	30-Oct-20	29-Oct-2020 / C2	Non-specific	Air	Dust emission from construction works	Ν	Despite the contractor had sprinkle water regularly, the haul road was found dry during site audit session. The Contractor is reminded to sprinkle water more frequently and cover stockpiles of dusty material to reduce dust emission. The details shall be referred to CIR-A19	Closed
481	3-Nov-20	2-Nov-2020 /Portion IV	Resident of Ocean Shores	Noise	Noise Nuisance from Excavation Works	Y	The complaint is considered project-related as no other possible noise origin is know to emit such kind of noise at the surrounding. The Contractor had been reminded to applied lubricants and tighten the screws to reduce noise level. The details shall be referred to CIR-N118	Closed
480	3-Nov-20	3-Nov-2020 / Portion IVC	Resident of Yau Lai Est	Noise	Noise Nuisance near Lam Tin Interchange (Late September to November)	Y	See Complaint #469	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
479	3-Nov-20	2-Nov-2020 / Portion IVC	Resident of Yau Lai Est	Noise	Noise Nuisance near Lam Tin Interchange (Late September to Early November)	Y	See Complaint #469	Closed
478	3-Nov-20	30-Oct-2020 / Portion IVC	Mr. Wong from District Councilers	Noise	Noise Nuisance near Lam Tin Interchange (Late September to Early November)	Y	See Complaint #469	Closed
477	30-Oct-20	15-Oct-2020 / Portion IVC	Non-specific	Air	Air & Noise Nuisance near Lam Tin Interchange (October)	Ν	See Complaint #469	Closed
476	29-Oct-20	29-Oct-2020 / Portion IVC	Resident of Yau Lai Est	Noise	Noise Nuisance near Lam Tin Interchange (Late September to Early November)	Y	See Compliant #468	Draft CIR submitted
475	28-Oct-20	Not specific / Lam Tin interchange	Non-specified (near Yau Lai Estate)	Noise	Air & Noise Nuisance near Lam Tin Interchange (October)	Y	See Complaint #469	Closed
474	23-Oct-20	23-Oct-20 / Portion IX	Resident from Ocean Shores	Noise	Low-frequency noise at night (Oct- Nov 2020)	Ν	The low-frequency noise was found coming from the water pumps that works 24/7 and other source may also contribute to the noise nuisace. The Contractor had followed the approved CNP. The complaint is considered project-related and shall be referred to CIR-N119	Closed
473	21-Oct-20	19-Oct-20 / Portion IX	Resident from Ocean Shores	Noise	Noise Nuisance near Portion IX	Y	See complaint #459	On-going
472	20-Oct-20	20-Oct-20 / Portion IV	Resident from Ocean Shores	Noise	Noise Nuisance from Excavation Works	Y	Preliminary results show the noise source was from the backhoe at Portion IV. The Contractor had applied mitigation measures such as adding lubricant to mounting parts to alleviate the problem. The details shall be referred to CIR-N118	Closed
471	6-Oct-20	6-Oct-20 / Portion IX	Resident from Ocean Shores	Noise	Noise nuisance at morning (Oct 2020)	Y	See complaint #459	On-going
470	10-Oct-20	3-10 Oct 20 / Portion IVC	Resident of Yau Lai Estate	Noise	Noise Nuisance near Lam Tin Interchange (Late September to Early November)	Y	See Compliant #468	Draft CIR submitted
469	10-Oct-20	9-10 Oct 20 / Lam Tin Interchange	DC Member (Mr. Wang)	Noise	Air & Noise Nuisance near Lam Tin Interchange (October)	Y	The complaint is considered as project-related and no non-compliance in CNMP had been recorded. The contractor had adopted mitigation measures such as deploying noise absorbing materials among construction site and spraying water near dust generating activities. The details shall be referred to CIR-C38.	Closed
468	5-Oct-20	Mondays - Saturdays / Portion IVC	Resident of Yau Lai Estate	Noise	Noise Nuisance near Lam Tin Interchange (Late September to Early November)	Y	The complaint was considered project-related. Mitigation measures such as deploying noise barrier and attempts on blocking direct line of sight from NSR was observed. The details shall be referred to CIR-N117.	Draft CIR submitted
467	23-Sep-20	19-Sep-2020 / Portion IX		Noise	Daytime noise nuisance (mid- September)	Y	See complaint #459	On-going
466	22-Sep-20	20-Sep-2020 / Portion IX	Resident of Ocean Shores	Noise / Working	Noise nuisance on Sunday	Y	Investigation result shows none of the contract under TKOLTT conducted works on Sunday. The details	Closed
465	20-Sep-20	20-Sep2020 / Portion IX		Hours	Noise nuisance on Sunday	Y	shall be referred to CIR-O5	Closed
464	17-Sep-20	August 2020 / Portion IX	Resident of Ocean Shores	Noise	Continuous Noise Nuisance over Aug 2020	Y	The investigation shows no non-compliance and action level for noise is triggered. The details shall be referred to CIR-N113	Closed
463	15-Sep-20	15-Sep-2020 / Non- specific	Anonymous	Noise	Percussive noise nuisance at early morning	Y	The complaint is considered non-project-related. The investigation pointed out the Contractor had maintain wastewater treatment facilities properly and no action or limit level of surface SS was triggered after the	Closed
462	8-Sep-20	10-Sep-2020 / Potion IX	Anonymous	Noise	Suspected muddy water discharge	Ν	incident. The muddy water was coming from DSD desilting compound. Details shall be referred to CIR-W16	Closed
461	5-Sep-20	5-Sep-2020 / Portion IX	Resident of Ocean Shores	Noise	Squeaky noise on a Saturnday Morning	Y	The squeaky noise believed was coming from operating barges at C6. No non compliance was found. Details shall be referred to CIR-N115	Closed
460	8-Sep-20	8-Sep-2020 / Portion IVC	Resident of Yau Lai Estate	Noise	Noise nuisance near East Habour Cross Tunnel	Y	See complaint #456 - #458	Draft CIR submitted
459	4-Sep-20	1-Sep-2020 / Portion IX	Resident of Ocean Shores	Noise	Noise nuisance at morning (Early Sep 2020)	Y	The complainant had repeatedly complaint about the continuous noise nuisace from September to October 2020. The CIR will be prepared in one-go. Meanwhile, no action level of construction noise was recorded during noise monitoring; no non-compliance was identified during site inspection.	On-going

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
458	28-Aug-20	Early August 20 / Lam Tin Tunnel	Resident from Yau Lai Estate	Noise	Long-term noise nuisance since early August	Y		Draft CIR submitted
457	27-Aug-20	24&25-Aug-20 / Portion IX	Rersident from Ocean Shores	Noise	Noise nuisance at morning (Late August 2020)	Y	Investigation showed the nuisance was generated by breaking works. The contractor had promised to complete the semi-enclosure by October 2020. The details shall be referred to CIR-N112	Draft CIR submitted
456	18-Aug-20	18-Aug-20 / Portion IVC	Resident from Yau Lai Estate	Noise	Noise nuisance near East Habour Cross Tunnel	Y		Draft CIR submitted
455	18-Aug-20	Dates on/before 1-Aug-20 / Lam Tin Tunnel	Resident from Yau Lai Estate	Noise	Noise nuisance from tunnel works	Y	Breaking had been conducted during the time of complaint. The details shall be referred to CIR-N111	Draft CIR submitted
454	11-Aug-20	2-Aug-20 / Sea outside Ocean Shores	Resident from Ocean Shores	Operation Hours	Working on restricted hours and public holiday	N	The working barge was believed to be working under the Cross Bay Link project. None of the barges working on the time of complaint belongs to TKOLTT project. Despite works had been conducted, no PME was turned on during the time of complaint. The details shall be referred to CIR-O4.	Closed
453	3-Aug-20	3-Aug-20 / Western Marine Works Area	Resident from Ocean Shores	Water	Suspected muddy water and worn out silt curtain	N	The suspected muddy water was due to the strong tidal movement under typhoon influence. The silt curtain was not deployed properly when the typhoon was landed. Details shall be referred to CIR-W15	Closed
452	1-Aug-20	31-Jul-20 / Marine Works Area	Resident from Ocean Shores	Noise	Squeaky noise during nighttime	Y	The noise was originated from the wires that used for tightening the barge. The Contractor had not fasten the wire completely as strong wave and wind actionmay tear up the wire and made the barge stranded. The details shall be referred to CIR-N110.	Closed
451	28-Jul-20	28-Jul-20 / Portion IX	Resident from Ocean Shores	Noise	Breaking noise on the morning	Y	Breaking had been conducted during the time of complaint. The details shall be referred to CIR-N109	Closed
450	23-Jul-20 24-Jul-20	23&24-Jul-20 / Works area nearby Ocean Shores	Residents from Ocean Shores	Noise	Noise nuisance on weekdays	Y	The noise nuisance was originated from high-noise level works such as breaking and drilling. The details shall be referred to CIR-N108	Draft CIR submitted
449	16-Jul-20	12-Jul-20 / Lam Tin Tunnel	Resident of Hong Pak Court	Noise	Noise Nuisance Suspected from Tunnel (C1)	Y	Breaking work was conducted near the underground of Hong Pak Court. No non-conformance of CNP was identified, contractor is reminded to strictly follow the conditions of CNP and the time period of CNP. The details shall be referred to CIR-N110.	Closed
448	4-Jul-20	4-Jul-20 noon / Marine works area nearby Ocean Shores	Resident of Ocean Shores	Air	Dark Smoke Emission from Barge	N	The dark smoke was originated from the barge. It is common that dark smoke will be released when the barge's engine was starting. The details shall be referred to CIR-A18.	Draft CIR submitted
447C	10-Jul-20	28-Jun-2020 / TKO South open sea		Water	Suspected oil leakage at the TKO south open sea	Ν		
447B	10-Jul-20	29-Jun-2020 / TKO south open sea & flyover towards TKO Chinese Permanent Cemetery	Anonymous	Water / Noise	Suspected muddy water spillage and noise nuisance due to speeding	N	The suspected oil leakage was believed to be an algae bloom over the whole bay area. The noise nuisance from speeding was considered not project related. The details shall be referred to CIR-C37	Closed
447A	10-Jul-20	24-Jun-2020 / Non- specific		Noise	Long-term noise nuisance and insufficient noise mitigation measures	Y		

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446	12-Jun-20	31-May-2020 / Area nearby Yau Lai Est	Resident of Yau Lai Estate	Noise	Noise nuisance at Morning nearby East Habour Crossing	Y	See complaint 442.	Closed
445	11-Jun-20	11-Jun-20 / Park Central	Resident of Park Central	Air	Pungent smell suspected coming from the work sites	Ν	See complaint 443B.	Closed
444	6-Jun-20	6-Jun-20 / Portion IX	Residents of Ocean Shores	Water	Flooding within work site and suspected muddy water spillage after downpour	Ν	The flooding is a normal phenonmenon as the site boundary have been embarked. The suspected muddy water is wide-spread among the open sea at TKO south and no exceedance of SS were recordede after the incident. The complaint is considered non-project-related and details shall be referred to CIR-W14.	Closed
443B	6 May 20	Non specific	Aponymous	Air/Noise	Odour nuisance nearby TKO MTR Station	Ν	The preliminary result showed no direct relationship between the nuisance and the construction works. The details shall be referred to CIR-A17.	Closed
443A	0-May-20	Non-specific	Anonymous	All/Noise	Noise nuisance at Night and Air Quality Impact from Works	Y	The complaint is considered non-project-related. There is no direct evidence showing the project site is the origin of the nuisance. The details shall be refered to CIR-C36	Closed
442	22-May-20	22-May-20 / LT Tunnel	Resident from Hong Pak Court	Noise	Noise nuisance from Tunnel Works	Y	The noise is believed to be breakin inside the tunnel. The CNP was compiled with and contractor is reminded to review breaking schedule to less sensitive hour. The details shall refer to CIR-N105.	Closed
441	8&9-Apr-20	9-Apr-20 / TKO surcharge area	Residents of Ocean Shores	Air/Noise	Noise Nuisance on early morning and Air Quality Works from Excavation Works	Y	The work schedule of C2 had been reviewed. The "beeping" noise is originated from C2 due to safety issue (for mobilization of materials with crane). The noise nuisance is believed to be coming from the vibration hammer. The Contractor had water the exposed area regular to reduce dust impact to the surrounding. The details shall be referred to CIR-C35	Closed
440	13&17-May-20	13-May-2020/Surcharge Area of TKO	Residents of Ocean Shores	Noise	Noise generation in early mornings of early May	Y	The work schedule of C2. C3 & C6 had been reviewed. The noise source is believed to be generated from C2 due to sheet-piling. The details shall be referred to CIR-N104.	Closed
439	7-Apr-20 & 24- Apr-20	April 2020 / Works area near Park Central (non- specific)	Residents of Park Central	Odour	Continuous diesel fuel odour nuisance near Park Central	Ν	No direct evidence proved that the odour source was originated from the work sites of TKOLTT. The details shall be referred to CIR-A16.	Closed
438	18-Apr-20	18-Apr-20 / Marine Works Area at TKO	Residents of Ocean Shores	Noise/ Light	Blasting, High Frequency Noise and Light in Tseung Kwan O	Y	The complaint was valid in regard of noise. Blasting had been carried out during the midnight and the Contractor is reminded to strictl follow requirements of CNP. The light source was originated from the construction vessels due to safety reason and guard watching. Details shall be referred to CIR-C34.	Closed
437	27-Mar-20	27-Mar-2020 / Surcharge Area (C2)	Resident of Ocean Shores	Noise	Low Frequency Noise during Midnight	Y	The noise source was the malfunctioned dewatering pumps. The details shall be referred to CIR-N103	Closed
436	26-Mar-20	26-Mar-20/ Portion IVC	District Council Member (Mr. Wong)	Noise	Noise nuisance, vibration and spectedly insufficient mitigation measures in Lam Tin	Y	See complaint #431-433.	Closed
435	23-Mar-20	23-Mar-20/ Lam Tin Tunnel	Resident of Cha Kwo Ling Village	Noise	Groundborne Noise from Blasting in the Evening	Y	Blasting was conducted at the time of complaint. The vibration monitoring conducted near Tin Hau Temple was considered the vibration level was acceptable. The details shall be referred to CIR-N102.	Closed
434	23-Mar-20	20-Mar-20/ Lam Tin	District Council Member (Mr. Wong)	Noise	Noise nuisance from Construction Works during Holiday	Y	See compliant #427.	Closed

Complaint	Received	Date/Location of	Complainant	Nature	Details of Complaint	Noise Action Level	Investigation/ Mitigation Action	Status
INO.	Date	Complaint				Exceedance		
433	20-Mar-20	20-Mar-20/ Lam Tin	Resident of Hong Pak Court	Noise	Noise nuisance, vibration and suspectedly insufficient mitigation measures in Lam Tin	Y	The time period and PMEs of major works conducted during daytime of the complaints, no non-compliance	
432	18-Mar-20	18-Mar-20 / Portion IVC	Resident of Yau Lai Estate	Noise	Noise nuisance, vibration and suspectedly insufficient mitigation measures in Lam Tin	Y	in CNMP and during site audits has been recorded. The Contractor is recommended to provide alternative noise mitigation measures such as acoustic box for noisy PMEs and regularly repair materials of the noise mitigation measures.	Closed
431	14-Mar-20	14-Mar-20 / Portion IVC	Residents of Yau Lai Estate	Noise	Noise nuisance, vibration and suspectedly insufficient mitigation measures in Lam Tin	Y	Details shall be referred to CIR-N101.	
430	17-Mar-20	17-Mar-20 / Surcharge Area / C2	Anonymous	Water	Muddy Water at the Surcharge Area	N	The "muddy water" was created by the tug boat's screw propeller. The Contractor claimed the propeller stirred up seedbed sediment and generated "muddy water". The details shall be referred to CIR-W13.	Closed
429	10-Mar-20	10-Mar-20 / Site Nearby Park Central	Resident of Park Central	Noise	Noise nuisance in early morning (Mar 2020)	Y	No construction works had been conducted at the time of complaint for C3 and the major works area in C2 was at least 300m away from the complainant. It is believed that the major noise source was coming from ASD's work site. The details shall be referred to CIR-N100	Closed
428	4-Mar-20	Not Specified / Tseung Kwan O	Mr. Lui, Sai Kung District Council	Odour / Noise	Odour and low frequency noise nuisance from construction site	Y	Only minor works had been conducted at the time of complaint. No direct evidence showed that the odour source was originated from C3. The suspected nuisance source is believed to be ASD's works area. The details shall be referred to CIR-C33	Closed
427	1-Mar-20	1-Mar-20 / Portion IVC	Resident of Yung Kai House	Noise	Noise nuisance from Construction Works during Holiday	Y	No construction works were conducted at the concerned locations and no direct evidence showing the complaint is project-related. The details shall be referred to CIR-N99	Closed
426	19-Feb-20	11-Feb-20 / Works area outside TKL Sports Centre	Anonymous		Noise nuisance from breaking works	Y	Refer to complaint #423 and #424.	Closed
425	18-Feb-20	29-Jan-2020 / Marine works Area	Mr. Chan from Ocean Shore		Noise nuisance from barge in morning	Y	No works had been conducted in the time period of complaint. The noise is believed to be non-project- related. The details shall be referred to CIR-N95.	Closed
424	11-Feb-20	8 and 11-Feb-2020 / Site near TKL Station	Resident of Park	Noise	Noise nuisence from breaking works	Y	The complaint was valid and the contractor had been operating only 1 breaker at a time. The contractor is suggested to further increase the mitigation measures to reduce impact to the surrounding neighborhood. The	Closed
423	3-Feb-20	03-Feb-2020 / Site Near TKL Station	Central		Noise nuisance noin oreaking works	Y	details shall be referred to CIR-N97	Closed
422	3-Feb-20	2-Feb-20 / Lam Tin Interchange	Resident of Cheuk Lai House, Yau Lai Estate		Noise nuisance suspected to be related to works involving metal hammering on Site near EHC	Y	No construction activities were conducted at the concerned locations during the period of complaint. The Contractor is reminded to keep conducting good site practice and strictly follows the requirements of approved CNP. The details shall be referred to CIR-N98	Closed

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421	21-Jan-20	21-Jan-20 / Portion IX	Ocean Shores Residents		Noise nuisance due to Blasting at midnight	Y	Blasting was conducted around 1:30am due to the vicinity of the Railway protection zone of MTR. The Contractor is reminded to keep the blast door closed during blasting to minimize noise impacts and re-schedule blasting to less sensitive hours as far as practicable. The details shall be referred to CIR-N96.	Closed
420	7-Jan-20	7-Jan-20 / Portion IX	Ocean Shores Residents		Irritating loud noise nuisance from Portion IX (C2)	Y	See complaint #417	Closed
419	7-Jan-20	Sundays before 7-Jan-20 / Tunnel Works	Resident of Hong Pak Court	Noise	Noise nuisance from Tunnel Works	Y	See Complaint #416.	Closed
418	7-Jan-20	5-6-Jan-20 / C1 Marine Works Area	Ocean Shores Residents		High-frequency noise during night- time	Y	The high frequency noise was believe to be noise emitted from the marine works area of C1. The details shall be referred to CIR-N94.	Closed
417	3-Jan-20	2-Jan-20 / Portion IX	Former District Member (Mr. Chan)		Annoying noise emission and inefficient noise mitigation measures	Y	The noise source is believed to come from a breaker and mitigation was insufficient. The Contractor was requested to strictly follow the Noise Mitigation Plan. The details shall be referred to CIR-N93.	Closed
416	29-Dec-19	29-Dec-19 / Non-specific	Resident of Hong Pak Court	Noise	Groundborne Noise from Works area	Y	Project-related with valid CNP. Contractor is reminded to reduce noise emission and prevent breaking and noisy activities during restricted hours. The details shall be referred to CIR-N92.	Closed
415	27-Dec-19	25-Dec-19 / Lam Tin Interchange (Portion IVC)	Resident of Yau Estate	Noise	Noise nuisance from Portion IVC	Y	Non project-related due to maintenance works of East Cross-harbor Tunnel. The details shall be referred to CIR-N91.	Closed
414	24-Dec-19	22-Dec-19 / Lam Tin Interchange (Portion IVC)	Resident of Yau Estate	Noise	Piling noise nuisance near Lam Tin Interchange	Y	Project-related with valid CNP. Contractor is reminded to reduce noise emission and prevent breaking and noisy activities during restricted hours. The details shall be referred to CIR-N91.	Closed
413	24-Dec-19	24-Dec-19 / Portion IX of Contract 2	Resident of Capri & Ocean Shores	Noise	Loud and continuous noise emission from Portion IX	Y	No breaking activity was conducted by the C3. It was believed that C2 was the major noise source and the mitigation measures were insufficient. The details shall be referred to CIR-C32.	Closed
412	19-Dec-19	14-Dec-19 / marine works area	Resident of Ocean Shores	Noise	Noise nuisance from the marine works area	Y	The major construction work was driven by pin piles. The noise emitted due to the construction activities is considered to be reduced to an acceptable level as no NSR falls under the ambit of 300m study area of the work site. Details should be referred to CIR-N90.	Closed
411	2-Dec-19	30-Nov-19 / Construction Sites Outside TKL Sports Center	Resident of Park Central	Air / Noise	Non-effective noise mitigation measures and related dust and noise nuisance	Y	The construction noise created by breaking works are considered non-project related due to the large separation distance between noise source and the Complainant's Location. Major dust emission from the works area next to C3 was recorded. The Contractor is reminded to provide regular watering to dusty works. Details should be referred to CIR-C31.	Closed
410	28-Nov-19	25-Nov-19 / Portion 4C	Anonymous	Noise	Noise nuisance from Lam Tin Works Area and operation hours	Y	Refer to Complaint #408	Closed
409	27-Nov-19	20&27-Nov-19 / Construction Sites near Po Yap Road & Chui Ling Road	Resident of Park Central	Air / Noise	Dust emission due to excavation works and noise nuisance from Piling works	Y	Although noise barrier had been erected and around the breakers, the direct line of sight to the NSRs at Park Central could not be totally blocked. The Contractor is recommended to provide cantilevered noise barrier with noise absorbing materials to minimise noise impact as far as practicable. Details should be referred to CIR-C31.	Closed
408	25-Nov-19	Non-specific (Nov-19) / Portion 4C	Resident of Yau Lai Estate	Noise	Serious Noise Nuisance from Lam Tin Works Area	Y	Despite the Contractor had applied different noise mitigation measures (e.g. semi enclosure and noise barrier). Environmental deficiency was observed during site audit session. The Contractor is recommended to apply alternative noise mitigation measures to improve the situation. The details shall be refer to CIR-N89.	Closed
407	12-Nov-19	Non-specific (Nov-19) / LT Construction Site	Non- specified(Complainan t has previously made complaints on LTI)	Operation Hours	Inquiries on operating hours & Noise Nuisance	N	The time of complaint falls under day-time. According to the Contractor and RE, the general starting time of construction works are 08:15 on normal week days. The Contractor had avoid conduct noisy works on morning to minimize noise impacts for the nearby residents. The details shall be refer to CIR-O3	Closed
406	5-Nov-19	5-Nov-19 / Tunnel near TKO	District Council Member (Mr. Chan)	Noise	Noise nuisance from Blasting activities during night-time	Y	No blasting was carried out on that night. The construction activities were conducted inside the tunnel with the blast door closed. The CNP that the Contractor held remained valid during the time of complaint. The details shall be refer to CIR-N88	Closed

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405	29-Oct-19	17-Oct-2019 / Marine Works area near Ocean Shore	District Council Member (Mr. Chan)	Noise	Daytime times noise nuisance	Y	The complaint details does not tally up with the information provided with the Contractor and RE. Referring to the Contractor, there was construction works was starting at 09:00. Noise mitigation measures, such as acoustic mats, were applied to minimize noise impact. The details shall be refer to CIR-N87	Closed
404	15-Oct-19	12-Oct-19 / Marine Works area near Ocean Shore	Residents of Ocean Shores	Noise / Working Hours	Noise nuisance due to operation of barge on Saturday early morning	Y	The time of complaint falls within daytime and the major works conducted are dredging and reclamation. The contractor did not require any extra mitigation measures. The contractor had applied sound-proofing mat on the engine floor of the barges and is recommended to strictly follow the requirements of noise mitigation plan. The details shall be refer to CIR-N86	Closed
403	15-Oct-19	Oct-19 (Not Specified) / C2 Construction Site	Residents of Ocean Shores	Noise / Working Hours	Operation of marine construction works during late hours	Y	The major construction works is trimming works for the rock mount during the time period of complaint. Mitigation measures provided by the Contractor included provision of noise insulating mats to the engine floor of the barges and shorten the work hours by ending construction works on or before 21:00 since early Oct 2019. Details shall be referred to CIR-N85.	Closed
402	10-Oct-19	09-Oct-2019/ Site near TKO CPC	Residents of Ocean Shores	Noise	Noise nuisance of construction works at marine work area during early morning	Y	No construction activity at both the Cavern near the BCMCP Bridge and Platform 1B, including the barge, in particular during the complaint period between 2am and 3am on 9 Oct 2019. Since no works had conducted during the time of complaint, no mitigation measures are required. The details shall be referred to CIR-N84.	Closed

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401	5-Oct-19	05-Oct-2019 / C2 Portion IX	District Council Member (Mr. Chan)	Noise	High noise level from works area during daytime	Y	The time period of complaint falls under day-time and therefore the Contractor is required to carry out mitigation measures according to the latest CNMP only. The construction activities had been reviewed and no non-compliance was identified. No Limit Level of Exceedance at daytime was recorded during October 2019. For mitigation measures, the Contractor had set up sound-proofing mats and SlientUp to reduce noise impact. The details shall be refer to CIR-N83.	Closed
400	16-Sep-19	10-Sep-19 / TKO Marine Works Area	District Council Member (Mr. Chan)	Water	Muddy water discharge and deficiency in water quality mitigation measures	N	With accordance to the Contractor and RE, the silt curtains were deployed regarding to SCDP ver. 8 since 10- Sep-19, site inspection on 12-Sep-19 also showed the silt curtains were deployed properly. Despite there are chances of accidental muddy water discharge due to the removal of cofferdam on 13-Sep-19, local silt curtain had been place in order to minimize the unavoidable impact by related loading and unloading of fill materials. No muddy water had been observed outside the silt curtain area. Nevertheless, the Contractor is recommend to expand the coverage of the local silt curtain in order to well-confine the muddy water released from the grab. On top of that, the Contractor shall always follow the SCDP to ensure the minimization of impacts. Details should be referred to CIR-C30.	Closed
399	16-Sep-19	16-Sep-19 (Not Specified) / LT Interchange Potion III	Resident of Bik Lai House, Yau Lai Estate	Noise	Noise emission from the tunnel entrance (Potion III)	Y	No construction works was carried out during the time of complaint. Details should be referred to CIR-N82.	Closed
398	16-Sep-19	13-Sep-19 / Works Area of LT-TKO Tunnel outside Tiu King Leng MTR Station	Anonymous	Air / Water	Dark smoke emission and muddy water discharge from the marine work vessels near shore	N	No dark smoke emission was observed during the site inspection conducted in the week of the complaint. The Contractor has applied an air filtering tank to clean the exhaust from the barge before emission. Details should be referred to CIR-C30.	Closed
397	6-Sep-19	30 Aug-19 / Works area near Ocean Shores	Resident of Ocean Shores	Noise / Working hours	Noise emitted from Barge during Evening times	Y	The unloading works had been reviewed and no limit level of exceedance were recorded during August to early September. Since the period of complaint falls under evening times, no mitigation measures were required by the CNP. Details should be referred to CIR-N81.	Closed
396	6-Sep-19	30 Aug-19 / Works area near Ocean Shores	Resident	Noise	Noise nuisance from LT-TKO Tunnel	Y	The main works conducted wars charterating muching out maintaining, deilling and uploading. No limit	Closed
395	6-Sep-19	31 Aug-19 / Works area near Ocean Shores	District Council Member (Mr. Chan)	Noise	Noise Nuisance during evening and night times	Y	live major works conducted were snortcreing, mucking out, maintaining, drilling and unloading. No limit level of exceedance in the restricted hours (19:00-23:00) between late August and early September were recorded. The Contractor is recommended to keep following noise mitigation plan to minimize noise muicance. Details chould be referred to CIP. NS0.	Closed
394	6-Sep-19	Not specified (Sep-19) / Works area near Ocean Shores	Anonymous	Noise / Operating Hours	Noise nuisance during Evening & occasionally in Night time	Y	nuisance. Details should be feferred to CIX-1000.	Closed

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393	30-Aug-19	30 Aug-19 / Marine works Area	District Council Member (Mr. Chan)	Water	Alleged muddy water discharge	Exceedance N	High rainfall was recorded during period of complaint, therefore muddy water discharge at outfall from upstream and some surface runoff within the site is expected. However, no major silt curtain deficiency was observed during on-site observation and no leakage of muddy water from the marine works area was observed. Details should be referred to CIR-W12.	Closed
392	29-Aug-19	20-27 Aug-19/ Portion 4C	Resident of Bik Lai House, Yau Lai Estate	Noise	Noise nuisance from the operation of heavy machineries and missing of noise mitigation measures at Portion 4C	Y	A noise insulating cover was erected before the period of complaint, however, due to restricted site condition in the relocated breaking works area, the erection of the cover could not be carried out. Nevertheless, movable noise barriers and local semi-enclosure was adopted for breaking works. Details should be referred to CIR-N79.	Closed
391	26-Aug-19	10-Jul-19 / Construction site near Ocean shore	District Council Member (Mr. Chan)	Noise	Operation of construction works during late hours	Y	1 derrick barge was operated during the period of complaint with valid CNP. Regular maintenance and checking should be conducted for all operating barges. Details should be referred to CIR-N78.	Closed
390	26-Aug-19	31-Jul-19 / Construction site near Ocean shore	District Council Member (Mr. Chan)	Noise	Intermittent noise emitted from collision during night-time	Y	The noise source is suspected to be the collision between cofferdam and its broken part as the cofferdam was found damaged next morning. No construction was conducted at night time of 31 July. The contractor is recommended to maintain and check cofferdam regularly. Details should be referred to CIR-N77.	Closed
389	29-Jul-19	17 to 24-Jul-19 / Marine Construction Site near O King Road	Resident of Ocean Shore	Noise	Noise nuisance from the barge operating in reclamation works area near O King Road during evening times.	Y	1 derrick barge was operated during the period of complaint with valid CNP. Regular maintenance should be provided for all operating barges. Details shall refer to CIR-N76.	Closed
388	12-Jul-19	8-Jul-19 / Construction Site near Ocean Shores	District Council Member (Mr. Chan)	Noise	Noise nuisance and inadequate noise barrier at the construction site near Ocean shore	Y	Although Contractor has adopted a noise mitigation measure of drill rigs at Portion IV near Ocean Shore such as noise barrier with sound insulating fabric, the existing noise barrier in Portion IX and some in Portion IV are not adequate in screening the direct line of sight to Ocean Shore. Details should be referred to CIR-N75.	Closed
387	12-Jul-19	8 to 12-Jul-19 / Portion 4C of C1 Construction Site	Resident of Bik Lai House	Noise	Breaking noise emitted from the operation of 2 PMEs at Portion 4C during weekday daytime.	Y	Two breakers were operated intermittently at the Portion 4C of C1 construction site during the period of complaint between 07:00 to 19:00. As observed during the site inspection/noise monitoring, movable noise barrier could not completely screen off the direct line-of-sight from PMEs to Yau Lai Estate. Contractor has adopted mitigation measure to minimize the noise impact from breakers including using a noise barrier with noise insulating fabric, adopted a less noisy hydraulic spiting method for breaking works and has been developing a semi-enclosure noise barrier to replace the existing movable noise barrier. Details should be referred to CIR-N74.	Closed
386	10-Jul-19	9 to 10-Jul-19 / Not Specific	District Council Member (Mr. Chan)	Noise	Noise nuisance and disturbance from the TKOLT tunnel construction site involves intermittent noise emitted from collision during night-time.	Y	No construction works was carried out during the time of complaint. Details should be referred to CIR-N73.	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
385	4-Jul-19	Late Jun-19 to 4-Jul-19 / Reclamation Area	Resident of Ocean Shore	Noise	The reclamation works continued into the evening during weekdays and works were also operated on Sunday.	Y	See Complaint no 384.	Closed
384	3-Jul-19	3-Jul-19 / Near Ocean Shore	District Council	Noise	The construction site was constantly emitting metallic percussion noise in the early morning.	Y	The concerned metallic percussion noise source was suspected from the collision between the detached sheet pile and the adjacent sheet pile of the broken cofferdam. The detached sheet pile was fixed by re-sealing it to the adjacent sheet pile. Details should be referred to CIR-N72.	Closed
383	29-Jun-19	Jun-19 / Lam Tin Interchange	Resident of Yau Lai Estate, Yung Lai House	Noise	Noise nuisance from construction works during weekday daytime and evening times. Noise barriers was found missing in certain parts of the construction areas.	Y	Some noise mitigation measures were observed during the site inspection including idle equipment were turned off and noise barrier has been erected close to noisy PMEs in the right direction facing Yau Lai Estate. However, the above mitigation measures were not applied to whole construction site such as noise barriers were not placed close enough to the noisy PMEs due to the uneven surface and other inconvenience. Details should be referred to CIR-N71.	Closed
382 (N08/RE/000110 19-19)	17-Jun-19	6-Jun-19 / Cofferdam area	District Council	Air	Dark smoke nuisance from the tug boat inside the cofferdam area.	N	During site audit, no violation of the Air Pollution Control (Smoke) Regulation from the construction site was observed by the ET. Air filter has been replaced on derrick barge to reduce the dark smoke emission upon the receipt of the complaint. The Contractor is recommended to replace the air filters regularly. Details should be referred to CIR-A15.	Closed
381 (N08/RE/000150 98-19)	11-Jun-19	l-Jun-19 / Near confferdam	District Council	Water	Muddy water discharge from construction site near the cofferdam area on 4 June 19	N	High volume of upstream muddy water was collected due high rainfall according to reports and observation. As a result, the muddy water from upstream was discharged into the Junk Bay via various outfalls in Junk Bay, as observed during the rainstorm events. No sand plume within the cofferdam area and no muddy water discharge at the designated discharge point within the Site was identified during the site inspection and water quality monitoring. Details should be referred to CIR-W11.	Closed
380	11-Jun-19	6-Jun-19 / Near Tong Yin Street	Resident of Ocean Shore	Air	Odour nuisance from construction site near Tong Yin Street	Ν	No oil leakage from mobile crane was observed during the site inspection in June 2019. According to the testing reports, all ULSD fuel applied in the PMEs during the construction period contains sulphur content lower than 0.005% by weight, which complied with the Air Pollution Control (Fuel Restriction) Regulations. Details should be referred to CIR-A14.	Closed
379	11-Jun-19	4-Jun-19 / Near cofferdam area	General Public	Water	Discharge of mud water into Junk Bay from TKOLT construction site	N	See Complaint no 381.	Closed
378	11-Jun-19	13-Apr-19 / Near cofferdam area	General Public	Air	Dark smoke nuisance from construction site involves derrick barge operation near cofferdam area (daytime)	Ν	No violation of the Air Pollution Control (Smoke) Regulation was recorded from the construction site was observed. The contractor was recommended to install carbon filter at smoke exhaust of the barge as a more effective mitigation measures. Details should be referred to CIR-C27.	Closed
377	11-Jun-19	2-Jun-19 / Lam Tin Interchange	General Public	Noise	Complaint about the noise nuisance from Lam Tin Interchange construction site in daytime holiday.	Y	Only drilling works inside the tunnel was conducted during daytime under valid CNP. Groundborne noise is considered as the major factor contributing to the noise nuisance, the Contractor are recommended to reschedule the drilling works inside the tunnel to less sensitive hours. Details should be referred to CIR-N70.	Closed
376	11-Jun-19	9-Jun-19 / Near Yau Lai Estate	Resident of Yau Lai Estate	Noise	Complaint about the noise nuisance near Yau Lai Estate involves vehicle movement (roller) during morning to 15:00 in holiday.	Y	No works involving roller was involved. Only drilling works inside the tunnel and ddismantling of crusher shelter was conducted during Sunday daytime under valid CNP. Groundborne noise is considered as the major factor contributing to the noise nuisance, the Contractor are recommended to re-schedule the drilling works inside the tunnel to less sensitive hours. Details should be referred to CIR-N70.	Closed
375	11-Jun-19	9-Jun-19 / Lam Tin Interchange	Resident of Yau Lai Estate	Noise	Complaint about the noise nuisance from Lam Tin Interchange construction site in daytime holiday.	Y	See Complaint no. 376.	Closed
374	4-Jun-19	3-Jun-19 / Near Ping Tin Estate	Resident of Ping Sin House in Ping Tin Estate	Noise	Vibration from the construction of Lam Tin Interchange in evening time at around 20:00	Y	Groundborne noise is considered as the major factor contributing to the noise nuisance. The reverse circulation drilling works may have emitted groundborne noise, however, only 1 unit was used in Portion II. Therefore, blasting is considered as the major cause for the vibration. Details should be referred to CIR-N69.	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
373	4-Jun-19	2-Jun-19 / Near ocean Shore	Resident of Ocean Shore	Noise	Complaint about the noise nuisance from the construction site near Ocean Shore and the construction site operation in day time holiday.	Y	No construction activity was conducted at the time of complaint as confirmed by Engineer. Therefore, the noise nuisance was not due to the construction site. Details should be referred to CIR-N68.	Closed
372	4-Jun-19	1-Jun-19 / Near ocean Shore	Resident of Ocean Shore	Others	Complaint about the construction site operation in the early morning on Saturday.	N	See Complaint no. 373.	Closed
371	30-May-19	30-May-19 / Near Ocean Shore	Resident of Ocean Shore	Noise	Noise nuisance from construction site near Ocean Shore during night time.	Y	See Complaint no. 373.	Closed
370 (N08/RE/000150 98-19)	29-May-19	19 & 26-May-19 / Near Ocean Shore	Resident of Ocean Shore	Noise	Noise nuisance about dredging mud and loudspeaker in the construction site near Ocean Shore during daytime holiday.	Y	Noise barriers/ Noise absorptive materials have been used to mitigate the noise generated from the construction works. Only walkie-talkies were used for communication in the construction site. Details should be referred to CIR-N67.	Closed
369	13-May-19	Not specific / Lam Tin interchange	Resident of Yau Lai Estate	Noise	Noise nuisance from the blasting work inside tunnel which involves explosion noise impact during midnight	Y	Contractor has adopted a mitigation measure for reduce the blasting noise impact from the tunnel such as blasting doors and did not conduct blasting works during mid-night blasting since mid-May 2019. Details should be referred to CIR-N66.	Closed

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Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
368	19-May-19	19-May-19 / Near cofferdam area	General Public	Noise	Noise nuisance from barge with in cofferdam area in daytime holiday	Y	See Investigation / Mitigation Action for complaint no. 361.	Closed
367	5-May-19	5-May-19 / Lam Tin Tunnel - TKO entrance	Resident near Lam Tin Tunnel - TKO entrance	Noise & Air	Noise and air nuisance from construction near Lam Tin Tunnel - TKO entrance	Y	The major works during the period of complaint is scaling by breaker on day time holiday (Sunday). The works is compiled with CNP and no air quality action and noise limit level exceedance during the monitoring. Regarding the existing air quality mitigation measures, the water spray for the breaker was insufficient and the dust emission during unloading of dusty materials was observed. As the review of exiting noise mitigation measure, a broken noise SilentMat was found on the hammer of breaker. According to the above observation, Contractor has adopted serval improvement such as conduct a sufficient water spray during breaking and unloading materials, replaced the noise SilentMat of the breaker and placed the noise barrier between PME and NSRs. Details should be referred to CIR-C29.	Closed
366	4-May-19	4-May-19 / Lam Tin Interchange	Resident of Ping Tin Estate	Noise	Noise nuisance from construction of Lam Tin Interchange in daytime.	Y	Regarding the observation during site inspection, the hammer of the breaker was surrounded by a broken noise absorption material and a noise barrier of a driller was placed in the incorrect direction of NSRs. Contractor has improved the above mitigation measures including replaced the noise absorption materials and relocated the noise barrier to facing the NSRs. Details should be referred to CIR-N65.	Closed
365	1-May-19	1-May-19 / Lam Tin Interchange	Resident of Ping Tin Estate	Noise	Noise nuisance from construction of Lam Tin Interchange in daytime.	Y	See investigation / mitigation actions for Complaint No.366	Closed
364	1-May-19	1-May-19 / Lam Tin Interchange	Resident of Ping Tin Estate	Noise	Noise nuisance from construction of Lam Tin Interchange in daytime	Y	See investigation / mitigation actions for Complaint No.366	Closed
363	30-Apr-19	6th – 22th April -19 / Lam Tin Interchange	Resident of Ping Tin Estate	Noise	Noise nuisance from construction of Lam Tin Interchange in daytime and evening time	Y	See investigation / mitigation actions for Complaint No.366	Closed
362 (N08/RE/000133 96-19)	8-May-19	7-May-2019 / Junk Bay	District Council	Noise	Noise nuisance from marine works in the Junk Bay in the night-time (06:45)	Y	No marine works in the Junk Bay was conducted as confirmed by RE. No CCTV footage was recorded during the time of complaint. It was suggested that Contractor should conduct 24 hours CCTV monitoring. Details should be referred to CIR-N64.	Closed
361	7-May-19	28 Apr 2019 / Cofferdam Area	General Public	Noise	Noise nuisance from construction site at cofferdam area in holiday	Y	The reclamation works involves barges during the time of complaints has been compiled with the CNP. As review of existing mitigation measure, the sound proofing canvases for the barges were hanged up. Details should be referred to CIR-N63.	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
360	2-May-19	27-04-2019/ Construction in Tong Tin Street	General Public	Noise	The complaint about the noise nuisance from cofferdam area during daytime and evening-time.	Y		Closed
359	30-Apr-19	30-04-2019/ Near Ocean Shore	Resident of Ocean Shore	Noise	The complaint about the noise nuisance involve percussion noise near Ocean Shore during daytime.	Y		Closed
358	30-Apr-19	27-04-2019/ Near cofferdam area	General Public	Noise	The complaint about the noise nuisance during evening time.	Y	The light source was found from the lighting of derrick barge within the cofferdam area and the noise source	Closed
357	23-Apr-19	20-04-2019/ Near cofferdam area	General Public	Noise	The complaint about the noise nuisance near cofferdam area during daytime.	Y	derrick barge was hanged up but no light mitigation measure. Details should be referred to CIR-C28.	Closed
356	23-Apr-19	19-04-2019/ Near cofferdam area	General Public	Noise	The complaint about the noise nuisance near cofferdam area during holiday.	Y		Closed
355	17-Apr-19	17-04-2019/ Near cofferdam area	General Public	Noise & light	The complaint about the noise nuisance and light pollution near cofferdam area during evening-time.	Y		Closed
354	30-Apr-19	20 Apr 2019 / Cofferdam Area 19 Apr 2019 / Cofferdam Area 15 Apr 2019 / Cofferdam Area 07 Apr 2019 / Cofferdam Area 31 Mar 2019 / Cofferdam Area	Resident of Ocean Shore (Mr. Chan)	Others	The construction site near O King Road is operated in holiday during day-time and weekday during night- time.	N	The marine reclamation works at the Portion IX in C2 construction site was the major construction activity during the period of complaints. The concerned reclamation works is compiled with the relevant CNP. Details should be referred to CIR-O2.	Closed
353	13-Apr-19	13-04-2019/Cofferdam Area	Resident of Ocean Shore (Mr. Chan)	Air	According to the complainant, large amount of smoke and exhaust was seen emitting from barges working within the cofferdam	N	See Investigation / Mitigation Action for complaint no. 329.	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
352	13-Apr-19	13-04-2019/Cofferdam Area	Resident of Ocean Shore	Noise	The complainant complained about the noise nuisance from the cofferdam area in Tiu Keng Leng during day-time.	Y	The major works during the time of complaints was a crawler crane unloading H piles to the Portion V of C2	Closed
351	13-Apr-19	13-04-2019/Cofferdam Area	Resident of Ocean Shore	Noise	The complainant complained the noise nuisance from the cofferdam area in Tiu Keng Leng during day- time.	Y	should be referred to CIR-N62.	closed
350	8-Apr-19	07 Apr 2019 / Cofferdam Area in TKO	-	Air & Others	The complainant complained the dark smoke generation and the construction works from the cofferdam area in Tiu Keng Leng during holiday.	Ν		Closed
349	7-Apr-19	07-04-2019/Cofferdam Area	Resident of Ocean Shore	Air	Dark smoke generation from the cofferdam area in Tiu Keng Leng during day-time.	Ν	See Investigation / Mitigation Action for complaint no. 329.	Closed
348	2-Apr-19	02 Apr 2019 / LTT-TKO	-	Others	The complainant complained the LTT construction site was working during holiday.	Ν		Closed
347	1-Apr-19	01 Apr 2019 / Cofferdam Area	Resident of Ocean Shore	Noise	Percussive noise from the cofferdam area in Tiu Keng Leng during day- time.	Y		Closed
346	31-Mar-19	31st March 2019 / Construction of Road P2	District Council	Others	Complaint about the construction site operation of Road P2 in day time holiday	Ν	A tug boat and a derrick barge were operated for the marine reclamation work within the cofferdam area during the time of complaint. As the review of relevant CNP, no violation was observed. Details should be referred to CIR-O1.	Closed
345	26-Mar-19	26th March 2019 / Construction of Road D4	Resident of Park Central	Noise	Complaint about the noise nuisance in day time.	Y	See Investigation / Mitigation Action for complaint no. 329.	Closed
344	28-Mar-19	26th March 2019 / Construction of Road P2	District Council	Noise	Complaint letter received regarding noise nuisance and dark smoke generation from the marine barges	Y	See Investigation / Mitigation Action for complaint no. 378.	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
343	25-Mar-19	25th March 2019 / Construction of Road D4	Resident of Park Central	Noise	Complaint about the noise nuisance sound like a breaking works in day time.	Y	See Investigation / Mitigation Action for complaint no. 329.	Closed
342	25-Mar-19	24th March 2019 / Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complaint about the noise nuisance from the construction of Lam Tin Interchange in day time hoilday (Sunday). The noise monitoring was conducted in Hong Nga Court by staff after the complaint and the noise level is result in acceptable level, but the complainant replied that the noise monitoring is meaningless and the noise nuisance is not acceptable for her.	Y	See Investigation / Mitigation Action for complaint no. 330.	Closed
341	24-Mar-19	24th March 2019 / Lam Tin Interchange	Management Section of Hong Nga Court	Noise	Complaint about the noise nuisance from Lam Tin Tunnel construction works in day time.	Y		Closed
340	24-Mar-19	24th March 2019 / Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complaint about the noise nuisance from the construction site day time holiday (Sunday).	Y		Closed
339	21-Mar-19	21st March 2019 / Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complaint about the construction noise nuisance involving percussive noise in early morning (07:00)	Y		Closed
338	21-Mar-19	21st March 2019 / Construction of Lam Tin Interchange	Resident of Ocean Shore	Noise	Construction noise	Y	See Investigation / Mitigation Action for complaint no. 323.	Closed
337	20-Mar-19	19th March 2019 / Construction of Road D4 and Footbridge between Tiu Keng Leng Sport Centre and Park Central	Resident of Park Central	Noise	Complaint about the noise nuisance from the construction vehicle near Park Central in night time.	Y	See Investigation / Mitigation Action for complaint no. 329.	Closed
336	20-Mar-19	20th March 2019 / Construction of Road P2	Resident of Park Central	Noise & Pest	Complaint about the noise and pest nuisance from the construction site near Park Central in evening time.	Y		Closed
335	19-Mar-19	19th March 2019 / Construction of Road P2	Resident of Ocean Shore	Noise	Construction noise nuisance from reclamation works near the TKO- LTT reclamation site during the evening time (19:00-23:00).	Y		Closed
334	19-Mar-19	19th March 2019 / Construction of Road P2	District Council	Noise	Construction noise nuisance from the TKO-LTT reclamation site during evening time (after 19:00).	Y	See Investigation / Mitigation Action for complaint no. 323.	Closed
333	19-Mar-19	18th - 19th March 2019 / Construction of Road P2	Resident of Ocean Shore	Noise	Construction noise nuisance from construction noise in evening time (around 20:30).	Y		Closed
332	18-Mar-19	18th March 2019 / Construction of Lam Tin Interchange	Resident of Yau Lai Estate	Noise	Complaint about the noise nuisance during day time, evening time and night time.	Y		Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
331	18-Mar-19	18th March 2019 / Construction of Lam Tin Interchange	Resident of Hong Pak Court	Noise	Complaint about the noise nuisance in night time and the past few days. (Before 07:00)	Y	was recorded. During the site inspection, no noise barriers were erected between noisy PMEs and NSRs at LTI. Regarding the observation in the inspection, Contractor has adopted an improvement such as placed the noise barriers between the PMEs and NSRs to reduce noise nuisance. Details should be referred to CIR-NG1.	Closed
330	17-Mar-19	17th March 2019 / Construction of Lam Tin Interchange	General Public	Noise	Complaint about the noise nuisance from in night time holiday.	Y	noise barrens between the ranges and rish is to reduce noise nuisance. Details should be referred to ear room	Closed
329	15-Mar-19	15th March 2019 / Construction of Road D4	Resident of Park Central	Noise & Air	Complaint about the noise from the construction works and the odour nuisance involves engine oil from construction machine	Y	The construction activities in the complaint dates are compiled with the CNMP. No noise and air quality limit level exceedance were recorded. Contractor had implemented the mitigation measures for the noise and odour nuisances including acoustic mat was erected between the PME and NSR, ultra-low sulphur diesel was applied as fuel oil in PME and general refuses were disposed properly. Details should be referred to CIR- C26.	Closed
328	14-Mar-19	9th March 2019 / Construction Site of Footbridge between Tiu Keng Leng Sport Centre and Park Central	Resident of Park Central	Noise	Complaint about the noise nuisance involve drilling work in the day time (08:00).	Y	A formation works was conducted in 7 am to 7pm on 9 Mar 2019. No noise limit level exceedance was recorded in the nearest noise monitoring result. However, there was no any adoption of mitigation measure to minimize the noise nuisance from the site. As response the received complaint, the contractor should place the noise barrier between the PMEs and NSR. Details should be referred to CIR-N58.	Closed
327	13-Mar-19	13th March 2019 / Construction of Lam Tin Interchange	Resident of Bik Lai House	Noise	Noise nuisance suspected from the construction works involving chiseling during evening time (22:07).	Y	A handing processed rock at Lam Tin Interchange was conducted on the complaint date in 7 pm to 11 pm involving dump truck and excavator which construction activities was compiled with the CNP. No noise limit level exceedance was record in the evening time monitoring. However, the noise barrier was not placed in the direction of the Yau Lai Estate during breaking works, the contractor had implemented a mitigation measure such as placed the noise barrier to reduce noise level from the breaker but the noise barrier was far from the concerned breaker. Details should be referred to CIR-N59.	Closed
326	13-Mar-19	13th March 2019 / Construction of Road P2	Resident of Ocean Shore	Noise	Noise nuisance suspected from marine works near Ocean Shores in the day time (16:30)	Y	See Investigation / Mitigation Action for complaint no. 322.	Closed
325	9-Mar-19	9th March 2019 / Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complaint about the noise nuisance involve machine and percussive noise in night time (02:00 -03:00).	Y	Only drilling works were conducted inside the tunnel in early morning under valid CNP. Groundborne noise is considered as the factor that contributes to the noise nuisance. The Contractor is recommended to reschedule drilling works to less sensitive hours. Details should be referred to CIR-N56.	Closed
324	7-Mar-19	7th March 2019 / Construction of Lam Tin Interchange	Resident of Hong Pak Court	Noise	Complaint about the noise nuisance involving chiseling noise from the construction site near Hong Pak Court during day time and evening time in the past few months.	Y	Only drilling works were conducted inside the tunnel in early morning and daytime under valid CNP. Groundborne noise is considered as the factor that contributes to the noise nuisance. The Contractor is recommended to reschedule drilling works to less sensitive hours. Details should be referred to CIR-N56.	Closed
323 (EPD- N08/RE/000065 23-19)	4-Mar-19	4th March 2019/ Cofferdam Area	Resident of Ocean Shore	Noise	Construction noise (Evening time)	Y	Only 1 derrick barge and a tug boat was used in the evening time under valid CNP. No Limit Level Exceedances were recorded at Station CM6(A) during evening time. Acoustic mat should be used to screen the engine of the barge to reduce the noise nuisance from the reclamation works. Lubricants should be applied to the barge to reduce the noise emission during barge movement.	Closed
322	13-Mar-19	1st March 2019 / Construction of Road P2	Resident of Ocean Shore	Noise	Noise nuisance suspected from a yellow excavator near Ocean Shores in day time (15:44).	Y	No noise limit level exceedance was recorded and the number of operating PMEs complied with the CNMP. The sound proofing canvases were not always adopted as a mitigation measure to screen the noise emitted from the engine of the barge. Contractor should adopt the aforementioned mitigation measures as far as practicable. The contractor was also be recommended to enhance the mitigation measure including frequently checking the noise barriers/sound proofing canvases, frequent checking and repair the gaps or broken acoustic sheets and continue to strictly follow the requirements in the approved CNMP.	Closed
321	28-Feb-19	28th February 2019 / Construction of Lam Tin Interchange	Management Section of Yau Lai Estate	Noise	Construction noise (Night time)	Y	Only drilling works were conducted inside the tunnel in early morning under valid CNP. Groundborne noise is considered as the factor that contributes to the noise nuisance. The Contractor is recommended to reschedule drilling works to less sensitive hours. Details should be referred to CIR-N55.	Closed

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320	22-Feb-19	22nd February 2019 / Construction of Lam Tin Interchange	Resident of Hong Pak Court	Noise	Complaint about the noise nuisance involving percussive noise in early morning (Day time). Complainant said the construction should be operated after 08:00.	Y		Closed
319	21-Feb-19	21st February 2019 / Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complaint about the noise nuisance involving percussive noise in night time	Y	See Investigation / Mitigation Action for complaint no. 313.	Closed

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318	21-Feb-19	21st February 2019 / Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complaint about the noise nuisance involving percussive noise from the construction in night time	Y		Closed
317	25-Feb-19	23th February 2019 / Construction of Road P2	Resident in O King Road	Air	Complained about the odour nuisance of petroleum smell	Ν		Closed
316	18-Feb-19	18th February 2019 / Construction of Road P2	Resident in O King Road	Air	Complaint about the dark smoke and odour nuisances	Ν	See investigation/ Mutigation Action on Complaint no.294. Details should be referred to CIR-A12.	Closed
315	17-Feb-19	15th February 2019 / Construction of Lam Tin Interchange, Road P2 and Tseung Kwan O Interchange	General Public	Noise	Complained about construction noise (Daytime)	Y	The metal wire used for anchoring the barge inside the cofferdam area are the source for the noise nuisance. Ropes were used to replace metal wire to reduce noise nuisance from metal collision while mooring boats. Details should be referred to CIR-N54.	Closed
314	17-Feb-19	16th February 2019 / Construction of Lam Tin Interchange	Resident of Yau Lai Estate	Air	Dust nuisance suspected from the construction works and absence of water spraying near Lam Tin Interchange in daytime.	Ν	No Air Quality action level or limit level exceedance during the monitoring conducted by ETL. Contractor had implemented mitigation measure to reduce and prevent dust emission including conducted water sprays and covered the cement bags. Details should be referred to CIR-A13.	Closed
313	17-Feb-19	17th February 2019 / Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Construction noise nuisance from the drilling and breaking works at Branch Tunnel in the morning (Day time)	Y	Breaking and drilling works were conducted during the time of complaint. The breakers were often seen wrapped with acoustic mat, however, they are easily damaged during the breaking works. Noise barrier are more effective in reducing the noise nuisance than the acoustic mat, but the erection of noise barrier are not often adopted properly to screen the noise from the NSR due to the additional works involved and the landform on site. Groundborne noise could also be a factor contributing to noise nuisance. Details should be referred to CIR-N53.	Closed
312	16-Feb-19	16th February 2019 / Construction of Lam Tin Interchange	District Council	Noise	Complained about the explosion noise (Daytime)	Y	No exceedances were recorded and recommendation were made to further enhance the mitigation measures, such as regularly and reviewing the noise control activities that are being carried out on site regularly to ensure compliance with statutory requirement, provide training for the workers to prevent unnecessary noise disturbance and frequently check and maintain the absorptive lining adhered on blasting doors on a regular basis.	Closed
311	15-Feb-19	15th February 2019 / Construction of Lam Tin Interchange	Public	Noise	Complained about the explosion noise (Daytime)	Y	See Investigation / Mitigation Action for complaint no. 312.	Closed
310	14-Feb-19	14th February 2019 / Construction of Lam Tin Interchange	Resident of Yau Lai Estate	Noise	Construction noise nuisance about the rock handling work at LTI (Daytime)	Y	Dump truck and excavator was used to transfer crushed rocks from the crusher with valid CNP. Additional	Closed
309	13-Feb-19	13th February 2019 / Construction of Lam Tin Interchange	Resident of Yau Lai Estate	Noise	Construction noise nuisance about the rock handling work at LTI (evening time)	Y	sight from the NSRs to the site. Details should be referred to the CIR-N51.	Closed
308	13-Feb-19	1th - 13th February 2019 / Construction of works at the TKO-Lam Tin tunnel	Management Section of Kwong Tin Estate	Noise	Complaint about construction noise (Night time)	Y	See Investigation/ Mitigation Action on Complaint no.302. Details should be referred to CIR-N48.	Closed
307	13-Feb-19	13th February 2019 / Construction at Tsueng Kwan O (C1)	Resident of Ocean Shore	Noise	The complaint about the noise nuisance in day time	Y	Noise nuisance was originated from the beeping noise emitted during vehicle reversing of the loader. The total length of beeping noise should be less than 5 mins. The reverse alarm system is a necessary safety measure that cannot be revoked. Details should be referred to CIR-N50.	Closed
306	13-Feb-19	13th February 2019 / Construction of works at the TKO-Lam Tin tunnel	Resident of Hong Nga Court	Noise	Noise nuisance suspected from the construction works involving chiseling noise in night time	Y	See Investigation / Mitigation Action on Complete the 202 Datails should be referred to CID M49	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/Mitigation Action	Status
305	12-Feb-19	12th February 2019 / Construction of works at the TKO-Lam Tin tunnel	Resident of Hong Nga Court	Noise	Noise nuisance suspected from the construction works involving chiseling noise in night time.	Y	See investigations whitigation Action on Complaint no.302. Deans should be referred to Chevreto.	Closed
304	8-Feb-19	8th February 2019 / Construction of Road P2 and Associated Works	Resident of Ocean Shore	Noise	Noise nuisance suspected from marine works near Ocean Shores in the day time	Y	There were two construction activities in the site including dredging and trimming in day time on 8 Feb 2019. Details should be referred to CIR-N49.	Closed
303	2-Feb-19	27th January - 2nd February 2019 / Construction of works at the TKO-Lam Tin tunnel	Resident of Ping Tin Estate	Noise	Noise nuisance suspected from the construction works involving chiseling noise during day time, evening time and night time.	Y	Project-related. The following recommendations were made to further enhance the mitigation measures: Frequent checking and repair the gaps or broken acoustic sheets; Replace any broken SilentMat for wrapping the breaker head; To adopt Cantilever noise barriers at Lam Tin Interchange to screen noise effectively;	Closed
302	2-Feb-19	27th January - 2nd February 2019 / Construction of works at the TKO-Lam Tin tunnel	Resident of Hong Pak Court	Noise	Noise nuisance suspected from the construction works involving chiseling noise during day time	Y	 The deployment of Cantilever noise barrier should screen the line-of-sight from sensitive receivers; To continue to strictly follow the requirements in the approved CNMP; To conduct an ad hoc ground-borne noise monitoring with the coordination of the Engineer; and Engineer should monitor the plant and machine to ensure construction activities are in compliance of CNP. 	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
301	31th January 2019	27th - 31th January 2019 / Construction of Lam Tin Interchange	Management Section of Hong Nga Court	Noise	Noise nuisance suspected from the	Y	See Investigation/ Mitigation Action on Complaint no.290. Details should be referred to CIR-N45.	Closed
300	30th January 2019	30th January 2019 / Construction Site of Footbridge between Tiu Keng Leng Sport Centre and Park Central	Resident of Park Central	Noise	Beeping Noise nuisance suspected from the construction works involving mobile crane	Y	See investigation / Mitigation Action for complaint no. 296. Details should be referred to CIR-N47.	Closed
299	30th January 2019	27th - 29th January 2019 / Construction Site of Footbridge between Tiu Keng Leng Sport Centre and Park Central	Resident of Park Central	Noise	Beeping Noise nuisance suspected from the construction works involving mobile crane and also suspected from elevation platform	Y	See investigation / Mitigation Action for complaint no. 296. Details should be referred to CIR-N47.	Closed
298	30th January 2019	Not specific / Near Po Shun Road	Resident of Park Central	Noise & Air Quality	The dust generation and noise nuisance from the construction site near Po Shun Road	Y	There were several construction activities in the site including the removal of steel mould & scaffolding of bridge deck, erection of scaffolding for staircase and construction of Pour 1 of main deck (GL4-5) during time of complaint. Details should be referred to CIR-C25.	Closed
297	30th January 2019	27 th - 30th January 2019 / Construction works at TKO-Lam Tin tunnel	Resident of Hong Nga Court	Noise	Noise nuisance suspected from the construction involving chiselling works	Y	See Investigation/ Mitigation Action on Complaint no.290. Details should be referred to CIR-N45.	Closed
296	29th January 2019	27th - 29th January 2019 / Construction Site of Footbridge near Tiu Keng Leng Sport Centre.	Resident of Park Central	Noise	Beeping Noise nuisance suspected from the mobile crane at the Footbridge near Park Central Block 6	Y	Project-related. The following recommendations were made to further enhance the mitigation measures: To arrange a signalman instead of mobile crane reversing signal for minimize the beeping noise disturbance; Frequent checking and repair the operating PME; The deployment of Cantilever noise barrier should screen the line-of-sight from sensitive receivers; To continue to strictly follow the requirements in the approved CNMP; To ensure noise barrier and sound proofing canvases wrapped on PME are intact and in good condition.	Closed
295	29th January 2019	29th January 2019 / Construction of Road P2	Resident of Ocean Shore	Noise	Complaint about the noise nuisance from the steel cable wire for anchoring between barge and pier	Y	There was a salvage works for the sunken barge (CS306) in a whole day on 27 Jan, 12 am to 3 pm on 28 Jan and 11:40 am on 29 Jan 2019. Details should be referred to CIR-N46.	Closed
294	29th January 2019	29th January 2019 / Construction of Road P2	Resident in O King Road	Air Quality	Complaint about the dark smoke and odour nuisances from barge.	Y	The sulphur content percentage of the adopted diesel fuel was lower than 0.05% which is compiled with the Hong Kong Air Pollution Control (Marine Light Diesel) Regulation, therefore the odour problem should be minimised. Smoke filtering tanks were adopted on deck level of derrick barges to reduce emission of dark smoke and exhaust smell. The situation has improved after the filter has been replaced. Details should be referred to CIR-A12.	Closed
293 (EPD- K15/RE/000032 91-19)	29th January 2019	29th January 2019 / Construction of Lam Tin Interchange	Cha Kwo Ling Tsuen	Noise & Air Quality	Complained about construction noise & dust (Day & Night time)	Y	See investigation / Mitigation Action for complaint no. 270. Details should be referred to CIR-C29.	Closed
292	29th January 2019	29th January 2019 / Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complained about the construction noise from breaking work.	Y	Project-related. The following recommendations were made to further enhance the mitigation measures:	Closed
291	29th January 2019	29th January 2019 / Construction of Lam Tin Interchange	Resident of Hong Pak Court	Noise	Complained about the construction noise from breaking work.	Y	I be arrange a signalman instead of mobile chare reversing signal for minimize the beeping noise disturbance; □ Frequent checking and repair the operating PME; □ The deployment of Cantilever noise barrier should screen the line-of-sight from sensitive receivers:	Closed
Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Action vel Investigation/Mitigation Action dance	
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290	29th January 2019	29th January 2019 / Construction of Lam Tin Interchange	District Council	Noise	Complained about the construction noise from Tunnel Works	Y	Y Y I To ensure noise barrier and sound proofing canvases wrapped on PME are intact and in good condition.	
289 (EPD- N08/RE/000008 59-19)	24th January 2019	Early December 2018 -24- Jan-2019 / Construction of Road P2	Resident of Ocean Shore	Noise	Complained about the construction noise from Tunnel Works	Y	See Investigation/ Mitigation Action on Complaint no.288. Details should be referred to CIR-N44.	Closed
288	18th January 2019	18th January 2019 (Non- specific)/ Construction of Road P2	Public	Noise	Complained about the construction noise from Tunnel Works	Y	No major construction works at the concerned night time. There was only salvage operation carried out in 11 pm to 12 pm on 17 Jan 2019. No violation of CNP nor Noise Control Ordinance is found in this regard. Details should be referred to CIR-N44.	Closed
287	17th January 2019	17th January 2019 / Construction of Lam Tin Interchange	Resident of Yung Lai House	Noise	Complained about the construction noise from Kam Tin Interchange.	Y	Y Project-related. The following recommendations are made to further enhance the mitigation measures: To regularly check and review the noise control activities that are being carried out on site to ensure compliance with statutory requirement. Machines may be in intermittent use should be shut down between works periods or should be throttled down to a minimum. To provide training for the workers to prevent unnecessary noise disturbance. To provide cantilever barrier to screen the construction noise from the NSRs	
286	17th January 2019	17th January 2019 / Construction of Road D4	Resident of Park Central	Noise	High frequency machine noise nuisance involving air compressor from the construction site near the Park Central in day time	N	See Investigation/ Mitigation Action on Complaint no. 285. The concerned air compressor has been removed on 16 th Jan 2019. Details should be referred to CIR-N41.	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
285	17th January 2019	17th January 2019 / Construction of Road D4	Resident of Park Central	Noise	Complained about the construction noise from an air blower/fan with generator near Tiu Keng Leng Sport Centre and Park Central.	N	The concerned air compressor was removed from the construction site since 16 January 2019 afternoon, but the high frequency noise nuisance complaints were received on 17 January 2019. According to the CM8(A) noise monitoring record by environmental team, the other noise source from construction site are beeping noise of the reverse alarm system of the plant. Therefore, the high frequency noise nuisance is considered project related after 16 January 2019. Details should be referred to CIR-N41.	Closed
284	16th January 2019	16th January 2019 / Construction of Road D4	Resident of Park Central	Noise	Complained about the construction noise from an air compressor near Tiu Keng Leng Sport Centre and Park Central.	N	See Investigation/Mitigation Action on Complaint no. 272. Additional noise barrier was erected around the said air compressor. Details should be referred to CIR-N41.	Closed
283	15th January 2019	15th January 2019 / Construction of Road D4	Resident of Park Central	Noise	Complained about the construction noise from an air compressor near Tiu Keng Leng Sport Centre and Park Central.	N	See Investigation/Mitigation Action on Complaint no. 272. Additional noise barrier was erected around the said air compressor. Details should be referred to CIR-N41.	Closed
282	15th January 2019	15th January 2019 / Construction of Road D4	Resident of Park Central	Noise	Complained about the construction noise from an air compressor near Tiu Keng Leng Sport Centre and Park Central.	Ν	See Investigation/ Mitigation Action on Complaint no. 272. Additional noise barrier was erected around the said air compressor. Details should be referred to CIR-N41.	Closed
281	15th January 2019	15th January 2019 / Construction of Road D4	Resident of Park Central	Noise	High frequency machine noise nuisance involving air compressor from the construction site near Chui Ling Road roundabout and Tiu Keng Leng Sport Centre in day time.	Ν	See Investigation/ Mitigation Action on Complaint no. 272. Additional noise barrier was erected around the said air compressor. Details should be referred to CIR-N41.	Closed
280	14th January 2019	14th January 2019 / Construction of Road D4	Resident of Park Central	Noise	High frequency machine noise nuisance involving air compressor from the construction site near Chui Ling Road roundabout and Tiu Keng Leng Sport Centre in day time.	N	See Investigation/ Mitigation Action on Complaint no. 272. Details should be referred to CIR-N41.	Closed
279	14th January 2019	14th January 2019 / Construction of Road D4	Resident of Park Central	Noise	High frequency machine noise nuisance involving air compressor from the construction site near Tiu Keng Leng Sport Centre in day time Saturday and Holiday (Sunday).	N	See Investigation/ Mitigation Action on Complaint no. 272. Details should be referred to CIR-N41.	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
278	12th January 2019	12th January 2019 / Construction of Road D4	Resident of Park Central	Noise	High frequency machine noise nuisance involving air compressor from the construction site between Tiu Keng Leng Sport Centre and Park Central in day time	Y	See Investigation/ Mitigation Action on Complaint no. 272. Details should be referred to CIR-N41.	Closed
277	12th January 2019	12th January 2019 / Construction of Road P2	Resident of Ocean Shore	Noise	Complained about the noise from breaking activities.	Ν	See investigation/ Mitigation Action on Complaint no. 264. Details should be referred to N39.	Closed
276	11th - 12th January 2019	11th - 12th January 2019 / Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complained about the construction noise from Tunnel Works	Y	The complaints are considered as project-related. The following recommendations were made to further enhance the mitigation measures: Frequent checking and repair the gaps or broken acoustic sheets; Replace any broken SilentMat for wrapping the breaker head; To adopt Cantilever noise barriers at Lam Tin Interchange to screen noise effectively; The deployment of Cantilever noise barrier To continue to strictly follow the requirements in the relevant CNP. To conduct an ad hoc ground-borne noise monitoring with the coordination of the Engineer Engineer should monitor the plant and machine to ensure construction activities are in compliance of CNP. Details can be referred to CIR-N40.	
275	11th January 2019	11th January 2019 / Construction of Road D4	Resident of Park Central	Noise	Complained about the construction noise from a crane near footbridge between Tiu Keng Leng Sport Centre and Park Central	Y	See Investigation/ Mitigation Action on Complaint no. 272.	Closed
274 (EPD- N08/RE/000012 34-19)	11th January 2019	11th January 2019 / Construction of Road D4	Public	Noise	Complaint about the high frequency machine noise nuisance from the construction site of footbridge between Tiu Keng Leng Sport Centre and park Central.	Y	No high-frequency noise was detected near the complaint location, however, the noise similar to description was detected within the renovation works inside Park Central. Details should be referred to complaint no. 272 and CIR-N41.	Closed
273	10th January 2019	10th January 2019 / Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complained about the construction noise from Tunnel Works	Y	The complaints are considered as project-related. The following recommendations were made to further enhance the mitigation measures: Frequent checking and repair the gaps or broken acoustic sheets; Replace any broken SilentMat for wrapping the breaker head; To adopt Cantilever noise barriers at Lam Tin Interchange to screen noise effectively; The deployment of Cantilever noise barrier To continue to strictly follow the requirements in the relevant CNP. To conduct an ad hoc ground-borne noise monitoring with the coordination of the Engineer Engineer should monitor the plant and machine to ensure construction activities are in compliance of CNP.	
272	8th January 2019	8th January 2019 / Construction of Road D4	Resident of Park Central	Noise	Complaint about the high frequency machine noise nuisance from the construction site near Park Central in day time.	Y	High frequency noise emitted from an air compressor was suspected. Noise barrier was seen erected. Noise barrier using material with higher absorption coefficient such as mineral wool is recommended. Details should be referred to CIR-N41.	

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
271	8th January 2019	8th January 2019 / Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complained about the construction noise from Tunnel Works	Y	The complaints are considered as project-related. The following recommendations were made to further enhance the mitigation measures: Frequent checking and repair the gaps or broken acoustic sheets; Replace any broken SilentMat for wrapping the breaker head; To adopt Cantilever noise barriers at Lam Tin Interchange to screen noise effectively; The deployment of Cantilever noise barrier To continue to strictly follow the requirements in the relevant CNP. To conduct an ad hoc ground-borne noise monitoring with the coordination of the Engineer Engineer should monitor the plant and machine to ensure construction activities are in compliance of CNP.	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	n Investigation/ Mitigation Action	
270 (EPD- K15/RE/000006 91-19)	7th January 2019	7th January 2019 / Construction of Lam Tin Interchange	Cha Kwo Ling Tsuen	Noise & Air Quality	Complained about construction noise & dust (Day & Night-time)	Y	Regular noise monitoring results for day time and night time show full compliance of the noise criteria. Air quality monitoring result in all stations show that no adverse air quality impact has been brought about to the nearby sensitive receivers during the time of complain. During Site audit, damaged acoustic material on the breaker was observed. Watering was provided at during rock breaking to avoid dust generation. The Contractor was reminded to deploy noise barrier to screen the line-of-sight from sensitive receiver.	Closed
269	7th January 2019	7th January 2019 / Construction of Road D4	Resident of Park Central	Noise	Complained about the night time construction noise near Park Central.	Y	No noticeable high frequency noise was detected from the air compressor and noise barrier was seen erected in the line-of-sight from the NSR to the Air compressor. Refer to CIR-41 for details.	Closed
							No exceedances were record at the nearest monitoring station. The following recommendation were made to further enhance the mitigation measure:	
							Ÿrequent checking and repair the gaps or broken acoustic sheets;	
							Replace any broken Silent Mat for wrapping the breaker head;	
							Ϋ́ o adopt Cantilever noise barriers at Lam Tin Interchange to screen noise effectively;	
268	7th January 2019	7th January 2019 / Construction of Lam Tin	Resident of Yau Lai Estate	Noise	Complained about the construction noise at Lam Tin Interchange.	Y	The deployment of Cantilever noise barrier should screen the line-of-sight from sensitive receiver;	Closed
		Interchange					Ϋ́ To continue to strictly follow the requirements in the relevant CNP;	
							$\mathbf{\ddot{Y}}$ o conduct an ad hoc ground-borne noise monitoring with the coordination of the	
							Engineer; and	
							Éngineer should monitor the plant and machine to ensure construction activities are in	
							compliance of CNP.	
267	7th January 2019	7th January 2019 / Construction of Road P2	Resident of Ocean Shore	Noise	Complained about the construction noise from breaking activities.	Y	Refer to Investigation/ Mitigation Action on Complaint no. 264. Details should be referred to N39.	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
266	7th January 2019	7th January 2019 / Construction of Road P2	Resident of Ocean Shore	Noise	Complained about the construction noise from breaking activities.	Y	No exceedances were recorded at the nearest monitoring station, however, the approved location for nois monitoring was located at the podium of Ocean Shores. Due to inaccessibility to private unit, it is not possible to perform monitoring at higher floor. ET will keep approaching Ocean Shore Management Offic for impact noise monitoring at higher floor. The recommendations for Contractor is as follows: • only well-maintained plant on-site and plant should be serviced regularly during the construction program; • Plants known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby noise sensitive receivers; Machines and plants that may be in intermittent use should be shut down between works periods or shoul be throttled down to minimum.	
							No exceedances were record at the nearest monitoring station. The following recommendation were made to further enhance the mitigation measure:	
							Ÿrequent checking and repair the gaps or broken acoustic sheets;	
							Replace any broken Silent Mat for wrapping the breaker head;	
							Ÿo adopt Cantilever noise barriers at Lam Tin Interchange to screen noise effectively;	
265	7th January 2019	7th January 2019 / Construction of Lam Tin	Resident of Hong Nga Court	Noise	Complained about the construction noise from Tunnel Works	Y	The deployment of Cantilever noise barrier should screen the line-of-sight from sensitive receiver;	Closed
		Interchange					ŸTo continue to strictly follow the requirements in the relevant CNP;	
							$\ddot{\mathbf{Y}}$ o conduct an ad hoc ground-borne noise monitoring with the coordination of the]
							Engineer; and	
						ļ	Éngineer should monitor the plant and machine to ensure construction activities are in	
							compliance of CNP.	

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
264	2nd January 2019	2nd January 2019 / Construction of Road P2	Resident of Ocean Shore	Noise	Complained about the construction noise from breaking activities.	Y	No noise limit level exceedance was recorded at the noise monitoring stations near ocean shores. The contractor has applied lubricants to the joint of the excavators to dampen the noise emitted from the PMEs. The contractor is recommended to use noise barriers to screen the PMEs from the NSRs as per the Noise mitigation plan.	Closed
263 (EPD-)	1st January 2019	31st December 2018 / Coastal near TKO cemetery	General Public	Water	Complained concerning oil leakage/ on the sea surface near the sunken barge at C2 site.	N	Oil leakage happened due to the derrick lighter was submerged to the sea within the cofferdam. As the oil leakage was found outside the cofferdam during site inspection, there was a gap in the cofferdam. The oil leakage was cleaned up and the floating oil absorber has been used to surround the cofferdam by Contractor N The Contractor are reminded to1) regular check if the site vessels and cofferdam are in good-condition; 2) To regular monitor the operation of any activities in the cofferdam area; 3) To implement the proposed site vessels safety and the emergency responses including clearance measures. Details of the investigation shoul be referred to CIR-W10.	
262	30 th December 2018	26 th December 2018/ Construction of Lam Tin Interchange	Resident of Hong Pak Court	Noise	Complained about the construction noise from tunnel works of Lam Tin Interchange.	Y	Refer to investigation for complaint no. 254	Closed
261	26 th December 2018	26 th December 2018/ Construction of Lam Tin Interchange	Management Section of Hong Nga Court	Noise	Complained about the construction noise from tunnel works of Lam Tin Interchange.	Y	Refer to investigation for complaint no. 254	Closed
260	26 th December 2018	26 th December 2018/ Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complained about the construction noise of Lam Tin Interchange.	Y	Y Refer to investigation for complaint no. 254	
259	26 th December 2018	26 th December 2018/ Construction of Lam Tin Interchange	Management Section of Hong Nga Court	Noise	Complained about the construction noise of Lam Tin Interchange.	Y	Refer to investigation for complaint no. 254	Closed
							There was no major construction works at the concerned area during the time of complaint and confirmed by the Resident Engineer. Steel cable wire for anchoring between barge and pier is considered as a possible noise source. The complaint is considered project related.	

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
							Mitigation measures:	
258	18 th December 2018	18 th December 2018/ Construction of Lam Tin Interchange	Engineering Section of Ocean Shore	Noise	Complained about the construction noise from the marine works.	Y Cable wire for anchoring between barge and pier has been replaced by rope between 27 Dec and 2 Jan to reduce noise impact. In addition, other good site practices recommended in the "Implementation Schedule of Proposed Mitigation Measures" of EM&A Manual and the approved CNMP of this Contract had been implemented by the Contractor, including the following:		Closed
							Ŷ Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program;	
							 Ŷ Plants known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby noise sensitive receivers; Ŷ Machines and plants that may be in intermittent use should be shut down between works periods or should be throttled down to minimum. 	
257	18 th December 2018	18 th December 2018/ Construction of Road P2	Resident of Ocean Shore	Noise	Complained about the construction noise from the marine works.	Y	There was no major construction works at the concerned area during the time of complaint and confirmed by the Resident Engineer. Steel cable wire for anchoring between barge and pier is considered as a possible noise source. The Contractor has replaced the cable wire for anchoring between barge and pier with ropes between 27 Dec and 2 Jan to reduce noise impact.	Closed
							No exceedance was recorded in the noise monitoring result. The number of PME operated in LTI was consistent with the proposed Construction Noise mitigation Plan (CNMP)	
							The following recommendations were made for the Contractor to enhance the mitigation measures:	
256	17 th December 2018	15 th December 2018/ Construction of Road P2	Resident of Ocean Shore	Noise	Complained about the construction noise from breaking and piling activities	Ν	Ÿ To frequently check and repair operating PME if any loosen or worn parts of the equipment to reduce excessive noise disturbance; Ŷ Noise barriers should be designed and erected around the noise sources to block the direct line-of-sight from the NSR as per the CNMP;	Closed
							To ensure all erected noise barriers and sound proofing canvases wrapped on PME are intact and in good condition.	
254	16 th December 2018	16 th December 2018/ Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complained about the construction noise from Tunnel Works	Y	Ŷ The night-time works were only conducted inside the tunnels with valid CNP. The noise nuisances are not considered as air-borne in nature, but ground-borne noise. 2.17 In order to confirm the possible ground- borne nature of the noise nuisances for complaints summarized in this report, CEDD has engaged the environmental team to conduct ad hoc ground-borne noise monitoring with the coordination of the Engineer. The findings will be provided in a separate report for the ad hoc monitoring.	Closed
253	15 th December 2018	15 th December 2018/ Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complained about the construction noise from Tunnel Works	Y	Refer to the investigation for complaint no. 254	Closed
							The number of PMEs operated on site and on-time percentage from 19 to 30 November complied with the CNMP, thus, no violation was identified.	
							Based on the noise and air monitoring results in November 2018, no Limit Level Exceedance was recorded.	
252	30 th November	30 th November 2018/	Resident of Park	Noise &	noise and dust resuspension in Road	Y	Mitigation Measures	Closed
	2018	Construction of Road D4	Central	All	D4.		Ÿ A more effective acoustic barrier was erected between the drill rig and Park Central.	
							Ÿ Frequent water spraying along the Po Yap Road for eight times a day,	
							Stockpile are covered with impervious material to avoid dust resuspension	
		4					The complaint lodged on 25 th November 2018 is considered as non-project related, as no works was conducted on that day.	
251	28 th November 2018	27 th November 2018/ Construction of TKO portal	Public	Noise	Complained about the construction noise from the marine works.	Y	The complaint on 27th November 2018 is considered project related. The contractor is reminded to 1) frequently check and repair operating PME if any loosen or worn parts of the	Closed
							equipment to reduce excessive noise disturbance; 2) Ensure no further use of PA system for marine works.	

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
250	26 th November 2018	26 th November 2018/ Public sea in TKO	Resident of Ocean Shore	Noise	Complained about the noise nuisance from the operation of derrick barge on Sunday.	Y	Refer to the investigation for complaint no. 251	Closed
249	25 th November 2018	20 th November 2018/ Lam Tin Interchange	Resident of Yau Lai Estate	Noise	Complained about the noise nuisance from the Excavators in LTI on Sunday morning.	Y	Refer to the investigation for complaint no. 251	Closed
248	20 th November 2018	20 th November 2018/ Lam Tin Interchange	Resident of Yau Lai Estate	Noise	Complained about the noise nuisance during transfer of material in evening time at LTI	Y	Regular noise monitoring results for restricted and non-restricted hours show full compliance of the noise criteria (night-time noise exceedance is considered non-project related). The contractor is reminded to adopt cantilever noise barriers at Lam Tin Interchange to screen noise effectively by screening the line-of-sight from sensitive receivers	Closed
247	20 th November 2018	19 th November 2018/ Lam Tin Interchange	Public	Noise	Complained about the noise nuisance from rock dropping during evening time	Y	Refer to the investigation for complaint no. 248	Closed
246	19 th November 2018	19 th November 2018/ Lam Tin Interchange	Resident of Yau Lai Estate	Noise	Complained about the noise nuisance from dump truck in evening time	Y	Refer to the investigation for complaint no. 248	Closed
245	8 th November 2018	8 th November 2018/ Lam Tin Interchange	Public	Noise	Complained about construction noise during night time from LTI	Y	Refer to the investigation for complaint no. 248	Closed
243	8 th November 2018	8 th November 2018/ Lam Tin Interchange	Resident of Yau Lai Estate	Noise	Complained about the construction noise during evening time from LTI.	Y	Refer to the investigation for complaint no. 248	Closed
242	7 th November 2018	7 th November 2018/ Lam Tin Interchange	Public	Noise	Complained about the construction noise and dust nuisance.	Y	Refer to the investigation for complaint no. 248	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/Mitigation Action	Status
241	6 th November 2018	6 th November 2018/ Lam Tin Interchange	Resident of Yau Lai Estate	Noise	Complained about the noise nuisance from LTI during evening time	Y	Refer to the investigation for complaint no. 248	
240	6 th November 2018	6 th November 2018/ Lam Tin Interchange	Resident of Yau Lai Estate	Noise	Complained about the noise nuisance from LTI during evening time	Y	Refer to the investigation for complaint no. 248	Closed

Appendix L - Cumulative Log for Complaints, Notifications of Summons and Successful Prosecutions Table L2 - Summary of Cumulative Complaint Log for Tseung Kwan O - Lam Tin Tunnel

Reporting Month/Year	Number of Complaints in Reporting Month	Number of Summons in Reporting Month	Number of Prosecutions in Reporting Month
2016	11	0	0
2017	99	1	0
2018	150	0	1
2019	156	0	0
2020	81	0	0
Jan-21	13	0	0
Feb-21	3	0	0
Mar-21	14	0	0
Total	533	1	1

Table L3 - Cumulative Log for Notifications of Summons

Contract No.	Log Ref.	Date/Location	Subject	Status	Total no. Received in this Reporting Month	Total no. Received since project commencement
NE/2015/01						
NE/2015/02	KTS24138/2017	25 June 2017/ Marine construction site at Junk Bay	Contrary to: Sections 6 (1) (b) and 6 (5), Noise Control Ordinance, Cap.400	The Summon was issued on 22 Dec 2017 First hearing on 29/3/2018	0	1
NE/2015/03						
NE/2017/01						
NE/2017/02						
NE/2017/06						

Table L4 - Cumulative Log for Successful Prosecutions

Contract No.	Log Ref.	Date/Location	Subject	Status	Total no. Received in this reporting month	Total no. Received since project commencement
NE/2015/01						
NE/2015/02	KTS24138/2017	25 June 2017/ Marine construction site at Junk Bay	Contrary to: Sections 6 (1) (b) and 6 (5), Noise Control Ordinance, Cap.400	Successful prosecution to the subcontractor on 27 June 2018	1	1
NE/2015/03						
NE/2017/01						
NE/2017/02					-	
NE/2017/06						

APPENDIX M SUMMARY TABLE FOR MAJOR SITE ACTIVITIES UNDERTAKEN IN THE REPORTING QUARTER

Contract	Site Area		Site Activities			
		Nov 2020	Dec 2020	Jan 2021		
NE/2015/01 -	Lam Tin	1) EHC2 U-Trough	1) EHC2 U-Trough	1) EHC2 U-Trough		
Lam Tin Tunnel -	Interchange	2) Site Formation – Area 1G1, Area 1G2,	2) Site Formation – Area 1G1, Area 1G2, Area	2) Site Formation – Area 1G1, Area 1G2, Area 2		
Main Tunnel and		Area 2 & Area 5	2 & Area 5	& Area 5		
Works		3) Site Formation – Slope stabilization &	3) Site Formation – Slope stabilization &	3) Site Formation – Slope stabilization &		
		Retaining Wall	Retaining Wall	Retaining Wall		
		4) Administration Building & Bridge	4) Administration Building & Bridge	4) Administration Building & Bridge		
		Construction	Construction	Construction		
		5) Stormwater Tank Construction	5) Stormwater Tank Construction	5) Stormwater Tank Construction		
		6) S01_2, EHC1&4 Construction	6) S01_2, EHC1&4 Construction	6) S01_2, EHC1&4 Construction		
		7) CKLR Underground Utilities	7) CKLR Underground Utilities	7) CKLR Underground Utilities		
	Main Tunnel	1) S02_2 Excavation	1) S02_2 Excavation	1) S02_2 Excavation		
		2) Main Tunnel Lining Works	2) Main Tunnel Lining Works	2) Main Tunnel Lining Works		
	ТКО	1) Bridge Construction	1) Bridge Construction	1) Bridge Construction		
	Interchange	2) East Ventilation Building	2) East Ventilation Building	2) East Ventilation Building		
NE/2015/02 -	General	1) Site formation works, road and	1) Site formation works, road and drainage for	1) Site formation works, road and drainage for		
O – Lam Tin		drainage for Road P2 CH500-CH650	Road P2 CH500-CH650 and SR1	Road P2 CH500-CH650 and SR1		
Tunnel – Road P2		and SR1	2) Sloping seawall construction	2) Sloping seawall construction		
Works		2) Sloping seawall construction	3) Excavation at CH821 – CH105 Cofferdam	3) Excavation at CH821 – CH105 Cofferdam		
		3) Excavation at CH821 - CH105	4) Excavation at CH105 – CH318 Cofferdam	4) Excavation at CH105 – CH318 Cofferdam		
		Cofferdam	5) Installation of ELS at CH105 – CH821	5) Installation of ELS at CH105 – CH821		
		4) Excavation at CH105 – CH318	Cofferdam	Cofferdam		
		Cofferdam	6) Construction of U-trough at CH821 –	6) Construction of U-trough at CH821 – CH105		
		5) Installation of dewatering system at	CH105	7) Installation of dewatering system at CH821 –		
		CH821 – CH105 Cofferdam	7) Installation of dewatering system at CH821	CH105 Cofferdam		

		6)	Re-construction of Tong Yin Street		– CH105 Cofferdam	8)	Construction of U-trough at CH821 – CH105
			DN150, DN200	8)	Re-construction of watermains	9)	Construction of Underpass at CH105 -
		7)	Structure works at underpass CH165 -		DN150/DN200 at Tong Yin Street		CH318
			CH318	9)	Structure works for underpass CH105 -	10)	Re-construction of watermains
		8)	Reinstatement of Tong Yin Street		CH318		DN150/DN200 at Tong Yin Street
		9)	Reinstatement of Chiu Shin Street	10)	Reinstatement of Tong Yin Street	11)	Structure works for underpass CH105 -
		10)	Water works DN2501 and DN300	11)	Reinstatement of Chiu Shin Street		CH318
		11)	Removal of temporary cofferdam	12)	Water works PR315 and DN300	12)	Reinstatement of Tong Yin Street
		12)	Backfilling the directional sign footing	13)	Removal of temporary cofferdam	13)	Reinstatement of Chiu Shin Street
			DS25	14)	Installation of socketed H-pile at CT01	14)	Water works PE315 and DN300
		13)	Installation of socketed H-pile at CT01		CH117 – CH336	15)	Removal of temporary cofferdam
			CH117 – CH336	15)	Construction of abutment	16)	Installation of socketed H-pile at CT01
		14)	Construction of abutment	16)	Road & drainage works at SR1 footpath /		CH117 – CH336
		15)	Construction of barrier at CH500 -		cycle truck	17)	Construction of abutment
			CH650	17)	Installation of ELS at cofferdam CH105 –	18)	Road & drainage works at SR1 footpath /
		16)	Drainage works at SR1 footpath /		CH318		cycle track
			cycle truck	18)	Excavation of 3rd layer of ELS at CH105 -	19)	Excavation of 3^{rd} layer of ELS at CH105 –
		17)	Installation of ELS at cofferdam		CH318 cofferdam		CH318 cofferdam
			CH105 – CH318	19)	Backfilling works for reinstatement of	20)	Construction of storm water drain system for
		18)	Excavation of 3 rd layer of ELS at		Tong Yin Street		SHH 9101 – 9103
			CH105 – CH318 cofferdam	20)	Construction of storm water drain system	21)	Drainage works at U-trough CH318 -
		19)	Backfilling works for reinstatement of		for SHH 9101 – 9103		CH363.50
			Tong Yin Street	Dra	inage works at U-trough CH318 –	22)	H-Pile Remedial Works at CH105 - CH318
		Con	struction of storm water drain system	CH	363.50		Cofferdam
		for S	SHH 9101 – 9103			23)	Construction of Site Hull Road adjacent to
							SR2 CH110 – CH170
NE/2015/03 – Tsueng Kwan O – Lam Tin	General	The	construction works under the contract had	been	a completed in December 2019		

Tunnel – Northern				
NE/2017/01 – Tseung Kwan O – Lam Tin Tunnel – Tseung Kwan O Interchange and Associated Works	General	 Construction of Pier Construction of Pier Head Works Construction of Pier Head Bored Piling Works Segment Erection Works Installation of Precast Pile Cap Shell 	 Dismantling of Temporary Working Platforms Bored Piling Works Installation of Precast Pile Cap Shell Construction of Pile Cap Construction of Pier Construction of Pier Head works Segment erection works Construction of Bridge Decks 	 Inspection pit excavation and utility diversion works Construction of drainage and watermain Pile cap Asphalt Paving Pier, Staircase and Lift Shalt Construction Road Works Pre-bored Socket-H Pile
NE/2017/02 – Tseung Kwan O – Lam Tin Tunnel – Road P2/D4 and Associated Works	General	 Inspection pit excavation and utility diver Construction of drainage and watermain Pile cap Asphalt Paving Pier, Staircase and Lift Shalt Construction Road Works Pre-bored Socket-H Pile 	sion works	
NE/2017/06 – Tseung Kwan O – Lam Tin Tunnel – Traffic Control and Surveillance System(TCSS) and Associated Works	General	 Site clearance Site Office set-up Project signboard set up 	 Site clearance Site Office set-up Project signboard set up 	 Site clearance Site Office set-up Project signboard set up

APPENDIX N EVENT AND ACTION PLANS

Event and Action Plan for Air Quality (Dust)

		ACT	ION		
EVENI	ET	ET IEC		CONTRACTOR	
Action level being exceeded by one sampling	 Identify source, investigate the causes of complaint and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify Contractor.	 Rectify any unacceptable practice; Amend working methods if appropriate. 	
Action level being exceeded by two or more consecutive sampling	 Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial actions to IEC within three working days of notification; Implement the agreed proposals; Amend proposal if appropriate. 	

	ACTION									
EVENI	ЕТ	IEC	ER	CONTRACTOR						
	8. If exceedance stops, cease									
	additional monitoring.									
Limit level being	1. Identify source, investigate the	1. Check monitoring data submitted	1. Confirm receipt of notification of	1. Take immediate action to avoid						
exceeded by one	causes of exceedance and propose	by ET;	exceedance in writing;	further exceedance;						
sampling	remedial measures;	2. Check Contractor's working	2. Notify Contractor;	2. Submit proposals for remedial						
	2. Inform Contractor ,IEC, ER, and	method;	3. Ensure remedial measures	actions to IEC within three						
	EPD;	3. Discuss with ET and Contractor	properly implemented.	working days of notification;						
	3. Repeat measurement to confirm	on possible remedial measures;		3. Implement the agreed proposals;						
	finding;	4. Advise the ER on the		4. Amend proposal if appropriate.						
	4. Increase monitoring frequency to	effectiveness of the proposed								
	daily;	remedial measures;								
	5. Assess effectiveness of Contractor's	5. Supervise implementation of								
	remedial actions and keep IEC,	remedial measures.								
	EPD and ER informed of the									
	results.									
Limit level being	1. Notify IEC, ER, Contractor and	1. Discuss amongst ER, ET, and	1. Confirm receipt of notification of	1. Take immediate action to avoid						
exceeded by two	EPD;	Contractor on the potential	exceedance in writing;	further exceedance;						
or more	2. Identify source;	remedial actions;	2. Notify Contractor;	2. Submit proposals for remedial						
consecutive	3. Repeat measurement to confirm	2. Review Contractor's remedial	3. In consolidation with the IEC,	actions to IEC within three working						
sampling	findings;	actions whenever necessary to	agree with the Contractor on the	days of notification;						
	4. Increase monitoring frequency to	assure their effectiveness and	remedial measures to be	3. Implement the agreed proposals;						
	daily;	advise the ER accordingly;	implemented;							

EVENT	ACTION								
EVENI	ET			IEC		ER		CONTRACTOR	
	5.	Carry out analysis of Contractor's	3.	Supervise the implementation of	4.	Ensure remedial measures	4.	Resubmit proposals if problem still	
		working procedures to determine		remedial measures.		properly implemented;		not under control;	
		possible mitigation to be			5.	If exceedance continues, consider	5.	Stop the relevant portion of works	
		implemented;				what portion of the work is		as determined by the ER until the	
	6.	Arrange meeting with IEC and				responsible and instruct the		exceedance is abated.	
		ER to discuss the remedial actions				Contractor to stop that portion of			
		to be taken;				work until the exceedance is			
	7.	Assess effectiveness of				abated.			
		Contractor's remedial actions and							
		keep IEC, EPD and ER informed							
		of the results;							
	8.	If exceedance stops, cease							
		additional monitoring.							

Event and Action Plan for Construction Noise

EVENT				ACT	ΓΙΟΝ					
		ET		IEC		ER		CONTRACTOR		
Action	1.	Notify IEC and Contractor;	1.	Review the analysed results	1.	Confirm receipt of notification of	1.	Submit noise mitigation proposals to		
Level	2.	Carry out investigation;		submitted by the ET;		failure in writing;		IEC;		
	3.	Report the results of investigation to	2.	Review the proposed remedial	2.	Notify Contractor;	2.	Implement noise mitigation proposals.		
		the IEC, ER and Contractor;		measures by the Contractor and	3.	Require Contractor to propose				
	4.	Discuss with the Contractor and		advise the ER accordingly;		remedial measures for the analysed				
		formulate remedial measures;	3.	Supervise the implementation of		noise problem;				
	5.	Increase monitoring frequency to		remedial measures.	4.	Ensure remedial measures are				
		check mitigation effectiveness.				properly implemented.				
Limit	1.	Identify source;	1.	Discuss amongst ER, ET, and	1.	Confirm receipt of notification of	1.	Take immediate action to avoid		
Level	2.	Inform IEC, ER, EPD and		Contractor on the potential remedial		failure in writing;		further exceedance;		
		Contractor;		actions;	2.	Notify Contractor;	2.	Submit proposals for remedial		
	3.	Repeat measurements to confirm	2.	Review Contractors remedial actions	3.	Require Contractor to propose		actions to IEC within 3 working		
		findings;		whenever necessary to assure their		remedial measures for the analysed		days of notification;		
	4.	Increase monitoring frequency;		effectiveness and advise the ER		noise problem;	3.	Implement the agreed proposals;		
	5.	Carry out analysis of Contractor's		accordingly;	4.	Ensure remedial measures properly	4.	Resubmit proposals if problem still		
		working procedures to determine	3.	Supervise the implementation of		implemented;		not under control;		
		possible mitigation to be		remedial measures.	5.	If exceedance continues, consider	5.	Stop the relevant portion of works as		
		implemented;				what portion of the work is		determined by the ER until the		
	6.	Inform IEC, ER and EPD the causes				responsible and instruct the		exceedance is abated.		
		and actions taken for the				Contractor to stop that portion of				
		exceedances;				work until the exceedance is abated.				

EVENT	ACTION								
	ЕТ	IEC	ER	CONTRACTOR					
	7. Assess effectiveness of Contractor's								
	remedial actions and keep IEC, EPD								
	and ER informed of the results;								
	8. If exceedance stops, cease additional								
	monitoring.								

Event and Action Plan for Marine Water Quality

		Act	tion	
Event	ET	IEC	ER	CONTRACTOR
Action level being	• Identify the source(s) of impact by	• Discuss with ET and Contractor on	• Discuss with IEC on the proposed	• Inform the ER and confirm
exceeded by one	comparing the results with those	the mitigation measures;	mitigation measures;	notification of the non-compliance in
sampling day at	collected at the control stations as	Review proposal on mitigation	• Make agreement on the mitigation	writing;
water sensitive	appropriate;	measures submitted by Contractor	proposal.	• Rectify unacceptable practice;
receiver(s)	• If exceedance is found to be caused	and advise the ER accordingly;		• Check all plant and equipment;
	by the reclamation activities,	• Assess the effectiveness of the		• Amend working methods if
	repeat in-situ measurement to	implemented mitigation measures.		appropriate;
	confirm findings;			• Discuss with ET and IEC and
	• Inform IEC and contractor;			propose mitigation measures to IEC
	• Check monitoring data, all plant,			and ER;
	equipment and Contractor's working			• Implement the agree mitigation
	methods;			measures.
	• If exceedance occurs at WSD salt			
	water intake, inform WSD;			
	• Discuss mitigation measures with			
	IEC and Contractor;			
	• Repeat measurement on next day of			
	exceedance.			
Action level being	• Identify the source(s) of impact by	• Discuss with ET and Contractor on	• Discuss with IEC on the proposed	• Inform the Engineer and confirm
exceeded by two	comparing the results with those	the mitigation measures;	mitigation measures;	notification of the non-compliance in
or	collected at the control stations as		• Make agreement on the mitigation	writing;
more consecutive	appropriate;		proposal;	• Rectify unacceptable practice;

		Act	tion	
Event	ET	IEC	ER	CONTRACTOR
sampling days at	• If exceedance is found to be caused	Review proposal on mitigation	• Assess the effectiveness of the	• Check all plant and equipment and
water sensitive	by the reclamation activities, repeat	measures submitted by Contractor	implemented mitigation measures.	consider changes of working
receiver(s)	in-situ measurement to confirm	and advise the ER accordingly;		methods;
	findings;	• Assess the effectiveness of the		• Discuss with ET, IEC and ER and
	• Inform IEC and contractor;	implemented mitigation measures.		propose mitigation measures to IEC
	• Check monitoring data, all plant,			and ER within 3 working days;
	equipment and Contractor's working			• Implement the agreed mitigation
	methods;			measures.
	• Discuss mitigation measures with			
	IEC and Contractor;			
	• Ensure mitigation measures are			
	implemented;			
	• Prepare to increase the monitoring			
	frequency to daily;			
	• If exceedance occurs at WSD salt			
	water intake, inform WSD;			
	• Repeat measurement on next day of			
	exceedance.			
Limit level being	• Identify the source(s) of impact by	• Discuss with ET and Contractor on	• Discuss with IEC, ET and	• Inform the ER and confirm
exceeded by one	comparing the results with those	the mitigation measures;	Contractor on the proposed	notification of the non-compliance in
sampling day at	collected at the control stations as	Review proposal on mitigation	mitigation measures;	writing;
water sensitive	appropriate;	measures submitted by Contractor	• Request Contractor to critically	• Rectify unacceptable practice;
receiver(s)		and advise the ER accordingly;	review the working methods;	

		Ac	tion	
Event	ET	IEC	ER	CONTRACTOR
	 If exceedance is found to be caused by the reclamation activities, repeat <i>in-situ</i> measurement to confirm findings; Inform IEC, contractor, AFCD and EPD Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level; If exceedance occurs at WSD salt 	Assess the effectiveness of the implemented mitigation measures.	 Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. 	 Check all plant and equipment and consider changes of working methods; Discuss with ET, IEC and ER and submit proposal of mitigation measures to IEC and ER within 3 working days of notification; Implement the agreed mitigation measures.
	water intake, inform WSD.			
Limit level being exceeded by two or more consecutive	• Identify the source(s) of impact by comparing the results with those collected at the control stations as appropriate;	 Discuss with ET and Contractor on the mitigation measures; Review proposal on mitigation measures submitted by Contractor 	 Discuss with IC(E), ET and Contractor on the proposed mitigation measures; Request Contractor to critically 	 Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice;
sampling days at		and advise the ER accordingly;	review the working methods;	

	Action			
Event	ET	IEC	ER	CONTRACTOR
water sensitive	• If exceedance is found to be caused	• Assess the effectiveness of the	• Make agreement on the mitigation	• Check all plant and equipment and
receiver(s)	by the reclamation activities, repeat	implemented mitigation measures.	measures to be implemented;	consider changes of working
	in-situ measurement to confirm		• Assess the effectiveness of the	methods;
	findings;		implemented mitigation measures;	• Discuss with ET, IC(E) and ER and
	• Inform IC(E), AFCD, contractor		• Consider and instruct, if necessary,	submit proposal of mitigation
	and EPD;		the Contractor to slow down or to	measures to IC(E) and ER within 3
	• Check monitoring data, all plant,		stop all or part of the marine work	working days of notification;
	equipment and Contractor's working		until no exceedance of Limit level.	• Implement the agreed mitigation
	methods;			measures;
	• Discuss mitigation measures with			• As directed by the Engineer, to
	IC(E), ER and Contractor;			slow down or to stop all or part of
	• Ensure mitigation measures are			the construction activities.
	implemented;			
	• Increase the monitoring frequency			
	to daily until no exceedance of Limit			
	level for two consecutive days;			
	• If exceedance occurs at WSD salt			
	water intake, inform WSD.			

Limit Levels and Action Plan for Landfill Gas

Parameter	Limit Level	Action	
Oxygen	<19%	Ventilate to restore oxygen to >19%	
	<18%	Stop works	
		• Evacuate personnel/prohibit entry	
		• Increase ventilation to restore oxygen to >19%	
Methane	>10% LEL (i.e.	Prohibit hot works	
	> 0.5% by	• Ventilate to restore methane to <10% LEL	
	volume)		
	>20% LEL (i.e.	Stop works	
	>1% by	• Evacuate personnel / prohibit entry	
	volume)	• Increase ventilation to restore methane to <10%	
		LEL	
Carbon	>0.5%	• Ventilate to restore carbon dioxide to < 0.5%	
Dioxide	>1.5%	Stop works	
		• Evacuate personnel / prohibit entry	
		• Increase ventilation to restore carbon dioxide to <	
		0.5%	

Event	Action				
	ET Leader	IEC	ER	Contractor	
Action	1. Check monitoring data;	1.Discuss monitoring with the ET	1. Discuss with the IEC additional	1. Inform the ER and confirm	
Level		and the Contractor;	monitoring	notification of the non-compliance	
Exceedance	2. Inform the IEC, ER and		requirements and any other	in writing;	
	Contractor of the findings;	2. Review proposals for additional	measures proposed by the ET;		
		Monitoring and any other		2. Discuss with the ET and the IEC	
	3. Increase the monitoring to at	measures submitted by the	2. Make agreement on the	and propose measures to the IEC	
	least once a month to confirm	Contractor and advise the ER	measures to be implemented.	and the ER;	
	findings;	accordingly.			
				3. Implement the agreed measures.	
	4. Propose mitigation				
	measures for consideration				
Limit Level	Undertake Steps 1-4 as in the	1.Discuss monitoring with the ET	1. Discuss with the IEC additional	1. Inform the ER and confirm	
Exceedance	Action Level Exceedance. If	and the Contractor;	monitoring	notification of the non-compliance	
	further exceedance of Limit Level,		requirements and any other	in writing;	
	suspend construction works until	2. Review proposals for additional	measures proposed by the ET;		
	an effective solution is identified.	Monitoring and any other		2. Discuss with the ET and the IEC	
		measures submitted by the	2. Make agreement on the	and propose measures to the IEC	
		Contractor and advise the ER	measures to be implemented.	and the ER;	
		accordingly.			
				3. Implement the agreed measures.	

Event and Action Plan for Coral Post-Translocation Monitoring

Mitigation Measures for Vibration Monitoring

Level	Contingency Action		
Alert Level	• The Engineer shall be informed immediately.		
	• The Contractor shall submit an investigation report to describe works being undertaken. To review the instrument responses and to study the cause of undue response.		
	• The Contractor shall review and increase the instrumentation monitoring and reporting frequency, if applicable.		
	• The Contractor shall submit a detailed plan of action describing the measures to be taken should the concerned instrument reach the action level to the Engineer for approval.		
Alarm Level	• The Engineer shall be informed immediately.		
	• The active construction works may require to be suspended subject to the Engineer's review of monitoring data.		
	• The Contractor shall immediately implement the measures as defined in the detailed plan of action to prevent further ground movement and groundwater drawdown etc.		
	• The Contractor shall prepare a detailed investigation report to study the cause of the exceedance		
	• The Contractor shall propose a contingency plan for the Engineer's approval in the event that alarm value is reached or exceeded		
	• The Contractor shall develop an emergency plan for the Engineer's approval in the event the applied contingency measures cannot control the situation.		
	• The Contractor shall meet the Engineer to discuss the instrument response and review the effectiveness of the implemented measures.		
	• The Contractor shall carry out design review of the works		

Action Level	• Consideration shall be given to suspend all active construction works and the Engineer shall be informed immediately
	• The Contractor shall immediately implement the measures defined in the contingency plan
	• The Contractor shall implement the measures defined in the emergency plan in the event that the applied contingency measures are found inadequate
	• The Contractor shall provide a complete report to examine the construction method and review the response of the instruments with full history of the monitoring data and construction activities and necessary design update
	• To resume the suspended activities, the Contractor shall demonstrate to the Engineer's satisfaction that it is safe to do so with approval from the Engineer.

APPENDIX O ECOLOGICAL MONITORING

App O – Ecological Monitoring

Reporting Period: Starting from December 2017

The post-translocation coral monitoring survey were completed in November 2017.