

Contract No. HY/2012/08 Tuen Mun – Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section

Forty-sixth Monthly Environmental Monitoring & Audit (EM&A) Report

13 September 2017

Environmental Resources Management

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13 September 2017

By Fax (2293 6300) and By Post

AECOM Supervising Officer Representative's Office No.8 Mong Fat Street, Tuen Mun, New Territories, Hong Kong

Attention: Messrs. Andy Westmoreland / Roger Man

Dear Sirs,

Re: Agreement No. CE 48/2011 (EP) Environmental Project Office for the HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities, and Tuen Mun-Chek Lap Kok Link – Investigation

Contract No. HY/2012/08 TM-CLKL Northern Connection Sub-sea Tunnel Section 46th Monthly EM&A Report for August 2017 (EP-354/2009/D)

Reference is made to the Monthly Environmental Monitoring and Audit (EM&A) Report (Aug. 2017) (ET's ref.: "0212330_46th Monthly EM&A_20170913.doc" dated 13 Sep. 2017) certified by the ET Leader and provided to us via e-mail on 13 Sep. 2017.

Please be informed that we have no adverse comments on the captioned Report. We write to verify the captioned submission in accordance with Condition 4.4 of EP-354/2009/D.

Thank you for your attention. Please do not hesitate to contact the undersigned or the ENPO Leader Mr. Y. H. Hui should you have any queries.

Yours sincerely,

Trag Failleong

F. C. Tsang Independent Environmental Checker Tuen Mun – Chek Lap Kok Link

c.c.

HyD – Mr. Stephen Chan (By Fax: 3188 6614) HyD – Mr. Vico Cheung (By Fax: 3188 6614) AECOM – Mr. Conrad Ng (By Fax: 3922 9797) ERM – Mr. Jovy Tam (By Fax: 2723 5660) Dragages – Bouygues JV - Mr. C. F. Kwong (By Fax: 2293 7499)

Internal: DY, YH, PSC, ENPO Site

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Environmental Resources Management

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This document presents the Forty-sixth Monthly EM&A Report for Tuen Mun – Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section.		Mr Craig Reid				
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EXECUTIVE SUMMARY

Under *Contract No. HY/2012/08*, Dragages – Bouygues Joint Venture (DBJV) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Northern Connection Sub-sea Tunnel Section of the Tuen Mun – Chek Lap Kok Link Project (TM-CLK Link Project) while AECOM Asia Company Limited was appointed by HyD as the Supervising Officer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET) in accordance with *Environmental Permit No. EP-354/2009/A*. Ramboll Environ Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO). Subsequent applications for variation of environmental permits (VEP), *EP-354/2009/B*, *EP-354/2009/C* and *EP-354/2009/D*, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

The construction phase of the Project commenced on 1 November 2013 and will tentatively be completed by the end of 2018. The impact monitoring of the EM&A programme, including air quality, water quality, marine ecological monitoring and environmental site inspections, were commenced on 1 November 2013.

This is the Forty-sixth Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 31 August 2017 for the *Contract No. HY/2012/08 Northern Connection Sub-sea Tunnel Section* (the "Project") in accordance with the Updated EM&A Manual of the TM-CLK Link Project. As informed by the Contractor, major activities in the reporting period included:

Land-based Works

- Box Culvert Extension at Works Area Portion N-A;
- Construction of North Ventilation Building Portion N-C;
- Construction of Cross Passage Tympanum TBM tunnel;
- Cross Passage Lining Installation TBM Tunnel;
- Excavation of Sub-sea Tunnel TBM tunnel;
- Corbel Construction TBM Tunnel; and
- Bulk Excavation Portion S-A.

There was no dredging, reclamation or marine sheet piling works in open waters during this reporting period.

A summary of monitoring and audit activities conducted in the reporting period is listed below:

24-hour TSP Monitoring	10 sessions
1-hour TSP Monitoring	11 sessions
Impact Dolphin Monitoring	2 sessions
Joint Environmental Site Inspection	5 sessions

Implementation of Marine Mammal Exclusion Zone

There was no dredging, reclamation or marine sheet piling works in open waters during this reporting period. Thus, Passive Acoustic Monitoring (PAM) and the day-time monitoring of Dolphin Exclusion Zone (DEZ) by dolphin observers were not in effect during the reporting period.

Summary of Breaches of Action/Limit Levels

Breaches of Action and Limit Levels for Air Quality

One (1) Action Level exceedance and zero (0) Limit Level exceedance of 1hour TSP was recorded in the air quality monitoring of this reporting month. Investigation report will be provided in the next monthly EM&A report.

Breaches of Action and Limit Levels for Dolphin Monitoring

Due to monthly variation in dolphin occurrence within the survey area, it would be more appropriate to draw conclusion on whether any unacceptable impacts on dolphins have been detected in relation to the construction activities of this Project in the quarterly EM&A reports, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period and baseline monitoring period will be made.

Environmental Complaints, Non-compliance & Summons

No non-compliance with EIA recommendations, EP conditions and other requirements associated with the construction of this Contract was recorded in this reporting period.

No environmental complaint was received in this reporting period.

No environmental summons was received in this reporting period.

Summary of Marine Travel Route record

No non-compliance with EIA recommendations, EP conditions and other requirements associated with the marine travel route record of this Contract was recorded from April to August.

Reporting Change

There was no reporting change required in the reporting period.

Upcoming Works for the Next Reporting Month

Works to be undertaken in the next monitoring period of September 2017 include the following:

Land-based Works

- Box Culvert Extension at Works Area Portion N-A;
- Construction of North Ventilation Building Portion N-C;
- Construction of Cross Passage Tympanum TBM tunnel;
- Cross Passage Lining Installation TBM Tunnel;
- Excavation of Sub-sea Tunnel TBM tunnel;
- Corbel Construction TBM Tunnel; and
- Bulk Excavation Portion S-A.

There will be no dredging, reclamation or marine sheet piling works in open waters in the next monitoring period.

Future Key Issues

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of September 2017 are mainly associated with dust, marine ecology and waste management issues.

1.1 BACKGROUND

According to the findings of the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by the Transport Department, Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway would be operating beyond capacity after 2016. This forecast has been based on the estimated increase in cross boundary traffic, developments in the Northwest New Territories (NWNT), and possible developments in North Lantau, including the Airport developments, the Lantau Logistics Park (LLP) and the Hong Kong – Zhuhai – Macao Bridge (HZMB). In order to cope with the anticipated traffic demand, two new road sections between NWNT and North Lantau – Tuen Mun – Chek Lap Kok Link (TM-CLKL) and Tuen Mun Western Bypass (TMWB) are proposed.

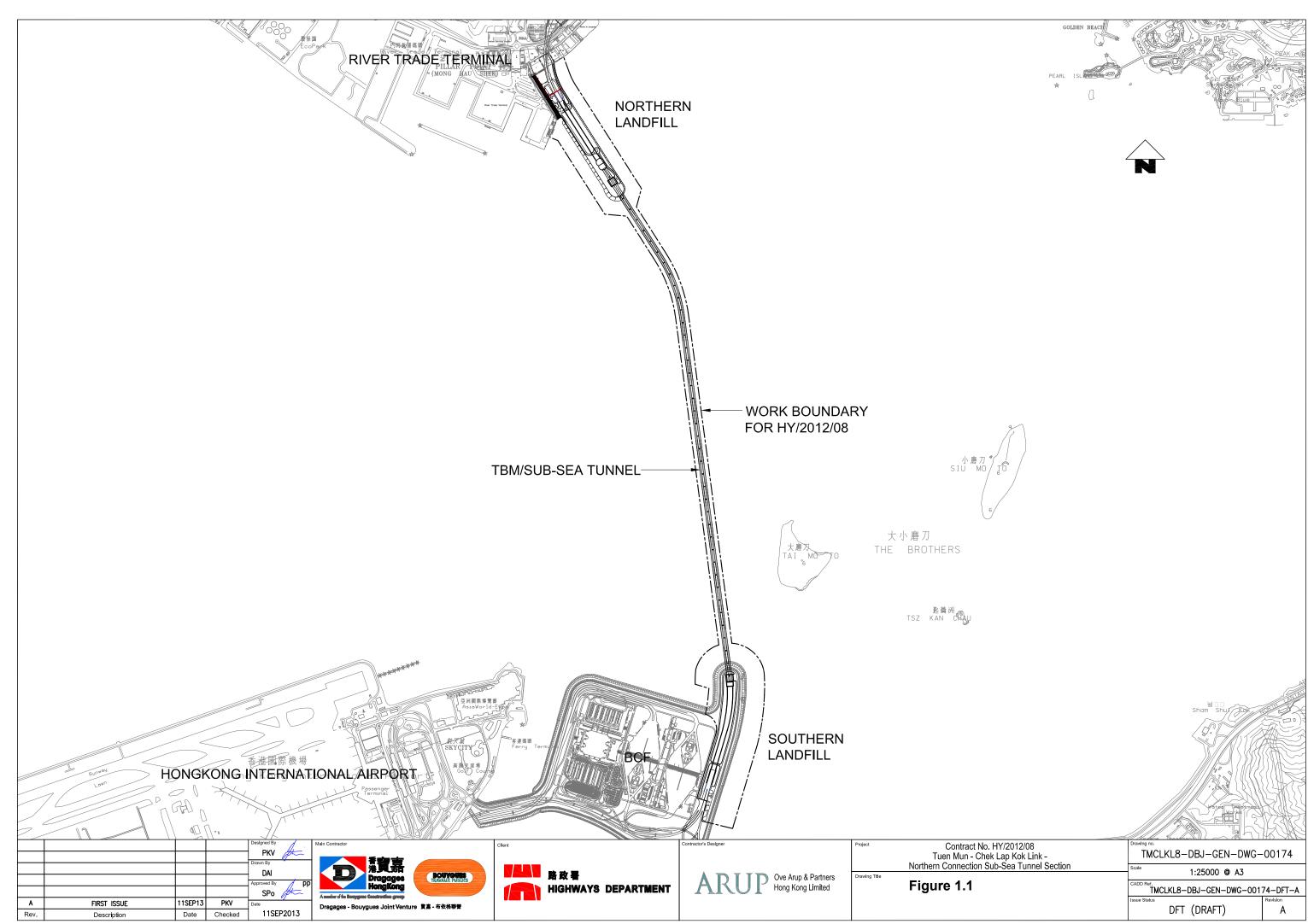
An Environmental Impact Assessment (EIA) of TM-CLKL (the Project) was prepared in accordance with the EIA Study Brief (No. ESB-175/2007) and the *Technical Memorandum of the Environmental Impact Assessment Process (EIAO-TM*). The EIA Report was submitted under the Environmental Impact Assessment Ordinance (EIAO) in August 2009. Subsequent to the approval of the EIA Report (EIAO Register Number AEIAR-146/2009), an Environmental Permit (EP-354/2009) for TM-CLKL was granted by the Director of Environmental Protection (DEP) on 4 November 2009, and EP variation (VEP) (EP-354/2009/A) was issued on 8 December 2010. Subsequent applications for variation of environmental permits (VEPs), *EP-354/2009/B, EP-354/2009/C* and *EP-354/2009/D*, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

Under *Contract No. HY/2012/08*, Dragages – Bouygues Joint Venture (DBJV) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Northern Connection Sub-sea Tunnel Section of TM-CLKL while AECOM Asia Company Limited was appointed by HyD as the Supervising Officer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET). Ramboll Environ Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO).

Layout of the Contract components is presented in Figure 1.1.

The construction phase of the Contract commenced on 1 November 2013 and will tentatively be completed by 2018. The impact monitoring phase of the EM&A programme, including air quality, water quality, marine ecological monitoring and environmental site inspections, were commenced on 1 November 2013.

4



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1.2 SCOPE OF REPORT

This is the Forty-sixth Monthly EM&A Report under the *Contract No. HY*/2012/08 *Tuen Mun – Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section.* This report presents a summary of the environmental monitoring and audit works in August 2017.

1.3 ORGANIZATION STRUCTURE

The organization structure of the Contract is shown in *Appendix A*. The key personnel contact names and contact details are summarized in *Table 1.1* below.

Table 1.1Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
Highways Department	Engr 22/HZMB	Chow Man Lung, Andrew	2762 4110	2762 4110
SOR (AECOM Asia Company	Chief Resident Engineer	Roger Man	2293 6388	2293 6300
Limited)	Engineer	Andrew Westmoreland	2293 6360	2293 6300
ENPO / IEC (Ramboll Environ Hong	ENPO Leader	Y.H. Hui	3465 2850	3465 2899
Kong Ltd.)	IEC	Dr. F.C. Tsang	3465 2851	3465 2899
Contractor (Dragages – Bouygues Joint Venture)	Environmental Officer	Bryan Lee	2293 7323	2293 7499
	24-hour complaint hotline	Rachel Lam	2293 7330	
ET (ERM-HK)	ET Leader	Jovy Tam	2271 3113	2723 5660

1.4 SUMMARY OF CONSTRUCTION WORKS

The construction phase of this Contract was commenced on 1 November 2013. The construction programme is shown in *Appendix B*.

As per DBJV's information, details of major construction works carried out in this reporting period are summarized in *Table 1.2*.

The general layout plan of the site showing the detailed works areas is shown in *Figure 1.2*. The Environmental Sensitive Receivers in the vicinity of the Project are shown in *Figure 1.3*.

The implementation schedule of environmental mitigation measures is presented in *Appendix C*.

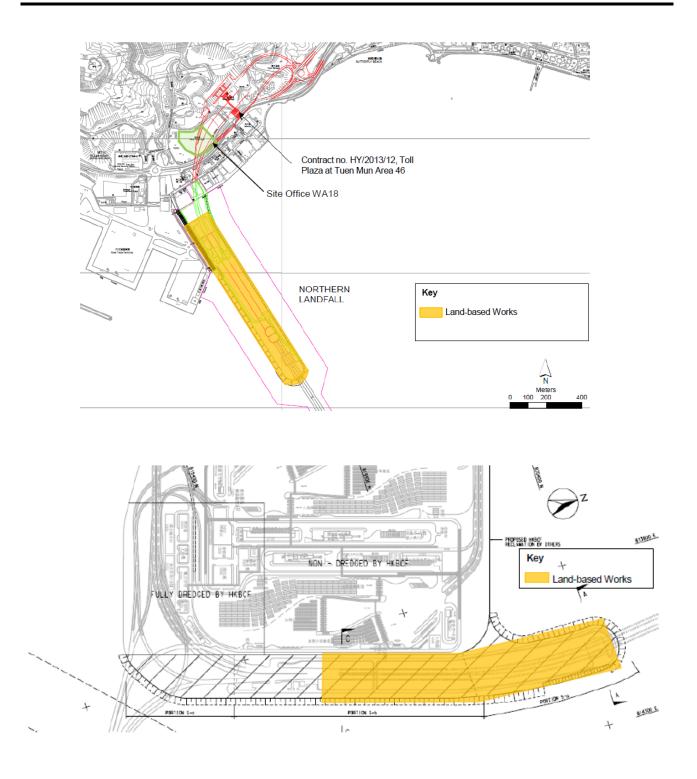
Table 1.2Summary of Construction Activities Undertaken during the Reporting Period

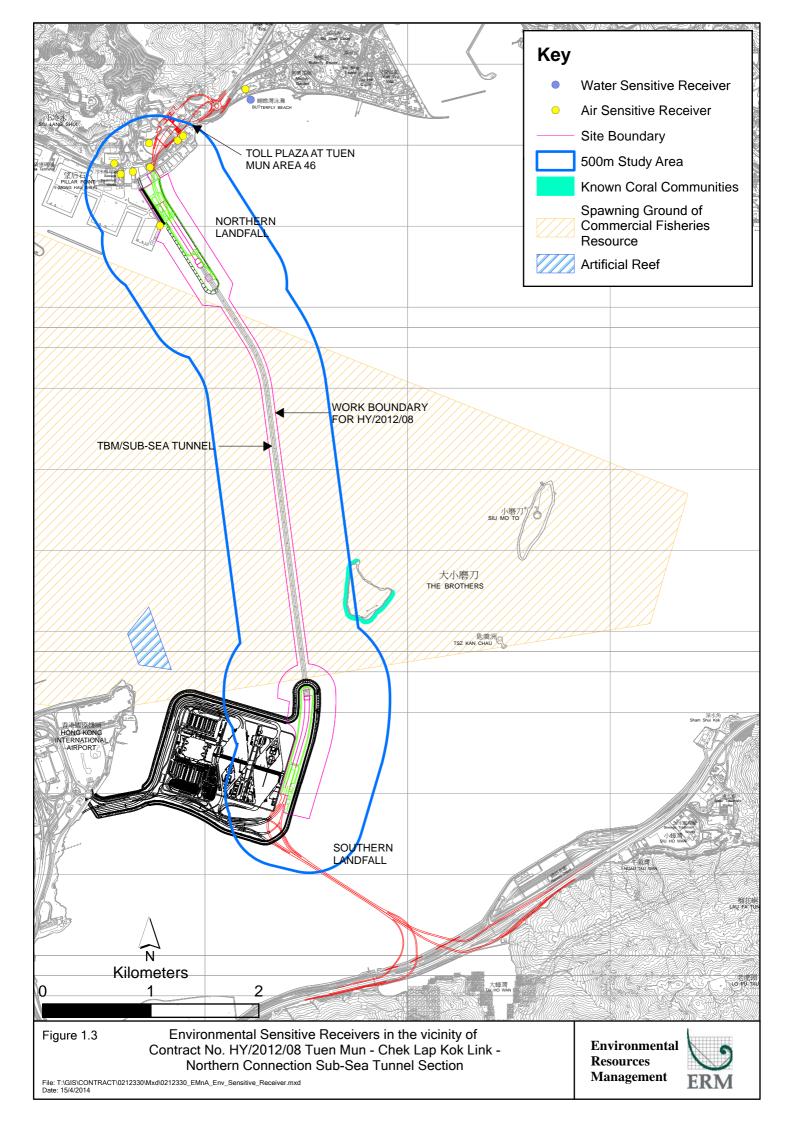
Construction Activities Undertaken

Land-based Works

- Box Culvert Extension at Works Area Portion N-A;
- Construction of North Ventilation Building Portion N-C;
- Construction of Cross Passage Tympanum TBM tunnel;
- Cross Passage Lining Installation TBM Tunnel;
- Excavation of Sub-sea Tunnel TBM tunnel;
- Corbel Construction TBM Tunnel; and
- Bulk Excavation Portion S-A.

There was no dredging, reclamation or marine sheet piling works in open waters during this reporting period.





2

The EM&A programme required environmental monitoring for air quality, water quality and marine ecology as well as environmental site inspections for air quality, noise, water quality, waste management, marine ecology and landscape and visual impacts. The EM&A requirements and related findings for each component are summarized in the following sections

2.1 AIR QUALITY

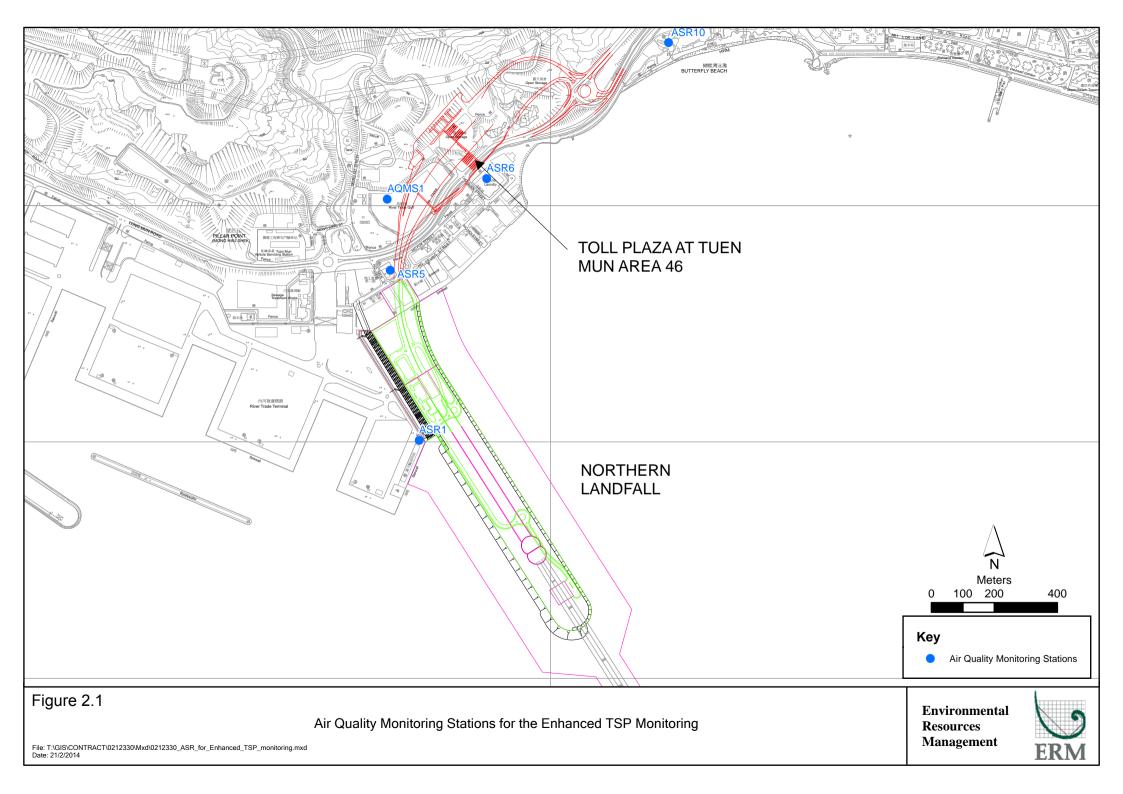
2.1.1 Monitoring Requirements and Equipment

In accordance with the Updated EM&A Manual and the Enhanced TSP Monitoring Plan, impact 1-hour TSP monitoring was conducted three (3) times every six (6) days and impact 24-hour TSP monitoring was carried out once every six (6) days when the highest dust impact was expected. 1-hr and 24hr TSP monitoring frequency was increased to three times per day every three days and daily every three days, respectively, as excavation works for launching shaft commenced on 24 October 2014.

High volume samplers (HVSs) were used to carry out the 1-hour and 24-hour TSP monitoring on 1, 4, 7, 10, 13, 16, 19, 22, 25, 28 and 31 August 2017 at the five (5) air quality monitoring stations in accordance with the requirements stipulated in the Updated EM&A Manual (*Figure 2.1; Table 2.1*). Wind meter was installed at the rooftop of ASR5 for logging wind speed and wind direction. Details of the equipment deployed are provided in *Table 2.2*. Copies of the calibration certificates for the equipment are presented in *Appendix E*.

Table 2.1	Locations of Impact Air Quality Monitoring Stations and Monitoring Dates
	in this Reporting Period

Monitoring Station	Monitoring Dates	Location	Description	Parameters & Frequency
ASR1	1, 4, 7, 10, 13, 16, 19,	Tuen Mun	Office	TSP monitoring
	22, 25, 28 and 31	Fireboat Station		 1-hour Total Suspended
	August 2017			Particulates (1-hour TSP,
ASR5	-	Pillar Point Fire	Office	μ g/m ³), 3 times in every 6 days
		Station		• 24-hour Total Suspended
				Particulates (24-hour TSP,
AQMS1		Previous River	Bare ground	μ g/m ³), daily for 24-hour in
		Trade Golf		every 6 days
				Enhanced TSP monitoring
ASR6		Butterfly Beach	Office	(commenced on 24 October 2014)
		Laundry		1-hour Total Suspended
				Particulates (1-hour TSP,
ASR10		Butterfly Beach	Recreational	μ g/m ³), 3 times in every 3 days
		Park	uses	• 24-hour Total Suspended
				Particulates (24-hour TSP,
				μ g/m ³), daily for 24-hour in
				every 3 days



Equipment	Brand and Model
High Volume Sampler (1-hour TSP and 24-hour TSP)	Tisch Environmental Mass Flow Controlled Total Suspended Particulate (TSP) High Volume Sampler (Model No. TE-5170)
Wind Meter	Davis (Model: Vantage Pro 2 (S/N: AS160104014)
Wind Anemometer for calibration	Lutron (Model No. AM-4201)

2.1.2 Action & Limit Levels

The Action and Limit Levels of the air quality monitoring is provided in *Appendix D*. The Event and Action plan is presented in *Appendix J*.

2.1.3 Monitoring Schedule for the Reporting Month

The schedule for air quality monitoring in August 2017 is provided in *Appendix F*. 24-hour TSP monitoring was cancelled on 22 August 2017 due to adverse weather.

2.1.4 *Results and Observations*

The monitoring results for 1-hour TSP and 24-hour TSP are summarized in *Tables 2.3* and 2.4, respectively. Detailed impact air quality monitoring results and graphical presentations are presented in *Appendix G*.

Table 2.3Summary of 1-hour TSP Monitoring Results in this Reporting Period

Station	Average (µg/m³)	Range (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)
ASR1	113	43 - 360	331	500
ASR5	151	27 - 335	340	500
AQMS1	82	10 - 202	335	500
ASR6	123	30 - 290	338	500
ASR10	70	23 - 164	337	500

Table 2.4Summary of 24-hour TSP Monitoring Results in this Reporting Period

Station	Average (µg/m³)	Range (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)
ASR1	74	43 - 155	213	260
ASR5	72	30 - 163	238	260
AQMS1	42	24 - 69	213	260
ASR6	64	38 - 111	238	260
ASR10	40	26 - 71	214	260

The weather condition during the monitoring period varied from sunny to cloudy. The major dust sources in the reporting period included construction activities under the Contract as well as nearby traffic emissions.

A total of 11 1-hour TSP and 10 24-hour monitoring were undertaken in which one (1) Action Level exceedances of 1-hr TSP were recorded in this reporting month. No Action or Limit Level exceedances for 24-hr TSP were record.

Meteorological information collected at the ASR5, including wind speed and wind direction, is provided in *Appendix H*.

2.2 WATER QUALITY MONITORING

Since marine works for Phase II reclamation of Northern Landfall were substantially completed in the end of May and will not resume tentatively until December 2017, no impact marine water quality monitoring is required for the reporting period. Impact marine water quality monitoring for Northern Landfall will resume during the marine seawall construction at Northern Landfall in December 2017 in accordance with the requirement in the Contract Specific EM&A Manual.

2.3 DOLPHIN MONITORING

2.3.1 Monitoring Requirements

Impact dolphin monitoring is required to be conducted by a qualified dolphin specialist team to evaluate whether there have been any effects on the dolphins. In order to fulfil the EM&A requirements and make good use of available resources, the on-going impact line transect dolphin monitoring data collected by HyD's *Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge. Hong Kong Link Road - Section between Scenic Hill and Hong Kong Boundary Crossing Facilities* on the monthly basis is adopted to avoid duplicates of survey effort.

2.3.2 Monitoring Equipment

Table 2.5 summarises the equipment used for the impact dolphin monitoring.

Equipment	Model
Global Positioning System (GPS)	Garmin 18X-PC
	Geo One Phottix
Camera	Nikon D90 300m 2.8D fixed focus
	Nikon D90 20-300m zoom lens
Laser Binocular	Infinitor LRF 1000
Marine Binocular	Bushell 7 x 50 marine binocular with compass and reticules

Table 2.5Dolphin Monitoring Equipment

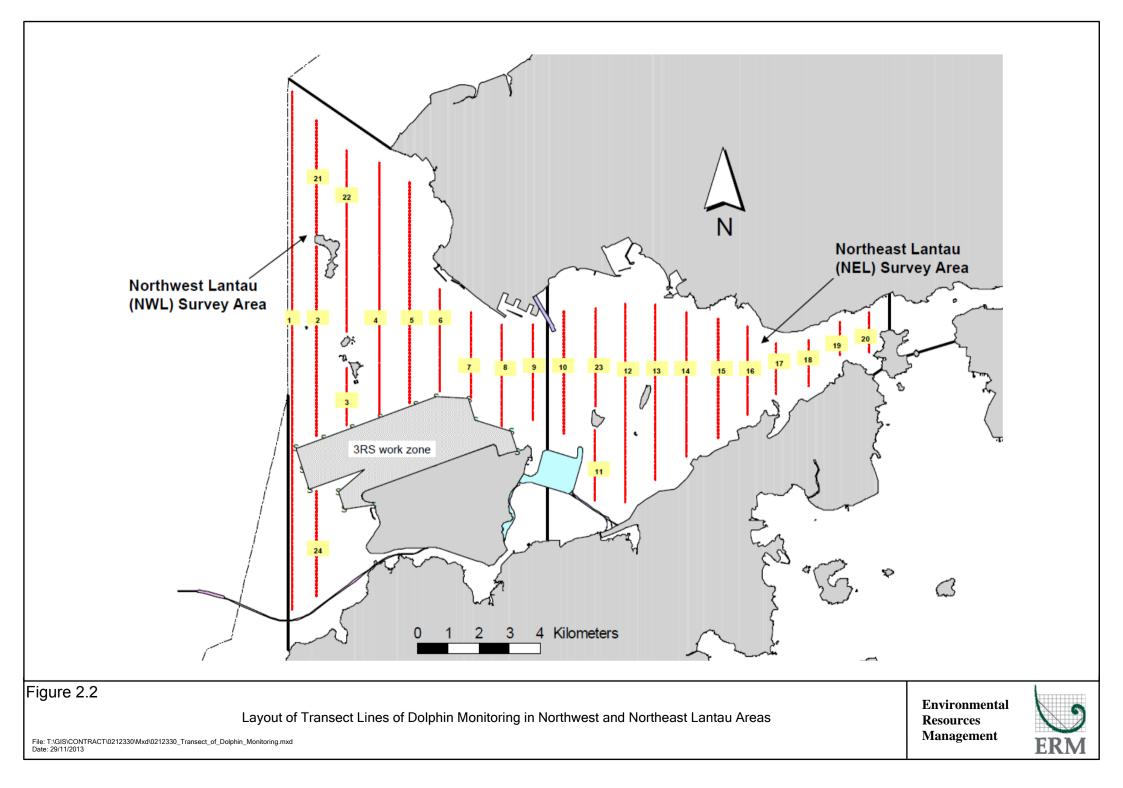
Equipment	Model
Vessel for Monitoring	65 foot single engine motor vessel with
	viewing platform 4.5m above water level

2.3.3 Monitoring Parameter, Frequencies & Duration

Dolphin monitoring should cover all transect lines in Northeast Lantau (NEL) and the Northwest Lantau (NWL) survey areas twice per month throughout the entire construction period. The monitoring data should be compatible with, and should be made available for, long-term studies of small cetacean ecology in Hong Kong. In order to provide a suitable long-term dataset for comparison, identical methodology and line transects employed in baseline dolphin monitoring was followed in the impact dolphin monitoring.

2.3.4 Monitoring Location

The impact dolphin monitoring was carried out in the NEL and NWL along the line transect as depicted in *Figure 2.2*. The co-ordinates of all transect lines are shown in *Table 2.6* below.



Line No.		Easting	Northing		Line No.	Easting	Northing
1	Start Point	804671	815456	13	Start Point	816506	819480
1	End Point	804671	831404	13	End Point	816506	824859
2	Start Point	805476	820800*	14	Start Point	817537	820220
2	End Point	805476	826654	14	End Point	817537	824613
3	Start Point	806464	821150*	15	Start Point	818568	820735
3	End Point	806464	822911	15	End Point	818568	824433
4	Start Point	807518	821500*	16	Start Point	819532	821420
4	End Point	807518	829230	16	End Point	819532	824209
5	Start Point	808504	821850*	17	Start Point	820451	822125
5	End Point	808504	828602	17	End Point	820451	823671
6	Start Point	809490	822150*	18	Start Point	821504	822371
6	End Point	809490	825352	18	End Point	821504	823761
7	Start Point	810499	822000*	19	Start Point	822513	823268
7	End Point	810499	824613	19	End Point	822513	824321
8	Start Point	811508	821123	20	Start Point	823477	823402
8	End Point	811508	824254	20	End Point	823477	824613
9	Start Point	812516	821303	21	Start Point	805476	827081
9	End Point	812516	824254	21	End Point	805476	830562
10	Start Point	813525	821176	22	Start Point	806464	824033
10	End Point	813525	824657	22	End Point	806464	829598
11	Start Point	814556	818853	23	Start Point	814559	821739
11	End Point	814556	820992	23	End Point	814559	824768
12	Start Point	815542	818807	24*	Start Point	805476*	815900*
12	End Point	815542	824882	24*	End Point	805476*	819100*

Table 2.6Impact Dolphin Monitoring Line Transect Co-ordinates

Remarks: The coordinates of several starting and ending points have been revised due to the presence of a work zone to the north of the airport platform with intense construction activities in association with the construction of the third runway expansion for the Hong Kong International Airport. Co-ordinates in red and marked with asterisk are revised co-ordinates of transect line.

2.3.5 Action & Limit Levels

The Action and Limit levels of impact dolphin monitoring are shown in *Appendix D*. The Event and Action plan is presented in *Appendix J*.

2.3.6 Monitoring Schedule for the Reporting Month

Dolphin monitoring was carried out on 7, 15, 21 and 31 of August 2017. The dolphin monitoring schedule for the reporting month is shown in *Appendix F*.

2.3.7 Results & Observations

A total of 269.81 km of survey effort was collected, with 100% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) in August 2017. Among the two areas, 103.58 km and 166.23 km of survey effort were collected from NEL and NWL survey areas, respectively. The total survey effort conducted on primary and secondary lines were 191.08 km and 78.73 km respectively. The survey efforts are summarized in *Appendix I*.

Eight groups of 18 Chinese White Dolphins sightings were recorded during the two sets of surveys in August 2017. All dolphin sightings were made in NWL, while none was sighted in NEL. All dolphin sightings were made during on-effort search and seven of the eight dolphin sightings was made on primary lines. These sightings were not associated with any operating fishing vessel.

No dolphin sighting was made in the proximity of the TM-CLKL alignment. The distribution of dolphin sightings during the reporting month is shown in *Figure 2.3*.

Encounter rates of Chinese White Dolphins are deduced from the survey effort and on-effort sighting data made under favourable conditions (Beaufort 3 or below) in August 2017 with the results present in *Tables 2.7* and *2.8*.

Table 2.7Individual Survey Event Encounter Rates

		Encounter rate (STG)	Encounter rate (ANI)	
		(no. of on-effort dolphin	(no. of dolphins from all on-	
		sightings per 100 km of	effort sightings per 100 km of	
		survey effort)	survey effort)	
		Primary Lines Only	Primary Lines Only	
NEL	Set 1: August 7th / 15th	0.0	0.0	
NEL	Set 2: August 21st / 31st	0.0	0.0	
NWL	Set 1: August 7th / 15th	5.0	6.6	
INVVL	Set 2: August 21st / 31st	6.6	18.1	

Note: Dolphin Encounter Rates are deduced from the Two Sets of Surveys (Two Surveys in Each Set) in August 2017 in Northeast (NEL) and Northwest Lantau (NWL)

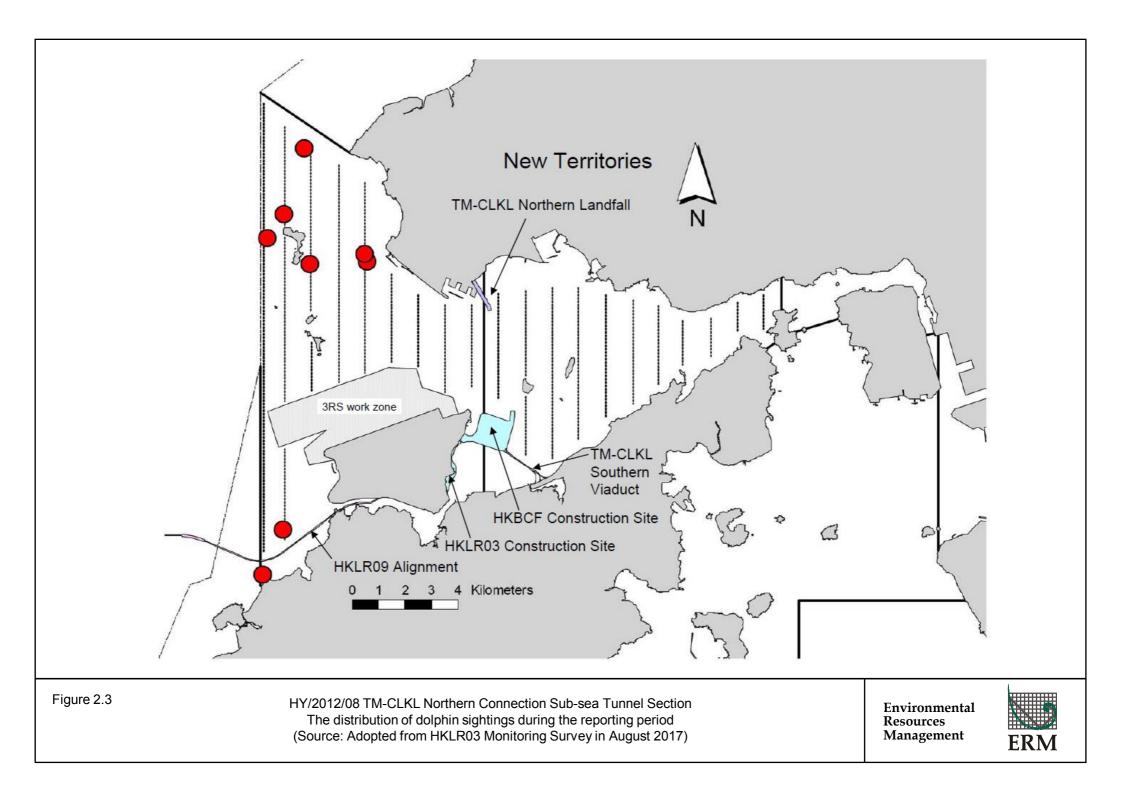


Table 2.8Monthly Average Encounter Rates

	Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)		Encounter rate (ANI) (no. of dolphins from all on- effort sightings per 100 km of survey effort)		
	Primary Both Primary Lines Only and Secondary Lines		Primary Lines Only	Both Primary and Secondary Lines	
Northeast Lantau	0.0	0.0	0.0	0.0	
Northwest Lantau	5.8	4.8	12.4	10.8	

Note: Overall dolphin encounter rates (sightings per 100 km of survey effort) from all four surveys are conducted in August 2017 on primary lines only as well as both primary lines and secondary lines in Northeast and Northwest Lantau.

Due to monthly variation in dolphin occurrence within the survey area, it would be more appropriate to draw conclusion on whether any unacceptable impacts on dolphins have been detected in relation to the construction activities of this Project in the quarterly EM&A reports, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period and baseline monitoring period will be made.

2.3.8 Implementation of Marine Mammal Exclusion Zone

There was no dredging, reclamation or marine sheet piling works in open waters during this reporting period. Thus, Passive Acoustic Monitoring (PAM) and the day-time monitoring of Dolphin Exclusion Zone (DEZ) by dolphin observers were not in effect during the reporting period.

2.4 EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting month, five (5) site inspections were carried out on 2, 9, 16, 24 and 30 August 2017.

Key observations and recommendations during the site inspections in this reporting period are summarized in *Table 2.9*.

Table 2.9	Specific Observations and Recommendations during the Weekly Site
	Inspection in this Reporting Month

Inspection Date	Observations	Recommendations/ Remarks
2 August 2017	 Works Area - Portion N-C NRMM label should be displayed on the the road works machine. NRMM label should be displayed on the excavator. Works Area - Portion N-A Drip tray should be provided to the chemical container. Reminder from SOR Works Area - Portion S-B Water barriers should have lids to prevent breeding of mosquitoes. 	 Works Area - Portion N-C The Contractor was reminded to display NRMM label on the the road works machine. The Contractor was reminded to display NRMM label on the excavator. Works Area - Portion N-A The Contractor was reminded to provide drip tray to the chemical container. Reminder from SOR Works Area - Portion S-B The Contractor was reminded to cover the water barriers to prevent breeding of
9 August 2017	 Works Area - TBM tunnel Cement bags should be covered by tarpaulin sheets. Drip tray should be provided to the chemical container. Drip tray should be provided to the air compressor. Reminder from SOR Works Area - Portion S-B Water barriers should have lids to prevent breeding of mosquitoes. 	 mosquitoes. Works Area - TBM tunnel The Contractor was reminded to cover the cement bags by tarpaulin sheets. The Contractor was reminded to provide drip tray to the chemical container. The Contractor was reminded to provide drip tray to the air compressor. Reminder from SOR Works Area - Portion S-B The Contractor was reminded to cover the water barriers to prevent breeding of mosquitoes.
16 August 2017	 Works Area - Portion N-C Drip tray should be provided to the chemical container. Drip tray should be provided to the chemical container. NRMM label should be displayed on the equipment. Works Area - Portion S-B Stagnant water should be pumped to wastewater treatment facilities. 	 Works Area - Portion N-C The Contractor was reminded to provide drip tray to the chemical container. The Contractor was reminded to provide drip tray to the chemical container. The Contractor was reminded to display NRMM label on the equipment. Works Area - Portion S-B The Contractor was reminded to pump the stagnent water to wastewater treatment facilities.

Inspection Date	Observations	Recommendations/ Remarks
24 August 2017	 Works Area - Portion N-C Material bags should be covered with tarpaulin sheet. Works Area - Portion N-A Slope of surcharge should be covered with tarpaulin sheet. Floating rubbish should be removed. Reminder from SOR Works Area - Portion N-C Stagnant water in the container should be removed. 	 Works Area - Portion N-C The Contractor was reminded to cover the material bags with tarpaulin sheet. Works Area - Portion N-A The Contractor was reminded to cover the slope of surcharge with tarpaulin sheet. The Contractor was reminded to remove the floating rubbish. Reminder from SOR Works Area - Portion N-C The Contractor was reminded to remove the stagnant water in the container.
30 August 2017	 Works Area - Portion N-A Slope of surcharge should be covered with tarpaulin sheet. Works Area - Portion S-B Accumulated rubbish in the skip should be removed. Reminder from SOR Works Area - Portion S-B Stagnant water in the drum should be removed. 	 Works Area - Portion N-A The Contractor was reminded to cover the slope of surcharge with tarpaulin sheet. Works Area - Portion S-B The Contractor was reminded to remove the accumulated rubbish in the skip. Reminder from SOR Works Area - Portion S-B The Contractor was reminded to remove the stagnant water in the drum.

The Contractor has rectified all of the observations as identified during environmental site inspections in the reporting month.

2.5 WASTE MANAGEMENT STATUS

The Contractor had submitted application form for registration as chemical waste producer under the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.

Wastes generated during this reporting period included mainly construction wastes (inert and non-inert). Reference has been made to the waste flow table prepared by the Contractor (*Appendix L*). The quantities of different types of wastes are summarized in *Table 2.10*.

Table 2.10Quantities of Different Waste Generated in the Reporting Month

Month/Year	Inert Construction		Non-inert Construction	Recyclable Materials ^(c)	Chemical Wastes (kg) -	Marine Sediment (m ³)	
	Waste ^(a) (tonnes)	Waste Re- used (tonnes)	Waste ^(b) (tonnes)	(kg)		Category L	Category M (M _p & M _f)
August 2017	1,624	0	305	0	0	0	0

Notes:

(a) Inert construction wastes include hard rock and large broken concrete, and materials disposed as public fill.

(b) Non-inert construction wastes include general refuse disposed at landfill.

(c) Recyclable materials include metals, paper, cardboard, plastics, timber and others.

The Contractor was advised to properly maintain on site C&D materials and waste collection, sorting and recording system, dispose of C&D materials and wastes at designated ground and maximize reuse/ recycle of C&D materials

and wastes. The Contractor was also reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.

For chemical waste containers, the Contractor was reminded to treat properly and store temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.

2.6 Environmental Licenses and Permits

The status of environmental licensing and permit is summarized in *Table 2.11* below.

License/ Permit	License or Permit No.	Date of Issue	Date of Expiry	License/ Permit Holder	
Environmental Permit	EP-354/2009/D	13 March 2015	Throughout the Contract	HyD	Application for VEP on 3 March 2015 to
Construction Dust	363510	19 August 2013	Throughout the Contract	DBJV	supersede EP-354/2009/C Northern Landfall
Notification	565510	19 August 2015	Throughout the Contract	DDJV	Normern Landian
Notification					
Construction Dust	403620	10 June 2016	Throughout the Contract	DBJV	Southern Landfall
Notification					
Chemical Waste	5213-422-D2516-02	18 January 2017	Throughout the Contract	DBJV	Northern Landfall
Registration			0	·	
Chemical Waste	5213-951-D2591-01	25 May 2016	Throughout the Contract	DBJV	Southern Landfall
Registration					
Construction Waste	7018108	28 August 2013	Throughout the Contract	DBJV	Waste disposal in Contract No. HY/2012/08
Disposal Account					
Waste Water Discharge	WT00017707-2013	18 November 2013	30 November 2018	DBJV	For site WA18
License					
Waste Water Discharge	WT00018433-2014	6 March 2014	31 March 2019	DBJV	N6 Site
License					
Waste Water Discharge	WT00019248-2014	5 June 2014	30 June 2019	DBJV	For site Portion N6 and Reclamation Area E
License		2		,	
Marche Marchen D's sheene	WT0000F044 0016	15 Dagarda a 2017	21 Danual - 2001		
Waste Water Discharge License	WT00025944-2016	15 December 2016	31 December 2021	DBJV	Southern Landfall
License					
Construction Noise Permit	GW-RW0247-17	19 May 2017	9 November 2017	DBJV	For Urmston Road in front of Pillar Point
Construction Noise Permit	GW-RW0279-17	13 June 2017	12 December 2017	DBJV	WA23 @ Tsing Yi
Construction Noise Permit	GW-RW0143-17	29 March 2017	28 September 2017	DBJV	For Portion N6
Construction Noise Permit	PP-RS0019-17	31 August 2017	30 November 2017	DBJV	Southern Landfall (Percussive Piling)
Construction Noise Permit	GW-RS0713-17	1 September 2017	28 February 2018	DBJV	Southern Landfall

Table 2.11Summary of Environmental Licensing and Permit Status

ENVIRONMENTAL RESOURCES MANAGEMENT 0212330_46TH MONTHLY EM&A_20170913.DOC DBJV

13 SEPTEMBER 2017

License/ Permit	License or Permit No.	Date of Issue	Date of Expiry	License/ Permit Holder Remarks				
HyD = Highways Department								
DBJV = Dragages - Bou	DBJV = Dragages – Bouygues Joint Venture							
VEP = Variation of Envi	VEP = Variation of Environmental Permit							

2.7 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

In response to the site audit findings, the Contractors carried out all corrective actions.

A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in *Appendix C*. The necessary mitigation measures relevant to this Contract were implemented properly.

2.8 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

One (1) Action Level of air quality exceedances was recorded in the air quality monitoring of this reporting month. Investigation report will be provided in the next monthly EM&A report.

Cumulative statistics are provided in *Appendix K*.

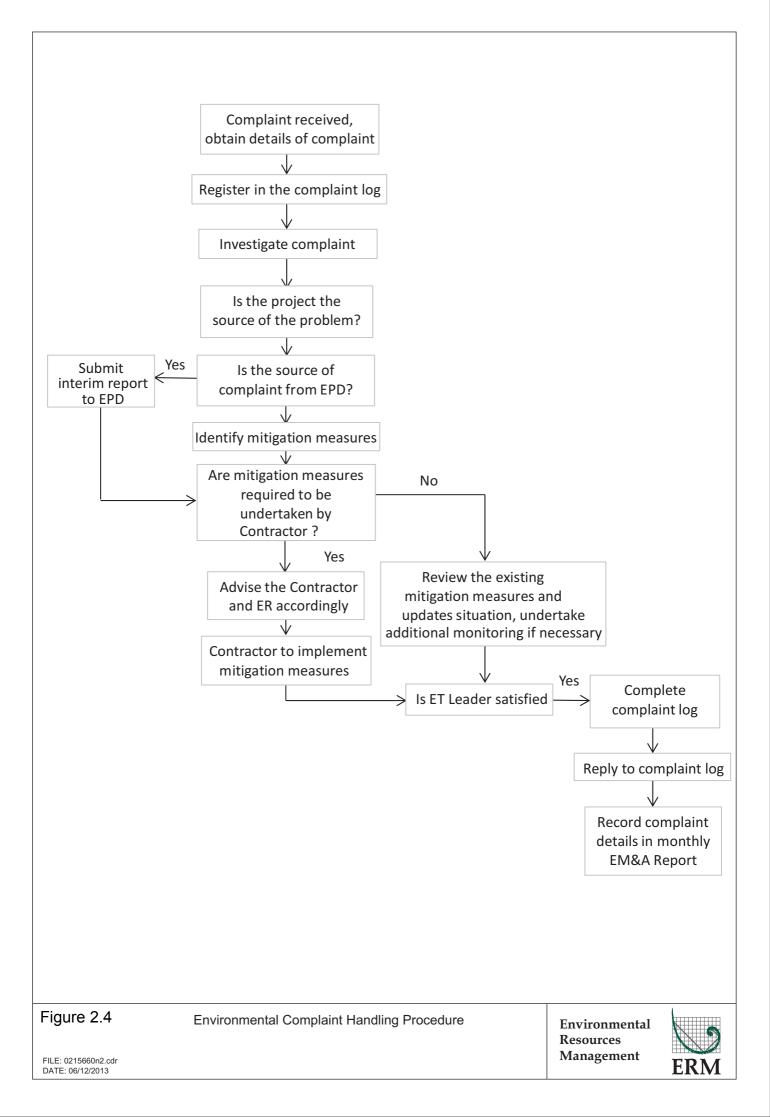
2.9 SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

The Environmental Complaint Handling Procedure is provided in Figure 2.4.

No environmental complaint was received in this reporting period.

No environmental summons was received in this reporting period.

Statistics on complaints, notifications of summons and successful prosecutions are summarized in *Appendix K*.



3.1 CONSTRUCTION ACTIVITIES FOR THE COMING MONTH

As informed by the Contractor, the major works for the Project in September 2017 are summarized in *Table 3.1*.

Table 3.1Construction Works to Be Undertaken in the Coming Month

Works to be undertaken

Land-based Works

- Box Culvert Extension at Works Area Portion N-A;
- Construction of North Ventilation Building Portion N-C;
- Construction of Cross Passage Tympanum TBM tunnel;
- Cross Passage Lining Installation TBM Tunnel;
- Excavation of Sub-sea Tunnel TBM tunnel;
- Corbel Construction TBM Tunnel; and
- Bulk excavation Portion S-A.

3.2 KEY ISSUES FOR THE COMING MONTH

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of September 2017 are mainly associated with dust, marine ecology and waste management issues.

3.3 MONITORING SCHEDULE FOR THE COMING MONTH

The tentative schedule for environmental monitoring in September 2017 is provided in *Appendix F*.

CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

This Forty-sixth Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 31 August 2017, in accordance with the Updated EM&A Manual and the requirements of EP-354/2009/D.

Air quality (including 1-hour TSP and 24-hour TSP) and dolphin monitoring were carried out in this reporting month. One (1) Action Level exceedance and zero (0) Limit Level exceedance of 1-hour TSP was recorded in the air quality monitoring of this reporting month. Investigation report will be provided in the next monthly EM&A report.

Eight groups of 18 Chinese White Dolphins sightings were recorded during the two sets of surveys in August 2017. All dolphin sightings were made in NWL, while none was sighted in NEL. All dolphin sightings were made during on-effort search and seven of the eight dolphin sightings was made on primary lines. These sightings were not associated with any operating fishing vessel.

Environmental site inspection was carried out five (5) times in August 2017. Remedial actions recommended for the deficiencies identified during the site audits were properly implemented by the Contractor.

No non-compliance event was recorded during the reporting period.

No environmental complaint was received in this reporting period.

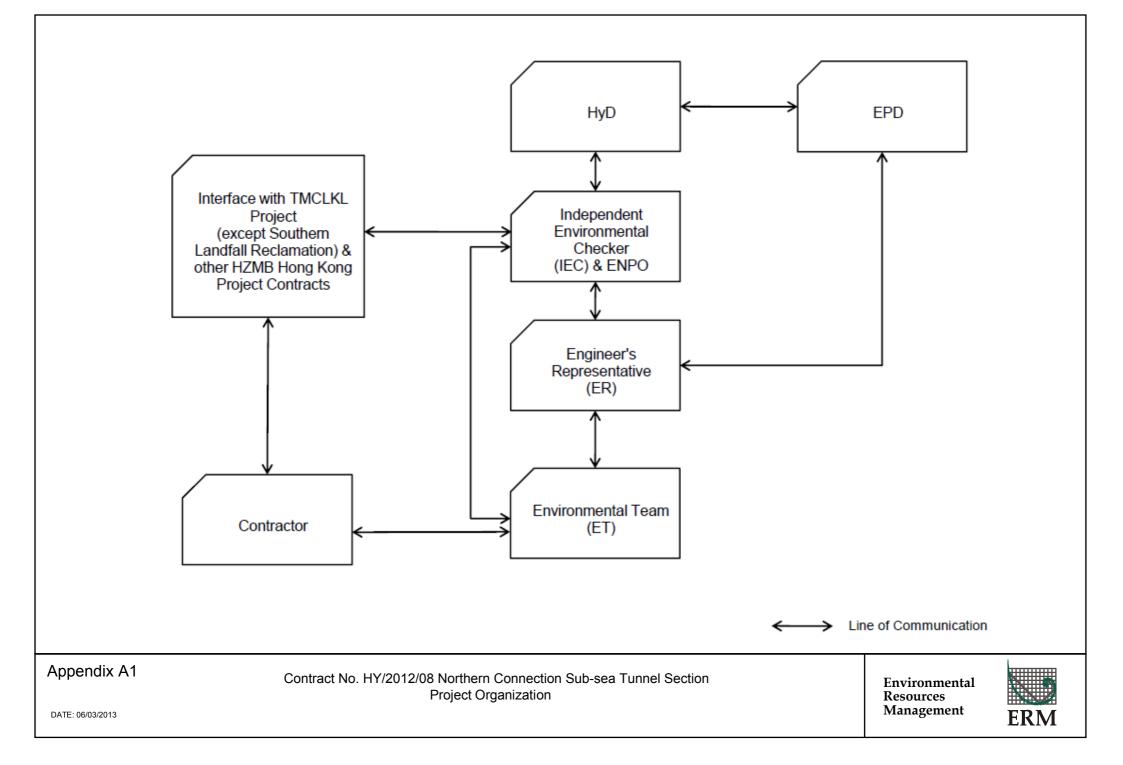
No environmental summons was received in this reporting period.

The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

22

Appendix A

Project Organization for Environmental Works



Appendix B

Construction Programme

Activity Name			2017				2018
	Apr May Ju	un Jul	Aug	Sep	Oct	Nov	Dec Jan
TMCLK - Northern Connection Sub-Sea Tunnel Section					1 1 1 1	1 1	
Contract Dates General Submissions				li 	1 1	1	
Construction		•					
Northern Landfall				1 1 1	1 1 1		
Box Culvert Extension							
Construction CH100-150 Land Section					1 1 1		
ELS & Structure				1 1 1	1 1 1		
Pile A41/A39 CJ to Pile A39/A37 CJ (Bay 7)							
Box Culvert Structure					 		
Base slab construction including kicker Removal of strut S1					1		
Sliding formworks 1 st assembly							
Walls & top slab construction					, , , , ,		
Removal of strut S2 & Backfilling up to required level		1			1 1 1		
Pile A39/A37 CJ to Pile A37/A35 CJ (Bay 8) Box Culvert Structure					1 1 1		
Base slab construction including kicker							
Removal of strut S1					, , , ,		
Walls & top slab construction					1 1 1		
Removal of strut S2 & Backfilling up to required level Pile A37/A35 CJ to Pile A35/A33 CJ (Bay 9)							
Box Culvert Structure							
Pile cap construction							
Base slab construction including kicker Removal of strut S1					1 1 1 1		
Walls & top slab construction					1 1		
Removal of strut S2 & Backfilling up to required level					1 1 1		
Pile A35/A33 CJ to Pile A33/P117 CJ (Bay 10)		 		1	1 1 1 1		
Box Culvert Structure Pile cap construction							
Base slab construction including kicker							
Removal of strut S1							
Walls & top slab construction					, , , ,		
Removal of strut S2 & Backfilling up to required level Ch150-250 Marine Section							
ELS & Structure							
Pile A33/P117 CJ to Pile P113/P109 CJ (Bay 11)							
Box Culvert Structure Base slab construction including kicker			 		 		
Removal of strut S1							
Walls & top slab construction							
Removal of strut S2 & Backfilling up to required level							
Pile P113/P109 CJ to Pile P105/P101 CJ (Bay 12) Box Culvert Structure					, , ,		
Walls & top slab construction					1 1 1		
Removal of strut S2 & Backfilling up to required level							
Pile P105/P101 CJ to Pile P97/P93 CJ (Bay 13) Box Culvert Structure							
Base slab construction including kicker					 		
Removal of strut S1							
Walls & top slab construction Removal of strut S2 & Backfilling up to required level							
Pile P97/P93 CJ to Pile P89/P85 CJ (Bay 14)							
Box Culvert Structure							
Walls & top slab construction			1 1 1		1 1 1		
Removal of strut S2 & Backfilling up to required level Pile P89/P85 CJ to Pile P81/P77 CJ (Bay 15)					1 1 1 1		
Box Culvert Structure					1 1 1		
Removal of strut S2 & Backfilling up to required level					 		
Pile P81/P77 CJ to Pile P73/P69 CJ (Bay 16)							
Box Culvert Structure Removal of strut S2 & Backfilling up to required level					1 1 1		
Ch250-380 Marine Section					1 1 1 1		
ELS & Structure							
Public Fill - Phase 2 Reclamation - along combi wall system Pile P73/P69 CJ to Pile P65/P61 CJ (Bay17)	Preclamation - along combi wall system				1 1 1		
ELS					1 1 1 1		
Excavation to 0.5m below strut S1	0,5m below strut \$1	 			! !		
Installation of strut S1	olf strut S1			1			
Excavation to FEL Box Culvert Structure	tion to FEL				1		
Base slab construction including kicker	Base slab construction including kicker			 	1 1 1		
Removal of strut S1	Removal of strut S1				 		
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Pile P65/P61 CJ to Pile P57/P53 CJ (Bay 18)		5.4					
ELS				 	ı ı ı ı		
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Data Date: 27-Aug-17 Progress bar Th	ree Months Rolling Programm	ne					
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Pile P09/P05 CJ to End Wall CJ (Bay 25)	
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Ch380-399 Connection Section	
Connection to Existing Culvert	
Removal of CH380 Sheet Pile Wall Removal of CH380 Sheet Pile Wall	
Page 2 of 11 TMCLK - Northern Connection Sub-Sea Tunnel Section	Checked Approved WYu SPo
Project ID: TMCLK DWPF 17W34	v.C CLa WYu
Data Date: 27-Aug-17 Three Months Rolling Programme	
Progress as of 27-Aug-17	

Name				2017				20
Backfilling of temporary Drainage diversion channel for Handover	Apr May	Jun	Jul	Aug	Sep	Oct	Nov Dec age diversion channel for Hando	Já
CKS Land Access - diversion to Postion N12 Vertical Seawall							to Postion N12 Vertical Seawall	ver
Removal of CKS Access Steel Bridge					1		cess Steel Bridge	
Advance preparation works for Main Culvert Structure Connection							i i	Cubior
						Ad	vance preparation works for Mair	n Cuiver
Connection Stage 1 (Cell 1 & 2)								
Bulkhead Installation at Cell 1 & 2, divert flow to Cell 3 & 4		 	, , , ,				Bulkhead Installation	
Removal of combi-wall at end wall Cell 1 & 2 for connection							Removal of c	combi-v
Miscellaneous works		1 1 1	1 1 1				I I I I I I	
Connection to Existing EOC		1	1 1 1					
ELS for Connection to Existing EOC							ELS for	Conne
Connection to Existing EOB							· · · · · · · · · · · · · · · · · · ·	
ELS for Connection to Existing EOB		1 1 1	1				ELS for Connection to	o Existi
Removal of EOB Temporary Drainage Diversion		1 1 1	1 1 1				Removal	of EOB
Connection to Existing EOA		1						
ELS for Connection to Existing EOA						EL	s for Connection to Existing EO	A
EOA Precast installation & Connection		1	1				ÉOA Precast ins	tallatior
Backfilling & EOA special manhole Construction			· •				¦ B	Backfillir
Inspection Manhole (IM)		1 1 1	1 1 1					
Inspection Manhole IM-01 to IM-04 & backfilling to +6.0mPD								
Inspection Manhole IM-05 to IM-08 & backfilling to +6.0mPD		1 1 1	1	1				
Inspection Manhole IM-13 to IM-16 & backfilling to +6.0mPD			1	1		Inspection Manhol	e IM-13 to IM-16 & backfilling to +	⊾6 0mP
Stop Log Opening (SLO)		 					+	
SLO-01 to SLO-05 & backfilling to +6.0mPD		1 1 1	1 1 1	1 1				
Balance Hole (BH)								
BH-01 to BH-03 & backfilling to +6.0mPD			1	1				
BH-04 to BH-06 & backfilling to +6.0mPD			, , ,					.
BH-10 to BH-12 & backfilling to +6.0mPD					1 🗖	BH-10	to BH-12 & backfilling to +6.0mF	PÞ
Desilting Opening (DO)		, , , ,			1			
DO-05 to DO-08 & backfilling to +6.0mPD		1 1	1 1				DO-05 to DO-08 & backfillin	ng to +6
Iorth Ventilation Shaft		1	1	1				
Construction		1	1 1 1	1				
North Ventilation Shaft Structure		 			1			- †
NVS - ML03 Tunnel Structure		, , , ,						
NVS - ML02 Tunnel Structure	—							
CLP Temporary Substation								
Construction								
CLP Substation - Prepare for CLP consent for de-energization			∩ ·⊦	-		CIP Substation	- - Prepare for CLP consent for de	
CLP Substation - De-energization	—— 		1				CLP Substation - De-energizatio	
MCLK VO-008 - Construction of Viaduct Foundations at Portion N6A		1 1 1	1					
		1 1 1	1 1 1					
Viaduct Pile Cap		1 1 1	1 1 1	1 1				
Construction		, , ,	· 				· · · · · · · · · · · · · · · · · · ·	.
Pier G1b								
Pile Cap G1b - ELS Foundation		1 1 1	1					
Pile Cap G1b - Removal of Existing ground slab	ound slab	 	1 1 1					
Pile Cap G1b - Excavation & ELS Installation	on & ELS Installation							
Pile Cap G1b - Blinding Concrete	g Concrete		; ; ;				i i i	
Pile Cap G1b - Rebar & Concreting	1b - Rebar & Concreting		1					
Pile Cap G1b - Backfilling & Temp Reinstatement	2 G10 - Backfilling & Temp Reinstat	ement						
Pier H1b								
Pile Cap H1b - ELS Foundation	Pile Cap H1b - ELS Found	ation						
Pile Cap H1b - Removal of Existing ground slab	Pile Cap H1b - Remova	al of Existing gro	und slab					
Pile Cap H1b - Excavation & ELS Installation	Pile Cap H	1b - Excavation	& ELS Installati	oh				
Pile Cap H1b - Blinding Concrete	Pile Cap	H1b - Blinding	çoncrete					
Pile Cap H1b - Rebar & Concreting		Pile Cap H1k	; b - Rebar & Con	creting				
Pile Cap H1b - Backfilling & Temp Reinstatement		1	H1b - Backfilling	1	statement			
Pier H1c		i in oup						
Pile Cap H1c - Preparation for ELS		 					 	
Pile Cap H1c - Removal of Existing ground slab		 	 		1			
Pile Cap H1c - Excavation & ELS Installation		1 1	1 1					
Pile Cap H1c - Blinding Concrete		1 1 1	1	1				
Pile Cap H1c - Rebar & Concreting		ı 	 				· · · · · · · · · · · · · · · · · · ·	.
Pile Cap H1c - Backfilling & Temp Reinstatement			· · ·		1			
Iorth Approach TBM Tunnelling & Cross Passage		1	1 1 1					
Construction		1	1 1 1	1				
North Approach Tunnel Internal Structure - NB								
NB - North TBM Tunnel - OHVD Slab installation			 		-			
NB - North TBM Tunnel - Fire proofing and Provision to E&MS and TCSS Contract for KD1	Contract for KD1	 	, ,					
North Approach Tunnel Internal Structure - SB		1	1					
SB - North TBM Tunnel - OHVD Slab installation					-			
SB - North TBM Tunnel - Fire proofing & Provision to E&MS and TCSS Contract for KD1	on to E&MS and TCSS Contract for	KD1						
lorth Ventilation Building								
Design Submission		 						- †
Construction		1	1					
Substructure		1	1	1				
		1	1	1				
Superstructure	Superstructure	1	1			1	<u> </u>	
Finishing Works							Finishing Works	.
Civil Provision for E&MS Contract					!		sion for E&MS Contract	
			1		1		F	Remair
Remaining Finishing Works			1					
Remaining Finishing Works Iorth Reclamation (Phase 2)								
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lorth Reclamation (Phase 2)				1				- +
Iorth Reclamation (Phase 2) Construction VS - Rock Grade 400 - Zone G	e & Seawall Block - Zone G	- - - - 	 					
Iorth Reclamation (Phase 2) Construction	e & Seawall Block - Zone G	 	 	 -				
Iorth Reclamation (Phase 2) Construction VS - Rock Grade 400 - Zone G VS - Levelling Stone & Seawall Block - Zone G		ea Tunnel	Section			Date 12-Feb-14	Revision Chedee TMCLK/DBJGEN/PRG98507 WYu	id A
Iorth Reclamation (Phase 2) Construction VS - Rock Grade 400 - Zone G VS - Levelling Stone & Seawall Block - Zone G of 11 Planned Bar Planned Bar Planned Bar	e & Seawall Block - Zone G Northern Connection Sub-S	ea Tunnel	Section					_
Iorth Reclamation (Phase 2) Construction VS - Rock Grade 400 - Zone G VS - Levelling Stone & Seawall Block - Zone G of 11 Planned Bar Planned Bar Planned Bar - Critical			Section			12-Feb-14 08-Apr-14	TMCLKDBJGEN/PRG/98507 WYu TMCLKDBJGEN/PRG/98507 Rev.B SPa	SPo WYu
Jorth Reclamation (Phase 2) Construction VS - Rock Grade 400 - Zone G VS - Levelling Stone & Seawall Block - Zone G of 11 D: TMCLK DWPF 17W34	Northern Connection Sub-S Detailed Works Programme	(Rev. F)	Section			12-Feb-14 08-Apr-14 28-Aug-14	TMCLK/DBJGEN/PRG/98507 WYu TMCLK/DBJGEN/PRG/98507 Rev.B SPa TMCLK/DBJGEN/PRG/98507 Rev.C CLa	SPo WYu
Iorth Reclamation (Phase 2) Construction VS - Rock Grade 400 - Zone G VS - Levelling Stone & Seawall Block - Zone G of 11 Planned Bar Planned Bar Planned Bar - Critical	Northern Connection Sub-S	(Rev. F)	Section			12-Feb-14 08-Apr-14 28-Aug-14	TMCLK/DBJGEN/PRG/98507 WYu TMCLK/DBJGEN/PRG/98507 Rev.B SPa TMCLK/DBJGEN/PRG/98507 Rev.C CLa	SPo WYu

		Apr	May	Jun	Jul	2017 Aug	Sep	Oct	Nov	Dec	2
VS - Rock Type A - Zone G		pę A - Zone G		* 						1	
Vertical Seawall - Bermstone - (Zone G)		ertical Seawall -	Bermstone - (Zor	ne G)						1 1 1	
Vertical Seawall - Seawall Coping - (Zone	G)			Vertical S	e¦awall - Seawa	ll Coping - (Zone	ėĠ)				
Sand Blanket (Zone G)									1 1 1	1 1 1	
Band Drain (Zone G)		Zone G)			·				±		
Reclamation - Phase 2		mation - Phase 2							1		
Backfilling to +10mPD - Phase 2		1		0mPD - Phase	a						
Surcharge - Phase 2						Surcha	rge - Phase 2				
Removal of Surcharge - Phase 2		<u> </u>	1	1			4	¦ Surcharge - Phase		1	
			- -	 					≠∠ ¦	 	
Handover - Portion N1 to N4			1	1	1		Handover - F	Portion N1 to N4	1 1 1	1 1 1	
North Approach Ramp				1				1	1		
Construction											
Zone G - Sheet Piling								Zone G - Sheet	Piling		
Zone G- Tension Piles				i i 				Zone G-	Tension Piles		
Zone G - Pile Test				1	1				Zone G -	Pile Test	
Remaining Zine E & Zone G - Excavation -	Soft									Rem	aining
ub-sea Tunnel									1		
Sub-sea TBM Tunnelling											
Design Submission										1	
(G3) DDA for TBM Tunnel Interr	al Structures (Sub-sea)			·	·				+		• • • • •
Sub-sea Tunnel - Precast Gallery Fabrica	· · · · ·			1	1				1	1	
•				1	1				1 1 1	1	
Construction				1	1				1 1 1	1 1 1	
Sub-sea TBM Tunnel - NB ID12										1	
	sandy with Trimix (Ch3590 to 3460 - 130m)	UIMS sandy with	Trimix (Ch3590 to	3460 - 130m)	¦ 	ļ	¦ 		¦ 	¦ 	
NB - Sub-sea TBM Tunnel - ALLUVIUMS	silty with Trimix (Ch3460 to 3360 - 100m)	UÝIUMS silty with	Trimix (Ch3460 t	o 3360 - 100m)							
NB - Sub-sea TBM Tunnel - ALLUVIUMS	sandy with Trimix (Ch3360 to 3160 - 200m)	iel - ALLUVIUMS	sandy with Trimi	(Ch3360 to 316	50 - 200m)					 	
NB - Sub-sea TBM Tunnel - ALLUVIUMS	silty with Trimix (Ch3160 to 3060 - 100m)	Tunnel - ALLUVIL	JMS silty with Trim	ix (Ch3160 to 30	060 - 100m)					 	
NB - Sub-sea TBM Tunnel - ALLUVIUMS	silty with Trimix (Ch3060 to 2920 - 140m)		UVIUMS silty with):				1	
NB - Sub-sea TBM Tunnel - ALLUVIUMS		i	ALLUVIUMS silty	1	i.	ii				1	
	sandy with Trimix (Ch2820 to 2720 - 100m)		el - ALLUVIUMS		+				1		+
					1				1	1	
NB - Sub-sea TBM Tunnel - ALLUVIUMS			nel - ALLUVIUMS	1	1				1	1	
NB - Sub-sea TBM Tunnel - ALLUVIUMS			Tunnel - ALLUVI	-					1 1 1	1	
NB - Sub-sea TBM Tunnel - ALLUVIUMS	silty with Trimix (Ch2574 to 2512 - 62m)	NB - Sub-sea TB	M Tunnel - ALLU	/IUMS silty with	Trimix (Ch2574 t	o <u>2512 - 62m)</u>			1 1 1	1	
S881 - TBM Removal at Southern Landfa	d			S881 - TB	M Removal at So	outhern Landfall			: : !	: : !	
Sub-sea TBM Tunnel - SB ID12.	2m - S882			1 1 1				-	1 1 1	1 1 1	
SB - Sub-sea TBM Tunnel - ALLUVIUMS	silty with Trimix (Ch2595 to 2533 - 62m)	- ALLUVIUMS si	ty with Trimix (Ch	2595 to 2533 - 6	2m)				1		
SB - TBM Removal at Southern Landfall		SB - TBM F	emoval at South	rn Landfall					1	1	
Sub-sea TBM Tunnel - NB - Pre	cast Invert Gallery			1					1 1 1	1	
NB - Sub-sea TBM Tunnel - Precast Inver	•	ry - Completion t	CP24								
NB - Sub-sea TBM Tunnel - Precast Inver		allery - Completion									
			i i								
NB - Sub-sea TBM Tunnel - Precast Inver		rt Gallery - Comp	1	1							
NB - Sub-sea TBM Tunnel - Precast Inver			mpletion to CP21	1	1			1			
NB - Sub-sea TBM Tunnel - Precast Inver	Gallery - Completion to CP20	ast Invert Gallery	- Completion to C	20							
NB - Sub-sea TBM Tunnel - Precast Inver	Gallery - Completion to CP19	recast Invert Galle	ery - Completion t	CP19							
NB - Sub-sea TBM Tunnel - Precast Inver	Gallery - Completion to CP18		Gallery - Comple		1 1 1			· · · · · · · · · · · · · · · · · · ·			1
NB - Sub-sea TBM Tunnel - Precast Inver	Gallery - Completion to CP17	nnel - Precast Inv	vert Gallery - Com	pletion to CP17	1				1	1	
NB - Sub-sea TBM Tunnel - Precast Inver	Gallery - Completion to CP16	/ tunnel - Precas	t Invert Gallery - (ompletion to CF	216			-		1	
NB - Sub-sea TBM Tunnel - Precast Inver	Gallery - Completion to CP15		ecast Invert Galler		1					1	
NB - Sub-sea TBM Tunnel - Precast Inver			Precast Invert Ga	1	1				1	1 1 1	
				+	+				,		
NB - Sub-sea TBM Tunnel - Precast Inver		i	el - Precast Inver		1		1			1	
NB - Sub-sea TBM Tunnel - Precast Inver			unnel - Precast Ir	1	1.1	1				1	
NB - Sub-sea TBM Tunnel - Precast Inver	Gallery - Completion to CP11	NB - Sub-sea TB	M Tunnel - Preca	t Invert Gallery	Completion to (CP11			1		
NB - Sub-sea TBM Tunnel - Precast Inver	Gallery - Completion to CP10	NB - Sub-sea	TBM Tunnel - Pre	cast Invert Galle	y - Completion	to CP10			1	1	
NB - Sub-sea TBM Tunnel - Precast Inver	Gallery - Completion to CP09			NB - Su	ub-sea TBM Tun	nel - Precast Inv	ert Gallery - Con	pletion to CP09			
NB - Sub-sea TBM Tunnel - Precast Inver	Gallery - Completion to CP08			NB	- Sub-sea TBM	Tunnel - Precas	t Invert Gallery -	Completion to CP(98		
Sub-sea TBM Tunnel - SB - Pre	cast Invert Gallerv										
SB - Sub-sea TBM Tunnel - Precast Inver	•	ery - Completion	d CP21	1						1	
SB - Sub-sea TBM Tunnel - Precast Inver		allery - Completion	1	1	1		1		1	1	
SB - Sub-sea TBM Tunnel - Precast Inver			i -								
		ert Gallery - Com									+
SB - Sub-sea TBM Tunnel - Precast Inver			- Completion to C		1						
SB - Sub-sea TBM Tunnel - Precast Inver			ery - Completion	1							
SB - Sub-sea TBM Tunnel - Precast Inver	, ,	inel - Precast Inve	ert Gallery - Comp	letion to CP16							
SB - Sub-sea TBM Tunnel - Precast Inver	Gallery - Completion to CP15	Tunnel - Precast	Invert Gallery - C	mpletion to CP	15						
SB - Sub-sea TBM Tunnel - Precast Inver	Gallery - Completion to CP14	BM Tunnel - Pre	cast Invert Gallery	- Completion to	CP14						
SB - Sub-sea TBM Tunnel - Precast Inver	Gallery - Completion to CP13	b-sea TBM Tunne	el - Precast Invert	Sallery - Comple	etion to CP13						+
SB - Sub-sea TBM Tunnel - Precast Inver			uhnel - Precast In	i i	i.	2				1 1	
SB - Sub-sea TBM Tunnel - Precast Inver	, ,		BM Tunnel - Prec	1	1	1					
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SB - Sub-sea TBM Tunnel - Precast Inver			a TBM Tunnel - F								
SB - Sub-sea TBM Tunnel - Precast Inver	, ,		sea TBM Tunne				; 		,		.
SB - Sub-sea TBM Tunnel - Precast Inver	, ,	SB -	Sub-sea TBM Tur	nel - Precast Inv	vert Gallery - Co	pletion to CP0	3 _¦			1	
ub-sea Tunnel Cross Passage &	Internal Structure				1						
Construction											
Sub-sea Tunnel Cross Passage										1 1 1	
CP37 - ML03 - Ch5413										1	
CP - Pipe Jacking Method - Setup & Ass	embly								<u>+</u>		+
CP - Piping Jacking Method - Break-in 8	· ·									1	
CP - Piping Jacking Method - Break-out & CP - Pipe Jacking Method - Break-out &				1	1				1	1	
CP - Remaining Internal Structure & Fini	sning	ig¦								1	
CP36 - ML03 - Ch5315				 		<u> </u>					
CP - Pipe Jacking Method - Setup & Ass	embly										
CP - Piping Jacking Method - Break-in 8	Excavation		1	1	1				1	1	
CP - Pipe Jacking Method - Break-out &		lization		1	1				1	1	
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of 11	Planned Bar TMC	CLK - Northern Conne	ction Sub-S	ea Tunnel	Section			Date 12-Feb-14	Revision TMCLK/DBJGEN/PRG		SPO
	Planned Bar - Critical							08-Apr-14 28-Aug-14	TMCLK/DBJGEN/PRG TMCLK/DBJGEN/PRG	98507 Rev. C CLa	WY:
		Detailed Works	Programmo	(Rev F)				30-Od-15	TMCLKDBJGEN/PRG		
ID: TMCLK DWPF 17W34	Planned Milestone	Detailed WORKS	Togramme	(1100.1)							
			-	. ,							
ID: TMCLK DWPF 17W34 ate: 27-Aug-17	 Planned Milestone Progress bar Progress Milestone 	Three Months	-	. ,							

	2017 Apr May Jun Jul Aug Sep Oct Nov [Dec
CP - Remaining Internal Structure & Finishing	e & Finishing	
CP35 - ML03 - Ch5217		
CP - Pipe Jacking Method - Setup & Assembly		
CP - Piping Jacking Method - Break-in & Excavation		
CP - Pipe Jacking Method - Break-out & Demobilization	philization	
CP - Remaining Internal Structure & Finishing	re & Finishing	
CP34 - ML03 - Ch5118		
CP - Pipe Jacking Method - Setup & Assembly		
CP - Piping Jacking Method - Break-in & Excavation	xcavation	
CP - Pipe Jacking Method - Break-out & Demobilization	ut'& Demobilization	
CP - Remaining Internal Structure & Finishing	ernal Structure & Finishing	
CP33 - ML03 - Ch5020		
CP - Pipe Jacking Method - Setup & Assembly		
CP - Piping Jacking Method - Break-in & Excavation	Excavation	
CP - Pipe Jacking Method - Break-out & Demobilization		
	-out & Demobilization	
CP - Remaining Internal Structure & Finishing	hternal Structure & Finishing	
CP32 - ML03 - Ch4921	······································	
CP - Pipe Jacking Method - Setup & Assembly		
CP - Piping Jacking Method - Break-in & Excavation	reak-in & Excavation	
CP - Pipe Jacking Method - Break-out & Demobilization	d - Break-out & Demobilization	
CP - Remaining Internal Structure & Finishing	ning Internal Structure & Finishing	
CP31 - ML03 - Ch4823		
CP - Pipe Jacking Method - Setup & Assembly		
CP - Piping Jacking Method - Break-in & Excavation	Break-in & Excavation	
CP - Pipe Jacking Method - Break-out & Demobilization	hod - Break-out & Demobilization	
CP - Remaining Internal Structure & Finishing	naining Internal Structure & Finishing	
CP30 - ML03 - Ch4724		
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CP - Pipe Jacking Method - Setup & Assembly		
CP - Piping Jacking Method - Break-in & Excavation	Method - Break-ih & Excavation	
CP - Pipe Jacking Method - Break-out & Demobilization	cking Method - Break-out & Demobilization	
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing	
CP29 - ML03 - Ch4626		
CP - Pipe Jacking Method - Setup & Assembly		
CP - Piping Jacking Method - Break-in & Excavation	ng Method - Break-in & Excavation	
CP - Pipe Jacking Method - Break-out & Demobilization	Jacking Method - Break-out & Demobilization	
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing	
CP28 - ML03 - Ch4527		
CP - Pipe Jacking Method - Setup & Assembly	mbly	
CP - Piping Jacking Method - Break-in & Excavation	ping Jacking Method - Break-in & Excavation	
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization	
CP - Remaining Internal Structure & Finishing	CP- Remaining Internal Structure & Finishing	
CP27 - ML03 - Ch4429		
CP - Pipe Jacking Method - Setup & Assembly	ssembly	
CP - Piping Jacking Method - Break-in & Excavation	Piping Jacking Method - Break-in & Excavation	
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization	
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing	
CP26 - ML03 - Ch4330		
CP - Pipe Jacking Method - Setup & Assembly	& Assembly	
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation	
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization	
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing	
CP25 - ML03 - Ch4232		
CP - Pipe Jacking Method - Setup & Assembly	tup & Assembly	
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation	
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization	
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing	
CP24 - ML03 - Ch4133		
CP - Pipe Jacking Method - Setup & Assembly	Setup & Assembly	
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation	
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization	
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing	
CP23 - ML03 - Ch4035		
CP - Pipe Jacking Method - Setup & Assembly	nod - Setup & Assembly	
GF - File Jacking Method - Setup & Assembly	CP - Piping Jacking Method - Break-in & Excavation	
CP - Piping Jacking Method - Break-in & Excavation	CP - Pipe Jacking Method - Break-out & Demobilization	
CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization	CP - Remaining Internal Structure & Finishing	
CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing	
CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP22 - ML03 - Ch3936		
CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP22 - ML03 - Ch3936 CP - Pipe Jacking Method - Setup & Assembly	tethod - Setup & Assembly	
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CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP22 - ML03 - Ch3936 CP - Pipe Jacking Method - Setup & Assembly CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP21 - ML03 - Ch3838 CP - Pipe Jacking Method - Setup & Assembly	lethod - Setup & Assembly CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demetrilization	
CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP22 - ML03 - Ch3936 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP21 - ML03 - Ch3838	Iethod - Setup & Assembly CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demetrilization CP - Pipe Jacking Method - Break-out & Demetrilization CP - Remaining Internal Structure & Finishing	
CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP22 - ML03 - Ch3936 CP - Pipe Jacking Method - Setup & Assembly CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP21 - ML03 - Ch3838 CP - Pipe Jacking Method - Setup & Assembly	Iethod - Setup & Assembly CP - Piping Jacking Méthod - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demebilization CP - Remaining Internal Structure & Finishing king Method - Setup & Assembly	
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CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP22 - ML03 - Ch3936 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP21 - ML03 - Ch3838 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing	Ieihod - Setup & Assembly CP - Piping Jacking Méthod - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demebilization CP - Remaining Internal Structure & Finishing King Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing	
CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP2 - ML03 - Ch3936 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP21 - ML03 - Ch3838 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP20 - ML03 - Ch3739 CP - Pipe Jacking Method - Setup & Assembly	Ieihod - Setup & Assembly CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demebilization CP - Remaining Internal Structure & Finishing king Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavatior CP - Pipe Jacking Method - Break-in & Excavatior CP - Pipe Jacking Method - Break-in & Excavatior CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP - Remaining Internal Structure & Finishing	
CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP22 - ML03 - Ch3936 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP21 - ML03 - Ch3838 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP20 - ML03 - Ch3739 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly	Iethod - Setup & Assembly CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demebilization CP - Pipe Jacking Method - Break-in & Excavatior CP - Piping Jacking Method - Break-in & Excavatior CP - Pipe Jacking Method - Break-in & Excavatior CP - Pipe Jacking Method - Break-in & Excavatior CP - Pipe Jacking Method - Break-in & Excavatior CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing Icopy Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavatior CP - Pipe Jacking Method - Break-in & Excavation	
CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP22 - ML03 - Ch3936 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP21 - ML03 - Ch3838 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Remaining Internal Structure & Finishing CP20 - ML03 - Ch3739 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization	Iethod - Setup & Assembly CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demetilization CP - Pipe Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation	
CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP22 - ML03 - Ch3936 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP21 - ML03 - Ch3838 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP20 - ML03 - Ch3739 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Internal Structure & Finishing	Iethod - Setup & Assembly CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demebilization CP - Pipe Jacking Method - Break-in & Excavatior CP - Piping Jacking Method - Break-in & Excavatior CP - Pipe Jacking Method - Break-in & Excavatior CP - Pipe Jacking Method - Break-in & Excavatior CP - Pipe Jacking Method - Break-in & Excavatior CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing Icopy Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavatior CP - Pipe Jacking Method - Break-in & Excavation	
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CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP22 - ML03 - Ch3936 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP21 - ML03 - Ch3838 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP20 - ML03 - Ch3739 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP19 - ML03 - Ch3641 <td>Iethod - Setup & Assembly CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Dometrilization CP - Piping Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe</td> <td>Checked</td>	Iethod - Setup & Assembly CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Dometrilization CP - Piping Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe	Checked
CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP22 - ML03 - Ch3936 CP - Pipe Jacking Method - Setup & Assembly CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP21 - ML03 - Ch3838 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP20 - ML03 - Ch3739 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-ing & Excavation CP - Pipe Jacking Method - Break-ing & Excavation CP - Pipe Jacking Method - Break-ing & Excavation CP - Pipe Jacking Method - Break-ing & Excavation CP - Pipe Jacking Method - Break-ing & Excavation CP - Pipe Jacking M		Cheded WYu B SPa
CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP22 - ML03 - Ch3936 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP21 - ML03 - Ch3838 CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-ing & Excavation CP - Pipe Jacking Method - Break-in		C CLa
CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP22 - ML03 - Ch3936 CP - Pipe Jacking Method - Setup & Assembly CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP21 - ML03 - Ch3838 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Remaining Internal Structure & Finishing CP19 - ML03 - Ch3641 Method - Break-in & Planned Bar Planned Bar - Critical Planned Milestone Planned Milestone		C CLa
CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP22 - ML03 - Ch3936 CP - Pipe Jacking Method - Setup & Assembly CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP21 - ML03 - Ch3838 CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Steup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-ing &		C CLa

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CP - Pipe Jacking Method - Setup & Assembly	Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in 8 Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP18 - ML03 - Ch3542	
CP - Pipe Jacking Method - Setup & Assembly CP - Piping Jacking Method - Break-in & Excavation	pę Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization	CP - Piping Jacking Method - Break-in & Excavation
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP17 - ML03 - Ch3444	
CP - Pipe Jacking Method - Setup & Assembly	- Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP16 - ML03 - Ch3345	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure;& Finishing
CP15 - ML03 - Ch3247 CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Pipe Jacking Method - Setup & Assembly CP - Piping Jacking Method - Break-in & Excavation	CP - Pipe Jacking Method - Setup & Assembly CP - Piping Jacking Method - Break-in & Excavation
CP - Pipel Jacking Method - Break-In & Excavation CP - Pipe Jacking Method - Break-out & Demobilization	CP - Piper Jacking Method - Break-out & Demobilization
CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing	CP - Pipe Jacking Method - Break-out & Demobilization
CP14 - ML03 - Ch3148	OF - hemanning internal Structure & Finishing
CP 14 - WLUS - CTIST46 CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Pipe Jacking Method - Setup & Asserning
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-in & Extavation
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Fihishing
CP13 - ML03 - Ch3050	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP12 - ML03 - Ch2951	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishi
CP11 - ML03 - Ch2853 CP_ Pine lacking Mathed - Satur & Assembly	
CP - Pipe Jacking Method - Setup & Assembly CP - Piping Jacking Method - Break-in & Excavation	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization	CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Pipe Jacking Mendo - Break-out & Demobilization
CP10 - ML03 - Ch2754	CP - Hemaning internal Structure & Finis
CP10 - ML03 - C12754 CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Pipe acking Method - Setup & Assentioly CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demo
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure
CP09 - ML03 - Ch2656	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavatio
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Der
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Struct
CP08 - ML03 - Ch2557	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in &
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal
Completion of Sub-sea Cross Passage for KD-2	Completion of Sub-sea
Sub-sea TBM Tunnel - NB - Remaining Internal Structure	
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP36	rough - Completion to CP36
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP35	e Trough - Completion to CP35
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP34	& Cable Trough - Completion to CP34
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP33	el & Cable Trough - Completion to CP33
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP32	nnel - Corbel & Cable Trough - Completion to CP32
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP31	Tunnel - Corbel & Cable Trough - Completion to CP31
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP30	sea TBM Tunnel - Corbel & Cable Trough - Completion to CP30
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP29	b-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP29
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP28	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP28
	NB - Sub-sea TBM Tunnel - Corbel & Cable Trpugh - Completion to CP27
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP27	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26	
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25	
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23	Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 TM Planned Bar	Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 Image: NB - Sub-sea TBM Tunnel - Co

Activity Name		
	2017 Apr May Jun Jul Aug Sep Oct Nov Dec	2018 Jan
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15	
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion	
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completi	+
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough	
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10	NB - Sub-sea TBM Tunnel - Corbel & Cable Troug	
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09	NB - Sub-sea TBM Tunnel - Corbe	
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP08	NB - Sub-sea TBM Tunnel	
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to South Retrieval shaft	NB - Sub-sea TBM Tunne	
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48		
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47		
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP46		
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP45		
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44		
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43		
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP41		
NB - Sub-sea TBM Tunnel - OHVD Slab Installation - Completion to CP41 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP40	CP40	
NB - Sub-sea TBM Tunnel - OHVD Stab Installation - Completion to CP40	10P40 tb CP39	
NB - Sub-sea TBM Tunnel - OHVD Stab Installation - Completion to CP38	pmpletion to CP38	
NB - Sub-sea TBM Tunnel - OHVD Slab Installation - Completion to CP37	Completion to CP37	
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP36	tallation - Completion to CP36	
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP35	nştallation - Completion to CP35	
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP34	/D Slab installation - Completion to CP34	
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP33	DHVD Slab installation - Completion to CP33	
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP32	Tunnel - OHVD Slab installation - Completion to CP32	
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP31	M Tunnel - OHVD Slab installation - Completion to CP31	
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP30	o-sea TBM Tunnel - OHVD Slab installation - Completion to CP30	
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP29	Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP29	
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP28	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP28	
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP27	HE - SUD-sea TBM Tunnel - OHVD Slab installation - Completion to CP27	
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP26	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP26	
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP25	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP25	
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NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP21	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP21	
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP20	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP20	
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NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP18 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP17		
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP17 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP16	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP17 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP16	
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP16 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP15	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP16	
NB - Sub-sea TBM Tunnel - OHVD Slab Installation - Completion to CP15 NB - Sub-sea TBM Tunnel - OHVD Slab Installation - Completion to CP14		
	MR - Sub-sea TRM Tunnel - OHVD Slab installation - Completic	Jn to ∪r i⊸
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP13	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completic	ton to CP13
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP13	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Comple	n - Completion
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP13 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP12	 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion NB - Sub-sea TBM Tunnel - OHVD Slab installation 	n - Completion tion - Completio
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP13 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP12 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP11	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Comple NB - Sub-sea TBM Tunnel - OHVD Slab installation NB - Sub-sea TBM Tunnel - OHVD Slab installation	n - Completion tion - Completio installation - C
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NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to South Retrieval Shaft	NB - Sub-sea TBM Turnel - F
NB - Sub-sea TBM Tunnel - Road Level Fire Proofing	
Sub-sea TBM Tunnel - SB - Remaining Internal Structure	
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP41	
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP40	P40
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP39	p (CP39
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP38	npletion to CP38
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP37	completion to CP37
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP36	rough - Completion to CP36
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP35	e Trough - Completion to CP35
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP34	I & Cable Trough - Completion to CP34
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP33	bel & Cable Trough - Completion to CP33
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP32	Innel - Corbel & Cable Trough - Completion to CP32
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP31	Tunnel - Corbel & Cable Trough - Completion to CP31
SB - Sub-sea TBM funnel - Corbel & Cable Trough - Completion to CP30	
	sea TBM Tunnel - Corbel & Cable Trough - Completion to CP30
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP29	Ibhsea TBM Tunnel - Corbel & Cable Trough - Completion to CP29
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP28	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP28
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP27	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP27
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25	B - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23	SB - Sub-sea TBM Turinel - Corbel & Cable Trough - Completion to CP23
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20	SB - Sub-sea TBM Tunnel - Cortel'& Cable Trough - Completion to CP20
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19	SB - Sub-sea TBM Tunnel - Cyrbel & Cable Trough - Completion to CP19
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18	SB - Sub-sea TBM Tunhel - Corbel & Cable Trough - Completion to CP18
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17	SB- Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17
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	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to C
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Comp
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Cor
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10	🔲 SB - Sub-sea TBM Tunnel - Corbel & Cable Tro
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09	SB - Şub-sea TBM Tunnel - Corbel & Cable T
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP08	SB - Sub-sea TBM Tunnel - Corbel &
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to South Retrieval shaft	BB - Sub-sea TBM Tunnel - Corbe
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47	
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SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP46	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP45	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44	
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SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP38	completion to CP38
	- Completion to CP37
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Progress as of 27-Aug-17	

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		A		214	lue	1	2017	Cor	Oct	Neu	Dee	2018
IP's No Objection Received	╞	Apr	IV	lay	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
SO's Review									-			
SO Approval with Condition Received	<u> </u>									' 		
Method Statement Submission			-									
Method Statement of Construction Methodology of Retrieval Shaft										1 1 1		
Preparation Method Statement for Retrieval Shaft										, , ,		
Submit Method Statement to SO	-									1 1 1		
So Reviews & Comments										 		
Re-submission	-											
	-									1 1		
SO's Review	ł				1 1 1				1	1		
Construction										1		
Retrieval Shaft - Excavation - Soft by ramp									; -{			
Retrieval Shaft - Excavation - Soft by vertical mean (Fill material)					1 1 1				1	1 1 1		
Retrieval Shaft - Excavation - Soft (other than Fill)	Ļ.									1		
Retrieval Shaft - Temp. Slab/Prepare for TBM Breakthrough	÷		1							1		
Retrieval Shaft - Mobilization for Retrieval Shaft Tunnel Structure						Retrie	eval Shaft - Mobil	ization for Retrieva	al Shaft Tunnel St	ructure		
Retrieval Shaft - Tunnel Structure						>				<u> </u>		
South Ventilation Building										 		
Design Submission												
(I1) DDA for South Vent.Bldg. GBP & Arch.Submission					- 					 		
IPs Review			1		1		1			1 1 1		
IP's No Objection Received									¦	¦ 		
SO's Review					- 					 		
SO Approval with Condition Received	ļ.								-			
(I2) DDA for South Vent.Bldg. Foundation Design												
Review & Comment by JV										1 1 1		
Designer prepare DDA			L		 !				 	 		
Formal Submission of DDA to ICE/ IPs	1								1	1 1 1		
Advanced Submission to SO	<u> </u>							4		1		
IPs/SO'sAdvance Comments/ ICE Comments					, 					1		
Comments Received	÷				1 • •			-	1			
Designer to Reply RtC + Update Submission	1		1						-			
Submit Updated DDA to SO/ ICE/ IPs	+									 		
ICE Approval & Issue Check Cert												
Submit ICE Check Cert to SO									1			
IPs Review										1		
SO's Review												
(I2) DDA for South Vent.Bldg.Structural Design incl.Vent.Connections										<u> </u> 		
Review & Comment by JV												
Designer prepare DDA										I I		
Formal Submission of DDA to ICE/ IPs	-											
Advanced Submission to SO	-									1 1 1		
IPs/ SO's Advance Comments/ ICE Comments			L							<u> </u>		
Comments Received			1							1		
Designer to Reply RtC + Update Submission										1 1 1		
Submit Updated DDA to SO/ ICE/ IPs	-		1							- 		
ICE Approval & Issue Check Cert									-	1		
IPs Review	+									! !		
SO's Review												
(J1) DDA Temp.works for Construction of Sth.Vent.Bldg.										1 1 1		
Designer to Reply RtC + Update Submission					- - 					1 1		
Submit Updated DDA to SO/ ICE/ IPs	<u> </u>				 							
ICE Approval & Issue Check Cert												
Submit ICE Check Cert to SO	-		1				 			1		
IPs Review												
IP'S No Objection Received	44						1			1 1 1		
SO's Review	1						1			1		
SO Approval with Condition Received										1 1 1		
Construction					- 1 1					1		
Mobilization & Setting Up Piling Rigs	-											
S - Piling (Socket H-piles)			1							1 1 1		
S - Pile Test	↓				i 					i <u>i</u> 		
S -Sheet Piling					1							
S-Excavation									-			
Substructure										 		
Superstructure	Bupe	erstructure			1		i 1 1		-	1		
Finishing Works			<u> </u>						Finishing Wor	·		
E&MS & Equipments Installation (by Others)						-		E&MS & Equipme	nts Installation (b	y Others)		
Remaining Finishing Works								1	1	Remaining F	inishing Works	
Handover Portion N10										Handover Po	ortion N10	
South Surface Roadworks, Utility & Drainage works												
Design Submission			1		;		1		1	i		

Design Submission

South Surface Roadworks, I	Jtility & Drainage works							1		
Design Submission										
(E1) AIP - Southern Landfa	all Seawall Modification						 			
Designer to Prepare RtC & Update	d AIP		Prepare RtC & Updated AIP					1		
Submisson of AIP to SO/ ICE toget	ner with Reply To Comment (RTC)		of AIP to SO/ ICE together with Rep	ly To Comment (F	RTC)					
Reply to IPs Comments in RTC			s Comments in RTC	. I	1					
ICE Approval & Issue of Design Ch	eck Cert.		ICE Approval & Issue of Design Ch	eck Cert.						
Check Cert to SO			Check Cert to SO				 			
No Objection or Further Minor Con	No Objection or Further Minor Comments from IPs Received			ments from IPs R	eceived		1	1 1 1		
SO Review (35 Days)			SO Review (35 Days)							
SO Approval with Condition Receiv	ved		SO Approval with Condition	Received	1					
(E1) DDA - Southern Land	fall Seawall Modification									
						•	Date	Revision	Checked	Approved
Page 10 of 11	Planned Bar	IMCLK - Nor	thern Connection Sub-Se	ea Tunnel S	Section		12-Feb-14 08-Apr-14	TMCLK/DBJGEN/PRG/98507 TMCLK/DBJGEN/PRG/98507		SPo MOV
	Planned Bar - Critical						28-Aug-14	TMCLK/DBJGEN/PRG/98507	7 Rev.C CLa	WYu
Project ID: TMCLK DWPF 17W34	Planned Milestone	Deta	ailed Works Programme	(Rev. F)			30-Od-15	TMCLK/DBJGEN/PRG/98507	Rev.F WYu	
Data Date: 27-Aug-17	Progress bar	Т	ree Months Rolling Prog	ramme						
	 Progress Milestone 		ince months notility riby	anne						
			Progress as of 27-Aug-	-17						

vity Name										
	Array	Mari	l hue	l bal	2017	Car	Ort	Neu	Dec	2018
Preparation of DDA Modification of Seawall at Sth Landfall	Apr	May Preparation	Jun of DDA Modificat	Jul tion of Seawall a	Aug	Sep	Oct	Nov	Dec	Jan
Review & Comment by JV		1	eview & Comme	i i						
Designer prepare DDA			1	prepare DDA						
Formal Submission of DDA to ICE/IPs		-		bmission of DD/	to ICE/IPs		1			
Advanced Submission to SO			i •	Submission to S	i i					
IPs/SO'sAdvance Comments/ICE Comments						ents/ ICE Commen				
Comments Received				Comments	i i					
Designer to Reply RtC + Update Submission			, , , ,		1	eply RtC + Update	Submission			
Submit Updated DDA to SO/ ICE/ IPs			1		1	ted DDA to SO/IC				
ICE Approval & Issue Check Cert			, , ,		1	proval & Issue Ch				
Submit ICE Check Cert to SO			 			ubmit ICE Check C				
IPs Review			1 1 1			IPs Review				
IP's No Objection Received			1 1	- - - -		IP's No Objection	Received			
SO's Review			 			SO's Review				
SOApproval with Condition Received			 			SO Approval	1	eceived		
Method Statement Submission										
Method Statement of Ground Treatment for TBMs Passing under Southern La			 	 						
Preparation Method Statement for Ground Improvement in South Landfall			1 1	, 1 1	1					
Submit Method Statement to SO		1		1 1						
SO Reviews & Comments				, , , ,	, , ,					
Re-submission			, , ,	1 1 1						
SO's Review			1 1 1	1						
SO'sApproval	1		, , ,	, , ,						
Construction				1 1 1						
South Landfall - Seawall Modification			1 1 1	1 1 1						
Testing & Commissioning/Inspection & Handover				 						
Final Inspection & Handover			1 1 1	1 1 1						
Design Submission				1						
(A12) Maintenance Matrix			1 1 1	1 1 1						
Prepare Re-submission			1 1 1	1 1 1	1 1 1		1	1		
2nd Submission			, ,	, 						
SO's Condition Approval			1 1 1		, , , ,					
(A13) Operation & Maintenance Manual				1 1 1						
Preparation of Operation and Maintenance Manual			1 1 1	1 1 1	1 1 1					
1st Submission	-			1	1					
SO's Comments for 1st Submission			 , ,	, , , ,						
Prepare Re-submission				1						
2nd Submission			, , ,	1	1					
SO's Condition Approval			1 1 1	1 1 1	1 1 1		1	1		
(A14) As-built & As-fabricated Drawings			 	 	1 1					
Preparation of As-built and As-fabricated Drawings			 ! !	 ! !						
1st Submission			1 1 1		1 1 1					
SO's Comments for 1st Submission		1	1 1 1	1 1 1	1		1	1		
Prepare Re-submission										
(A15) Health & Safety File incl.As-built Dwgs & Records, Maintenance Schedul			, 	, 	, 					
Preparation of Health and Safety File including as-built drawings and records, maintenance schedules, or	·		 	F						+
1 st Submission		1	1 1 1	1 1 1	1					
SO's Comments for 1st Submission		1	1 1 1	1 1 1	1		1	1		
Prepare Re-submission			1	1						
						• *				•

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Page 11 of 11	Planned Bar	TMCLK - Northern Connection Sub-Sea Tunnel Section		Date 2-Feb-14	Revision TMCLK/DBJGEN/PRG/98507	Checked WYu	Approved SPo
Project ID: TMCLK DWPF 17W34	Planned Bar - Critical Planned Milestone	Detailed Works Programme (Rev. F)	28	8-Aug-14	TMCLK/DBJGEN/PRG/98507 Rev.B TMCLK/DBJGEN/PRG/98507 Rev.C TMCLK/DBJGEN/PRG/98507 Rev.F	CLa	WYu WYu
Data Date: 27-Aug-17	 Progress bar Progress Milestone 	Three Months Rolling Programme					
		Progress as of 27-Aug-17					

Appendix C

Environmental Mitigation and Enhancement Measure Implementation Schedules

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Reference					D	С	0	
Air Quality 4.8.1	3.8	An effective watering programme of twice daily watering with complete coverage, is estimated to reduce by 50%. This is recommended for all areas in order to reduce dust levels to a minimum;	construction period	Contractor	TMEIA Avoid smoke impacts and disturbance		Y		~
4.8.1	3.8	Watering of the construction sites in Lantau for 8 times/day and in Tuen Mun for 12 times/day to reduce dust emissions by 87.5% and 91.7% respectively and shall be undertaken.		Contractor	TMEIA Avoid dust generation		Y		V
4.8.1	3.8	The Contractor shall, to the satisfaction of the Engineer, install effective dust suppression measures and take such other measures as may be necessary to ensure that at the Site boundary and any nearby sensitive receiver, dust levels are kept to acceptable levels.	construction period	Contractor	TMEIA Avoid dust generation		Y		~
4.8.1	3.8	The Contractor shall not burn debris or other materials on the works areas.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		~
4.8.1	3.8	In hot, dry or windy weather, the watering programme shall maintain all exposed road surfaces and dust sources wet.	All unpaved haul roads / throughout construction period in hot, dry or windy weather	Contractor	TMEIA Avoid smoke impacts and disturbance		Y		~
4.8.1	3.8	Where breaking of oversize rock/concrete is required, watering shall be implemented to control dust. Water spray shall be used during the handling of fill material at the site and at active cuts, excavation and fill sites where dust is likely to be created.	construction period	Contractor	TMEIA Avoid dust generation		Y		~
4.8.1	3.8	Open dropping heights for excavated materials shall be controlled to a maximum height of 2m to minimise the fugitive dust arising from unloading.		Contractor	TMEIA Avoid dust generation		Y		~
4.8.1	3.8	During transportation by truck, materials shall not be loaded to a level higher than the side and tail boards, and shall be dampened or covered before transport.		Contractor	TMEIA Avoid dust generation		Y		~

Legend: D=Design, C=Construction, O=Operation

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	plementa Stages	tion	Status *
	Kererence					D	С	0	
4.8.1	3.8	Materials having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. The tarpaulin shall be properly secured and shall extend at least 300mm over the edges of the side and tail boards.	, 0	Contractor	TMEIA Avoid dust generation		Y		<>
4.8.1	3.8	No earth, mud, debris, dust and the like shall be deposited on public roads. Wheel washing facility shall be usable prior to any earthworks excavation activity on the site.		Contractor	TMEIA Avoid dust		Y		1
4.8.1	3.8	Areas of exposed soil shall be minimised to areas in which works have been completed shall be restored as soon as is practicable.	All exposed surfaces / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	All stockpiles of aggregate or spoil shall be enclosed or covered and water applied in dry or windy condition.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		<>
4.11	Section 3	EM&A in the form of 1 hour and 24 hour dust monitoring and site audit.	All representative existing ASRs / throughout construction period	Contractor	EM&A Manual		Y		√
WATER QUAL	ITY								l
Marine Works (Seq	uence A)								
6.1	Annex A	Construction of seawalls to be advanced by at least 200m before the main reclamation dredging and filling can commence. The protection by advanced seawall is a dynamic process depending on the progress of the construction activities and the stage when such protection could be realised is illustrated in Figure 6.2a and detailed in Appendix D6a. The part of the works where such measures can be undertaken for the majority of the time includes the following locations:	backfilling works	Contractor	TM-EIAO		Y		Ý
Figure 6.2a Appendix D6a		- TM-CLKL northern reclamation;							
6.1	-	a maximum of 50% public fill to be used for all seawall filling below +2.5mPD for TM-CLKL southern and northern landfalls.	TM-CLKL seawall filling	Contractor	TM-EIAO		Y		√

Legend: D=Design, C=Construction, O=Operation

EIA Reference	Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Reference					D	С	0	
6.1	-	a maximum of 30% public fill to be used for reclamation filling below +2.5mPD for TM-CLKL southern landfall	TM-CLKL southern landfall reclamation filling	Contractor	TM-EIAO		Y		N/A
6.1	-	a maximum of 100% public fill to be used for reclamation filling below +2.5mPD for TM-CLKL northern landfall	TM-CLKL northern landfall reclamation filling	Contractor	TM-EIAO		Y		✓
6.1	-	Use of cage type silt curtains round allgrab dredgers during the HKBCF, HKLR and TM-CLKL southern reclamation works.	All areas dredging works	Contractor	TM-EIAO		Y		•
	Figure 1.1 of Annex C	A layer of floating type silt curtain will be applied when dredging and reclamation works are being undertaken at Portion N-a as shown in Figure 1.1 of Annex C of the EM&A Manual.		Contractor	TM-EIAO		Y		~
6.1	-	Trailer suction hopper dredgers shall not allow mud to overflow.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		1
6.1	-	The use of Lean Material Overboard (LMOB) systems shall be prohibited.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		~

Legend: D=Design, C=Construction, O=Operation

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	plementa Stages	tion	Status *
	Reference					D	C	0	
6.1	Annex A	For other parts of the reclamation works construction of seawalls to be advanced by at least 200m before the main reclamation dredging and filling can commence. It should be noted that the protection by advanced seawall is a dynamic process depending on the progress of the construction activities and the stage when such protection could be realised is illustrated in Figure 6.2b and detailed in Appendices D6b. The part of the works where such measures can be undertaken for the majority of the time includes the following locations:	Portion D of HKBCF and HKLR	Contractor	TM-EIAO		Y		~
Figure 6.2b Appendix D6b		 TM-CLKL northern reclamation; Reclamation filling for Portion D of HKBCF; Reclamation filling for FSD berth of HKBCF; and 							
		- Reclamation dredging and filling for Portion 1 of HKLR;							
6.1	-	The filling material for the other parts of the works are the same as Sequence A;	All other areas/backfilling works	Contractor	TM-EIAO		Y		N/A
6.1	5.7	Cage type silt curtain (with steel enclosure) shall be used for grab dredgers working in the site of HKBCF and TM- CLKL southern reclamation. Cage type silt curtains will be applied round all grab dredgers at other works area.	grab dredging	Contractor	TM-EIAO		Y		~
6.1	Annex A	A layer of floating type silt curtain will be applied around all works as defined in Appendix D6b.	All areas/ through out marine works	Contractor	TM-EIAO		Y		~
6.1	-	TM-CLKL northern landfall: - Reclamation filling shall not proceed until at least 200m section of leading seawall at both the east and west sides of the reclamation are formed above +2.5 mPD, except for 100m gaps for marine access;	L	Contractor	TM-EIAO		Y		~

Legend: D=Design, C=Construction, O=Operation

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	olementa Stages	tion	Status *
	Reference					D	С	0	
General Marine W	orks								
6.1	-	Use of TBM for the construction of the submarine tunnel.	Tunnel works / Construction phase	Contractor	TM-EIAO		Y		N/A
6.1	-	Export dredged spoils from NWWCZ.	All areas as much as possible / dredging activities	Contractor	DASO Permit conditions		Y		✓
6.1	-	Where public fill is proposed for filling below +2.5mPD, the fine content in the public fill will be controlled to 25%	All areas/ backfilling works	Contractor	TM-EIAO		Y		N/A
6.1	-	Where sand fill is proposed for filling below +2.5mPD, the fine content in the sand fill will be controlled to 5%.	All areas/ backfilling works	Contractor	TM-EIAO		Y		N/A
6.1	-	Mechanical grabs shall be designed and maintained to avoid spillage and should seal tightly while being lifted.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		~
6.1	-	Barges and hopper dredgers shall have tight fitting seals to their bottom openings to prevent leakage of material.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		~
6.1	-	Any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		
6.1	-	Loading of barges and hoppers shall be controlled to prevent splashing of dredged material to the surrounding water. Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation.	construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		~

Legend: D=Design, C=Construction, O=Operation

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Reference					D	С	0	
6.1	-	Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		~
6.1	-	Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action;	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		N/A
6.1	-	All vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash.	construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		N/A
6.1	-	The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site.		Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		~
6.1	5.2	Silt curtain shall have proved effectiveness from the producer and shall be fully maintained throughout the works by the contractor.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		1
6.1	-	The daily maximum production rates shall not exceed those assumed in the water quality assessment.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		~
6.1	-	The dredging and filling works shall be scheduled to spread the works evenly over a working day.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		~

Legend: D=Design, C=Construction, O=Operation

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lementa Stages	tion	Status *
	Reference					D	С	0	
Land Works									
6.1	-	Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		√
6.1	-	Sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided.	construction period	Contractor	TM-EIAO		Y		×
6.1	-	Storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	*	Contractor	TM-EIAO		Y		<>
6.1	-	Silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm.		Contractor	TM-EIAO		Y		1
6.1	-	Temporary access roads should be surfaced with crushed stone or gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		~
6.1	-	Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.		Contractor	TM-EIAO		Y		1
6.1	-	Measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		~
6.1	-	Open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms.		Contractor	TM-EIAO		Y		~

Legend: D=Design, C=Construction, O=Operation

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	plementa Stages	tion	Status *
	Reference					D	C	0	1
6.1	5.8	Manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers.	construction period	Contractor	TM-EIAO		Y		~
6.1	-	Discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.		Contractor	TM-EIAO		Y		~
6.1	-	All vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit.	construction period	Contractor	TM-EIAO		Y		1
6.1	-	Wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		√
6.1	-	Section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		√
6.1	-	Wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		1
6.1	-	Vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal.	construction period	Contractor	TM-EIAO		Y		N/A
6.1	-	The Contractor shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately.		Contractor	TM-EIAO		Y		√
6.1	-	Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance.	All areas/ throughout construction period	Contractor	TM-EIAO Waste Disposal Ordinance		Y		~

Legend: D=Design, C=Construction, O=Operation

EIA Reference	Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	Implementation Stages		Status *
	Reference					D	С	0	
6.1		All fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank.	construction period	Contractor	TM-EIAO		Y		~
6.1		Surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓

Legend: D=Design, C=Construction, O=Operation

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	plementa Stages	tion	Status *
	Reference					D	C	0	1
6.1	-	Roadside gullies to trap silt and grit shall be provided prior to discharging the stormwater into the marine environment. The sumps will be maintained and cleaned at regular intervals.		Design Consultant/ Contractor	TM-EIAO	Y		Y	
6.1	Section 5	All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good working practice.	All areas/ throughout l construction period	Contractor	EM&A Manual		Y		-
Water Quality Mor	nitoring								
6.1	Section 5	Water quality monitoring shall be undertaken for suspended solids, turbidity, and dissolved oxygen. Nutrients and metal parameters shall also be measured for Mf sediment operations (only HKBCF and HKLR required handling of Mf sediment) during baseline, backfilling and post construction period. One year operation phase water quality monitoring at designated stations.	s as defined in EM&A Manual, Section 5/ Before, through-out marine construction period, post construction and monthly	Contractor	EM&A Manual		Y	Y	~
ECOLOGY									
8.14	6.3	Specification for and implement pre, during and post construction dolphin abundance monitoring.	All Areas/Detailed Design/ during construction works/post construction	Design Consultant/ Contractor	TMEIA	Y	Y	Y	~
8.14	6.3,6.5	Specification and implementation of 250m dolphin exclusion zone.	All dredging and reclamation areas/Detailed Design/during all reclamation and dredging works	Design Consultant/ Contractor	TMEIA	Y	Y		*
8.15	6.3, 6.5	Specification and deployment of an artificial reef of an area of 3,600m2 in an area where fishing activities are prohibited.	f Area of prohibited fishing activities/Detailed Design/towards end of construction period	TM-CLKL/ HKBCF Design Consultant/TM- CLKL/ HKBCF Contractor	TMEIA	Y		Y	N/A. To be implemente d by AFCD.
8.14	6.3, 6.5	Specification and implementation of marine vessel control specifications	All areas/Detailed Design/during construction works	Design Consultant/ Contractor	TMEIA	Y	Y		✓

Legend: D=Design, C=Construction, O=Operation

EIA Reference	EM&A Manual		Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
	Kererence					D	C	0	1
8.14	6.3, 6.5	Design and implementation of acoustic decoupling methods for dredging and reclamation works	All areas/ Detailed Design/during dredging and reclamation works	Design Consultant/ Contractor	TMEIA	Y	Y		√
8.15	6.3, 6.4	Pre-construction phase survey and coral translocation	Detailed Design/Prior to construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓
8.15	6.5	Audit coral translocation success	Post translocation	Contractor	TMEIA		Y		✓
7.13	6.5	The loss of habitat shall be supplemented by enhancement planting in accordance with the landscape mitigation schedule.	All areas / As soon as accessible	Contractor	TMEIA		Y		N/A
7.13	6.5	Spoil heaps shall be covered at all times.	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Avoid damage and disturbance to the remaining and surrounding natural habitat	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Placement of equipment in designated areas within the existing disturbed land	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Disturbed areas to be reinstated immediately after completion of the works.	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Construction activities should be restricted to the proposed works boundary.	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
LANDSCAPE	AND VISUAI								
10.9	7.6	The colour and shape of the toll control buildings, ventilation building and administration building shall adopt a design which could blend it into the vicinity elements, and the details will be developed in detailed design stage (DM2)	All areas/detailed design	Design Consultant	TMEIA	Y			N/A
10.9	7.6	Aesthetic design of the viaduct, retaining wall and other structures will be developed under ACABAS submission (DM5)	All areas/detailed design	Design Consultant	TMEIA	Y			N/A
10.9	7.6	Screening of construction works by hoardings around works area in visually unobtrusive colours, to screen works (CM5)	All areas/detailed design/ during construction/post construction	Design Consultant/ Contractor	TMEIA	Y	Y		~
10.9	7.6	Control night-time lighting and glare by hooding all lights (CM6)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A

Legend: D=Design, C=Construction, O=Operation

EIA Reference	EM&A Manual	ual	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
	Reference					D	C	0	1
10.9	7.6	Ensure no run-off into water body adjacent to the Project Area (CM7)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (CM8)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		√
10.9	7.6	Aesthetically pleasing design (visually unobtrusive and non- reflective) as regard to the form, material and finishes shall be incorporated to all buildings, engineering structures and associated infrastructure facilities (OM5)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	N/A
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (OM6)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	N/A
WASTE									
12.6		The Contractor shall identify a coordinator for the management of waste.	Contract mobilisation	Contractor	TMEIA		Y		✓
12.6		The Contractor shall prepare and implement a Waster Management Plan which specifies procedures such as a ticketing system, to facilitate tracking of loads and to ensure that illegal disposal of wastes does not occur, and protocols for the maintenance of records of the quantities of wastes generated, recycled and disposed. A recording system for the amount of waste generated, recycled and disposed (locations) should be established.		Contractor	TMEIA, Works Branch Technical Circular No. 5/99 for the Trip-ticket System for Disposal of Construction and Demolition Material		Y		

Legend: D=Design, C=Construction, O=Operation

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	olementa Stages	tion	Status *
	Reference					D	C	0	
12.6		The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges.	Contract mobilisation	Contractor	TMEIA, Land (Miscellaneous Provisions) Ordinance (Cap 28); Waste Disposal Ordinance (Cap 354); Dumping at Sea Ordinance (Cap 466); Water Pollution Control Ordinance.		Y		•
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedures including waste reduction, reuse and recycling.		Contractor	TMEIA		Y		√
12.6	8.1	The extent of cutting operation should be optimised where possible. Earth retaining structures and bored pile walls should be proposed to minimise the extent of cutting.	0	Contractor	TMEIA		Y		√
12.6	8.1	The surplus surcharge should be transferred to a fill bank	Reclamation areas / after surcharge works	Contractor	TMEIA		Y		N/A
12.6	8.1	Rock armour from the existing seawall should be reused on the new sloping seawall as far as possible	All areas / throughout construction period	Contractor	TMEIA		Y		√
12.6	8.1	The site and surroundings shall be kept tidy and litter free.	All areas / throughout construction period	Contractor	TMEIA		Y		<>
12.6	8.1	No waste shall be burnt on site.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Provisions to be made in contract documents to allow and promote the use of recycled aggregates where appropriate.	Detailed Design	Design Consultant	TMEIA	Y			✓
12.6	8.1	The Contractor shall be prohibited from disposing of C&D materials at any sensitive locations. The Contractor should propose the final disposal sites in the EMP and WMP for approval before implementation.	construction period	Contractor	TMEIA		Y		~

Legend: D=Design, C=Construction, O=Operation

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	plementa Stages	tion	Status *
	Reference					D	C	0	1
12.6	8.1	Stockpiled material shall be covered by tarpaulin and /or watered as appropriate to prevent windblown dust/ surface run off.	All areas / throughout construction period	Contractor	TMEIA		Y		~
12.6	8.1	Excavated material in trucks shall be covered by tarpaulins to reduce the potential for spillage and dust generation.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Wheel washing facilities shall be used by all trucks leaving the site to prevent transfer of mud onto public roads.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Dredged marine mud shall be disposed of in a gazetted marine disposal ground under the requirements of the Dumping at Seas Ordinance.		Contractor	TMEIA		Y		✓
12.6	8.1	Standard formwork or pre-fabrication should be used as far as practicable so as to minimise the C&D materials arising. The use of more durable formwork/plastic facing for construction works should be considered. The use of wooden hoardings should be avoided and metal hoarding should be used to facilitate recycling. Purchasing of construction materials should avoid over-ordering and wastage.	construction period	Contractor	TMEIA		Y		1
12.6	8.1	The Contractor should recycle as many C&D materials (this is a waste section) as possible on-site. The public fill and C&D waste should be segregated and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper disposal. Where practicable, the concrete and masonry should be crushed and used as fill materials. Steel reinforcement bar should be collected for use by scrap steel mills. Different areas of the sites should be considered for segregation and storage activities.	construction period	Contractor	TMEIA		Y		`
12.6	8.1	All falsework will be steel instead of wood.	All areas / throughout construction period	Contractor	TMEIA		Y		√

Legend: D=Design, C=Construction, O=Operation

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	plementa Stages	tion	Status *
	Kererence					D	C	0	
12.6	8.1	Chemical waste producers should register with the EPD. Chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows: <i>f</i> suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed; <i>f</i> Having a capacity of <450L unless the specifications have been approved by the EPD; and w Chinese according to the instructions prescribed in Schedule 2 of the Regulations. <i>f</i> Clearly labelled and used solely for the storage of chemical wastes; <i>f</i> Enclosed with at least 3 sides; <i>f</i> Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest; <i>f</i> Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and	construction period	Contractor	TMEIA		Y		\$
		f Incompatible materials are adequately							
		separated.							
12.6	8.1	Waste oils, chemicals or solvents shall not be disposed of to drain,	All areas / throughout construction period	Contractor	TMEIA		Y		
12.6	8.1	Adequate numbers of portable toilets should be provided for on- site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilising them.		Contractor	TMEIA		Y		~
12.6	8.1	Night soil should be regularly collected by licensed collectors.	All areas / throughout construction period	Contractor	TMEIA		Y		N/A

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing Implemen Agen		Relevant Standard or Requirement	Stages			Status *
	Reference					D	С	0	
12.6	8.1	General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins shall be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By- laws. In addition, general refuse shall be cleared daily and shall be disposed of to the nearest licensed landfill or refuse transfer station. Burning of refuse on construction sites is prohibited.	construction period	Contractor	TMEIA		Y		<>
12.6	8.1	All waste containers shall be in a secure area on hardstanding;	All areas / throughout construction period	Contractor	TMEIA		Y		1
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including waste reduction, reuse and recycling.		Contractor	TMEIA		Y		-
12.6	8.1	Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the Contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	construction period	Contractor	TMEIA		Y		~
12.6	Section 8	EM&A of waste handling, storage, transportation, disposal procedures and documentation through the site audit programme shall be undertaken.	0	Contractor	EM&A Manual		Y		_
CULTURAL HI	ERITAGE								
11.8	Section 9	EM&A in the form of audit of the mitigation measures	All areas / throughout construction period	Highways Department	EIAO-TM		Y		N/A

* Remarks:

- ✓ Compliance of Mitigation Measures
- <> Compliance of Mitigation but need improvement
- x Non-compliance of Mitigation Measures
- ▲ Non-compliance of Mitigation Measures but rectified by Contractor
- Δ Deficiency of Mitigation Measures but rectified by Contractor
- N/A Not Applicable in Reporting Period

Legend: D=Design, C=Construction, O=Operation

Appendix D

Summary of Action and Limit Levels

Parameters	Action	Limit
24 Hour TSP Level in µg/m ³	ASR1 = 213	260
	ASR5 = 238	
	AQMS1 = 213	
	ASR6 = 238	
	ASR10 = 214	
1 Hour TSP Level in $\mu g / m^3$	ASR1 = 331	500
C C	ASR5 = 340	
	AQMS1 = 335	
	ASR6 = 338	
	ASR10 = 337	

Table D1Action and Limit Levels for 1-hour and 24-hour TSP

Table D2Action and Limit Levels for Impact Dolphin Monitoring

	North Lantau Social Cluster			
	NEL	NWL		
Action Level	STG < 70% of baseline &	STG < 70% of baseline &		
	ANI < 70% of baseline	ANI < 70% of baseline		
Limit Level	[STG < 40% of baseli	[STG < 40% of baseline & ANI < 40% of baseline]		
		and		
	STG < 40% of baseli	ne & ANI < 40% of baseline		
Notes:				
1. STG means quar	terly encounter rate of number of dolp	phin sightings, which is 6.00		
NEL and 0.95 in	NWL during the baseline monitoring	married		

2. ANI means quarterly encounter rate of total number of dolphins, which is **22.19 in NEL** and **44.66 in NWL** during the baseline monitoring period

3. For North Lantau Social Cluster, AL will be trigger if NEL or NWL fall below the criteria; LL will be triggered if both NEL and NWL fall below the criteria.

Table D3Derived Value of Action Level (AL) and Limit Level (LL)

North Lantau Social Cluster			
NEL	NWL		
STG < 4.2 & ANI< 15.5	STG < 6.9 & ANI < 31.3		
NEL = [STG <	< 2.4 & ANI <8.9]		
á	and		
NWL = [STG <	< 3.9 & ANI <17.9]		
	NEL STG < 4.2 & ANI< 15.5 NEL = [STG <		

Appendix E

Copies of Calibration Certificates for Air Quality Monitoring

Location Calibrated by Date	:	ASR 5 P.F.Yeung 11/06/2017
Sampler		
Model	:	TE-5170
Serial Number	:	S/N 0816
Calibration Orifice and Standa	rd Calibra	tion Relationship
Serial Number	:	2454
Service Date	:	20 March 2017
Slope (m)	:	2.08464
Intercept (b)	:	-0.036840
Correlation Coefficient(r)	:	0.99994
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1008
Ta(K)		304
1 (11)	•	507

Resistance Plate		dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.2	3.305	1.603	55	54.32
2	13 holes	8.8	2.930	1.423	49	48.40
3	10 holes	6.0	2.419	1.178	42	41.48
4	7 holes	4.0	1.975	0.965	36	35.55
5	5 holes	2.5	1.562	0.767	30	29.63

 $Notes: Z=SQRT\{dH(Pa/Pstd)(Tstd/Ta)\}, X=Z/m-b, Y(Corrected Flow)=IC*\{SQRT(Pa/Pstd)(Tstd/Ta)\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m):<u>29.176</u> Intercept(b):<u>7.236</u>

Correlation Coefficient(r): 0.9996

Checked by: <u>Magnum Fan</u> Date: <u>15/06/2017</u>

Location Calibrated by Date	:	ASR10 P.F.Yeung 11/06/2017
Sampler		
Model	:	TE-5170
Serial Number	:	S/N 8162
Calibration Orifice and Standar	rd Calibra	tion Relationship
Serial Number	:	2454
Service Date	:	20 March 2017
Slope (m)	:	2.08464
Intercept (b)	:	-0.036840
Correlation Coefficient(r)	:	0.99994
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
		1008
Pa (hpa)	•	
Ta(K)	:	304

Resistance Plate		dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.4	3.335	1.617	57	56.30
2	13 holes	9.0	2.963	1.439	50	49.38
3	10 holes	6.2	2.459	1.197	43	42.47
4	7 holes	4.2	2.024	0.989	36	35.55
5	5 holes	2.4	1.530	0.752	28	27.65

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b, Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

Sampler Calibration Relationship (Linear Regression)

Slope(m):32.549

Intercept(b): 3.252

Correlation Coefficient(r): 0.9992

Checked by: <u>Magnum Fan</u>

Location Calibrated by Date	:	AQMS1 P.F.Yeung 11/06/2017
Sampler		
Model	:	TE-5170
Serial Number	:	S/N 1253
Calibration Orifice and Standar Serial Number	d Calibra	ation Relationship 2454
Service Date	•	24.54 20 March 2017
~	•	
Slope (m)	:	2.08464
Intercept (b)	:	-0.036840
Correlation Coefficient(r)	:	0.99994
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
<u>Calibration Condition</u> Pa (hpa) Ta(K)	:	1008 304

Resistance Plate		dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.8	3.393	1.645	56	55.31
2	13 holes	9.4	3.028	1.470	50	49.38
3	10 holes	6.7	2.556	1.244	43	42.47
4	7 holes	4.5	2.095	1.023	35	34.57
5	5 holes	2.4	1.530	0.752	27	26.67

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b, Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

Sampler Calibration Relationship (Linear Regression)

Slope(m):32.222

Intercept(b):2.151

Correlation Coefficient(r): 0.9995

Checked by: <u>Magnum Fan</u>

Location Calibrated by Date	: :	ASR 1 P.F.Yeung 11/06/2017
<u>Sampler</u> Model Serial Number	:	TE-5170 S/N 0146

Calibration Orifice and Standard Calibration Relationship

Serial Number	:	2454
Service Date	:	20 March 2017
Slope (m)	:	2.08464
Intercept (b)	:	-0.036840
Correlation Coefficient(r)	:	0.99994

Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1008
Ta(K)	:	304

Resistance Plate		dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.2	3.305	1.603	54	53.33
2	13 holes	9.3	3.012	1.462	49	48.39
3	10 holes	6.5	2.518	1.226	42	41.48
4	7 holes	4.2	2.024	0.989	34	33.58
5	5 holes	2.6	1.593	0.782	27	26.67

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b, Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

Sampler Calibration Relationship (Linear Regression)

Slope(m):<u>32.166</u> Intercept(b):<u>1.696</u>

correlation Coefficient(r): 0.9997

Checked by: <u>Magnum Fan</u>

: : :	ASR 6 P.F.Yeung 11/06/2017
:	TE-5170
:	S/N 3957
Calibratio	on Relationship
:	2454
:	20 March 2017
:	2.08464
:	-0.036840
:	0.99994
	: : : : : : : :

Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1008
Ta(K)	:	304

Resistance Plate		dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.6	3.364	1.631	56	55.31
2	13 holes	9.2	2.996	1.455	50	49.38
3	10 holes	6.6	2.537	1.235	44	43.46
4	7 holes	4.5	2.095	1.023	36	35.55
5	5 holes	2.7	1.623	0.796	29	28.64

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b, Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

Sampler Calibration Relationship (Linear Regression)

Slope(m):<u>31.945</u>

Intercept(b): <u>3.243</u> Co

Correlation Coefficient(r): 0.9991

Checked by: Magnum Fan

Sampler Model:TE-5170Serial Number:S/N 0816Calibration Orifice and Standard Calibration Relationship Serial Number:2454Service Date:20 March 2017Slope (m):2.08464Intercept (b):-0.036840Correlation Coefficient(r):0.99994Standard Condition Pstd (hpa):1013Tstd (K):298.18Calibration Condition Pa (hpa):1005	Location Calibrated by Date	: : :	ASR 5 P.F.Yeung 09/08/2017
Serial Number:SolutionSerial Number:S/N 0816Calibration Orifice and Standard Calibration RelationshipSerial Number:2454Service Date:20 March 2017Slope (m):2.08464Intercept (b):-0.036840Correlation Coefficient(r):0.99994Standard Condition			
Calibration Orifice and Standard Calibration RelationshipSerial Number:2454Service Date:20 March 2017Slope (m):2.08464Intercept (b):-0.036840Correlation Coefficient(r):0.99994Standard Condition		:	
Serial Number : 2454 Service Date : 20 March 2017 Slope (m) : 2.08464 Intercept (b) : -0.036840 Correlation Coefficient(r) : 0.99994 Standard Condition . . Pstd (hpa) : 1013 Tstd (K) : 298.18 Calibration Condition . .	Serial Number	:	S/N 0816
Service Date : 20 March 2017 Slope (m) : 2.08464 Intercept (b) : -0.036840 Correlation Coefficient(r) : 0.99994 Standard Condition		d Calibra	
Slope (m):2.08464Intercept (b):-0.036840Correlation Coefficient(r):0.99994Standard Condition.1013Pstd (hpa):1013Tstd (K):298.18Calibration Condition.		:	-
Intercept (b):-0.036840Correlation Coefficient(r):0.99994Standard Condition		:	20 March 2017
Correlation Coefficient(r):0.99994Standard Condition Pstd (hpa):1013 : 298.18Calibration Condition:298.18	Slope (m)	:	2.08464
Standard ConditionPstd (hpa):Tstd (K):298.18Calibration Condition	Intercept (b)	:	-0.036840
Standard ConditionPstd (hpa):Tstd (K):298.18Calibration Condition	Correlation Coefficient(r)	:	0.99994
Tstd (K) : 298.18 Calibration Condition			1012
Calibration Condition	· · ·	:	
	Tstd (K)	:	298.18
	<u>Calibration Condition</u> Pa (hpa)	:	1005
Ta(K) : 305	Ta(K)	:	305

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	10.2	3.144	1.526	51	50.21
2	13 holes	8.8	2.921	1.419	45	44.30
3	10 holes	6.6	2.529	1.231	40	39.38
4	7 holes	4.4	2.065	1.008	34	33.47
5	5 holes	2.8	1.647	0.808	26	25.60

 $Notes: Z = SQRT \{ dH(Pa/Pstd)(Tstd/Ta) \}, X = Z/m-b, Y(Corrected Flow) = IC* \{ SQRT(Pa/Pstd)(Tstd/Ta) \}$

Sampler Calibration Relationship (Linear Regression)

Slope(m):<u>32.235</u> Intercept(b):<u>-0.0361</u>

Correlation Coefficient(r): 0.9991

Checked by: <u>Magnum Fan</u> Date: <u>11/08/2017</u>

Location Calibrated by Date	:	ASR10 P.F.Yeung 09/08/2017
Sampler		
Model	:	TE-5170
Serial Number	:	S/N 8162
Calibration Orifice and Standa Serial Number Service Date Slope (m) Intercept (b) Correlation Coefficient(r)	rd Calibrat : : : :	tion Relationship 2454 20 March 2017 2.08464 -0.036840 0.99994
<u>Standard Condition</u> Pstd (hpa) Tstd (K)	:	1013 298.18
Calibration Condition Pa (hpa)	:	1005
Ta(K)	:	305

						1
Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.2	3.295	1.598	53	52.18
2	13 holes	9.2	2.986	1.450	48	47.26
3	10 holes	7.2	2.642	1.285	43	42.34
4	7 holes	4.7	2.134	1.042	35	34.46
5	5 holes	3.0	1.705	0.836	26	25.60

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b, Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

Sampler Calibration Relationship (Linear Regression)

Slope(m):<u>34.219</u> Intercept(b): -2.138 Correlation Coefficient(r): 0.9976

Checked by: <u>Magnum Fan</u>

Date: 11/08/17

Location Calibrated by Date	: : :	AQMS1 P.F.Yeung 09/08/2017
Sampler		
Model Serial Number	:	TE-5170 S/N 1253
Serial Number	:	S/IN 1255
Calibration Orifice and Standard	d Calibra	ation Relationship
Serial Number	:	2454
Service Date	:	20 March 2017
Slope (m)	:	2.08464
Intercept (b)	:	-0.036840
Correlation Coefficient(r)	:	0.99994
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1005
Ta(K)	:	305

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.1	3.425	1.661	52	51.20
2	13 holes	9.9	3.098	1.504	46	45.29
3	10 holes	7.5	2.696	1.311	40	39.38
4	7 holes	5.0	2.202	1.074	33	32.49
5	5 holes	3.1	1.733	0.849	27	26.58

 $Notes: Z = SQRT \{ dH(Pa/Pstd)(Tstd/Ta) \}, X = Z/m-b, Y(Corrected Flow) = IC* \{ SQRT(Pa/Pstd)(Tstd/Ta) \}$

Sampler Calibration Relationship (Linear Regression)

Slope(m):30.080 Intercept(b):0.496

Correlation Coefficient(r): 0.9980

Checked by: <u>Magnum Fan</u>

Date: 11/08/2017

Location	:	ASR 1
Calibrated by	:	P.F.Yeung
Date	:	09/08/2017
<u>Sampler</u> Model Serial Number	:	TE-5170 S/N 0146

Calibration Orifice and Standard Calibration Relationship

Serial Number	:	2454
Service Date	:	20 March 2017
Slope (m)	:	2.08464
Intercept (b)	:	-0.036840
Correlation Coefficient(r)	:	0.99994

Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1005
Ta(K)	:	305

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.6	3.353	1.626	53	52.18
2	13 holes	9.8	3.082	1.496	48	47.26
3	10 holes	7.6	2.714	1.320	42	41.35
4	7 holes	5.0	2.202	1.074	36	35.44
5	5 holes	3.2	1.761	0.863	28	27.57

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b, Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

Sampler Calibration Relationship (Linear Regression)

Slope(m):<u>31.141</u> Intercept(b):<u>1.034</u>

correlation Coefficient(r): 0.9972

Checked by: <u>Magnum Fan</u>

Date: <u>11/08/2017</u>

Location Calibrated by Date	: : :	ASR 6 P.F.Yeung 09/08/2017
<u>Sampler</u> Model Serial Number	:	TE-5170 S/N 3957
<u>Calibration Orfice and Standard</u> Serial Number	Calibra	ation Relationship 2454
Service Date Slope (m) Intercept (b)	: : :	20 March 2017 2.08464 -0.036840
Correlation Coefficient(r)	:	0.99994

Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1005
Ta(K)	:	305

Resistance Plate		dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.8	3.522	1.707	54	53.17
2	13 holes	9.3	3.002	1.458	47	46.27
3	10 holes	7.0	2.605	1.267	41	40.37
4	7 holes	4.6	2.112	1.031	33	32.49
5	5 holes	3.2	1.761	0.863	27	26.58

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b, Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

Sampler Calibration Relationship (Linear Regression)

Slope(m):<u>31.557</u> Intercept(b):<u>-0.148</u>

Correlation Coefficient(r): 0.9988

Checked by: <u>Magnum Fan</u>

Date: 11/08/2017



TISCH ENVIRONMENTAL, INC. 145 SOUTH MIAMI AVE VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Ma Operator		7 Rootsmeter Orifice I.I		438320 2454	Ta (K) - Pa (mm) -	293 759.46
========	==============				METER	ORFICE
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	DIFF Hg (mm)	DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00 1.00	1.4390 1.0240 0.9170 0.8730 0.7200	3.2 6.4 7.9 8.8 12.8	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1.0120 1.0078 1.0057 1.0045 0.9992	0.7033 0.9842 1.0967 1.1507 1.3878	$ \begin{array}{r} 1.4257\\2.0163\\2.2543\\2.3643\\2.8514\end{array} $		0.9958 0.9916 0.9895 0.9884 0.9831	0.6920 0.9683 1.0791 1.1322 1.3654	0.8784 1.2423 1.3889 1.4567 1.7568
Qstd slop intercept coefficie	t (b) =	2.08464 -0.03684 0.99994		Qa slope intercept coefficie	t (b) =	1.30537 -0.02270 0.99994
y axis =	SQRT [H20 (1	Pa/760) (298/5	[[a)]	y axis =	SQRT [H20 (7	[a/Pa)]

CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta) Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:

Qstd = $1/m\{ [SQRT(H2O(Pa/760)(298/Ta))] - b \}$ Qa = $1/m\{ [SQRT(H2O(Ta/Pa)] - b \}$

ENVIROTECH SERVICES CO.

Date of Calibration :	18 April 2017	
Brand of Test Meter:	Davis	
Model:	Vantage Pro 2 (s/n: AS160104014)	
Location :	Roof of Tuen Mun Firestation	
Procedures :		
1. Wind Still Test:	The wind speed sensor was hold by hand until it keep still	
2. Wind Speed Test:	The wind meter was on-site calibrated against the Anemom	ieter
3.Wind Direction Test	t : The wind meter was on-site calibrated against the marine c	ompass at four directions
Results:		

Wind Still Test

Wind Speed (m/s) 0.00

Wind Speed Test

Davis (m/s)	Anemometer (m/s)
0.5	0.6
1.0	1.1
2.1	2.3

Wind Direction Test

Davis (o)	Marine Compass (o)
269	270
359	0
91	90
180	180

Calibrated by:

Ao

Checked by: Fat

Yeung Ping Fai (Technical Officer) Ho Kam Fat (Senior Technical Officer)

Calibration Report of Wind Meter

Appendix F

EM&A Monitoring Schedules

HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Air Quality Impact Monitoring Schedule - August 2017

Air quality monitoring stations: ASR1, ASR5, ASR6, ASR10, AQMS1

i in quanty method ing each						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Aug	2-Aug	3-Aug	4-Aug	5-Aug
		1-hour TSP - 3 times			1-hour TSP - 3 times	
		24-hour TSP - 1 time			24-hour TSP - 1 time	
		Impact AQM			Impact AQM	
6-Aug		8-Aug	9-Aug		11-Aug	12-Aug
	1-hour TSP - 3 times			1-hour TSP - 3 times		
	24-hour TSP - 1 time			24-hour TSP - 1 time		
12 Ана	Impact AQM 14-Aug	15-Aug		Impact AQM 17-Aug	18-Aug	10 4.42
13-Aug 1-hour TSP - 3 times	14-Aug	15-Aug	1-hour TSP - 3 times	17-Aug	To-Aug	19-Aug 1-hour TSP - 3 times
24-hour TSP - 1 time			24-hour TSP - 1 time			24-hour TSP - 1 time
Impact AQM			Impact AQM			Impact AQM
20-Aug	21-Aug	22-Aug		24-Aug		
207.03	217,039	1-hour TSP - 3 times*	20,109	217.03	1-hour TSP - 3 times	20 / 109
					24-hour TSP - 1 time	
		Impact AQM				
		•			Impact AQM	
27-Aug	28-Aug	29-Aug	30-Aug	31-Aug		
	1-hour TSP - 3 times			1-hour TSP - 3 times		
	24-hour TSP - 1 time			24-hour TSP - 1 time		
	Impact AQM			Impact AQM		

HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Tentative Air Quality Impact Monitoring Schedule - September 2017

Air quality monitoring stations: ASR1, ASR5, ASR6, ASR10, AQMS1

Sunday Monday		Tuesday	Wednesday	Thursday	Friday	Saturday	
					1-Sep	2-Sep	
3-Sep	4-Sep	5-Sep	6-Sep	7-Sep	8-Sep		
1-hour TSP - 3 times			1-hour TSP - 3 times			1-hour TSP - 3 times	
24-hour TSP - 1 time			24-hour TSP - 1 time			24-hour TSP - 1 time	
Impact AQM			Impact AQM			Impact AQM	
10-Sep	11-Sep	12-Sep	13-Sep	14-Sep			
		1-hour TSP - 3 times			1-hour TSP - 3 times		
		24-hour TSP - 1 time			24-hour TSP - 1 time		
		Impact AQM			Impact AQM		
17-Sep			20-Sep		22-Sep	23-Sep	
	1-hour TSP - 3 times			1-hour TSP - 3 times	· · · · ·		
	24-hour TSP - 1 time			24-hour TSP - 1 time			
	Impact AQM			Impact AQM			
24-Sep	25-Sep	26-Sep	27-Sep	28-Sep	29-Sep	30-Sep	
1-hour TSP - 3 times			1-hour TSP - 3 times			1-hour TSP - 3 times	
24-hour TSP - 1 time			24-hour TSP - 1 time			24-hour TSP - 1 time	
Impact AQM			Impact AQM			Impact AQM	

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Impact Dolphin Monitoring Survey Monitoring Schedule - August 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Aug	2-Aug	3-Aug	4-Aug	5-Aug
6-Aug	7-Aug	8-Aug	9-Aug	10-Aug	11-Aug	12-Aug
	Impact Dolphin Monitoring			×		Ĭ
13-Aug	14-Aug	15-Aug	16-Aug	17-Aug	18-Aug	19-Aug
		Impact Dolphin Monitoring		×		Ĭ
20-Aug	21-Aug	22-Aug	23-Aug	24-Aug	25-Aug	26-Aug
	Impact Dolphin Monitoring					
27-Aug	28-Aug	29-Aug				
				Impact Dolphin Monitoring		

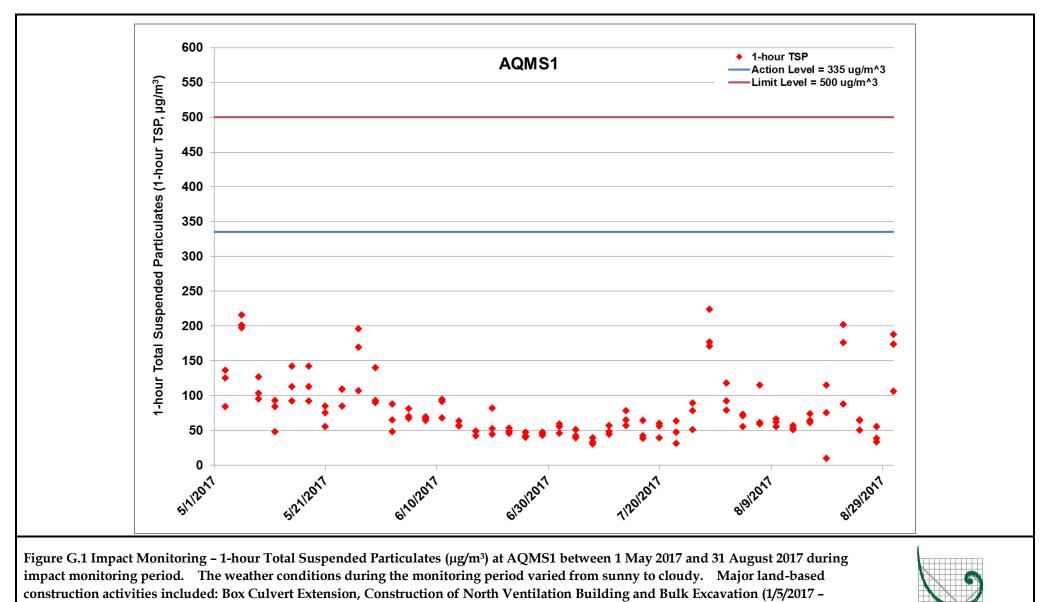
HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Tentative Impact Dolphin Monitoring Survey Monitoring Schedule - September 2017

Quarters	Maradau	Tura lau	We do a day	Thursday	Frider	Octorday
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday 1-Sep	Saturday 2-Sep
						2.000
3-Sep	4-Sep	5-Sep	6-Sep	7-Sep	8-Sep	9-Sep
10-Sep	11-Sep	12-Sep	13-Sep			16-Sep
					Impact Dolphin Monitoring	
17-Sep		19-Sep	20-Sep			23-Sep
	Impact Dolphin Monitoring				Impact Dolphin Monitoring	
24-Sep	25-Sep		27-Sep	28-Sep	29-Sep	30-Sep
		Impact Dolphin Monitoring				

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

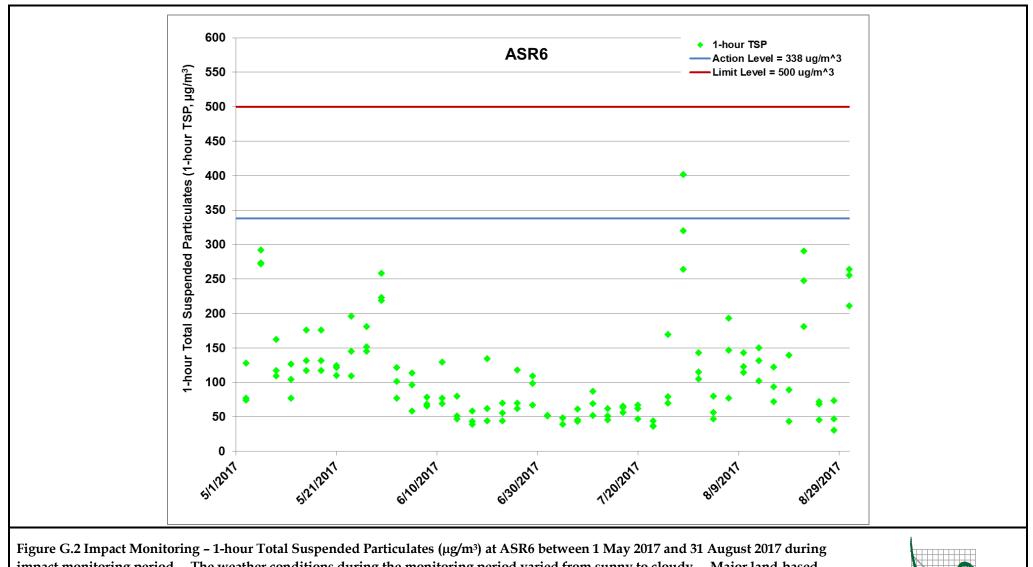
Appendix G

Impact Air Quality Monitoring Results



ERN

31/8/2017) Ref: 0212330_Impact AQM graphs_August 2017_REV a.xlsx



impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Box Culvert Extension, Construction of North Ventilation Building and Bulk Excavation (1/5/2017 – 31/8/2017) Ref: 0212330_Impact AQM graphs_August 2017_REV a.xlsx



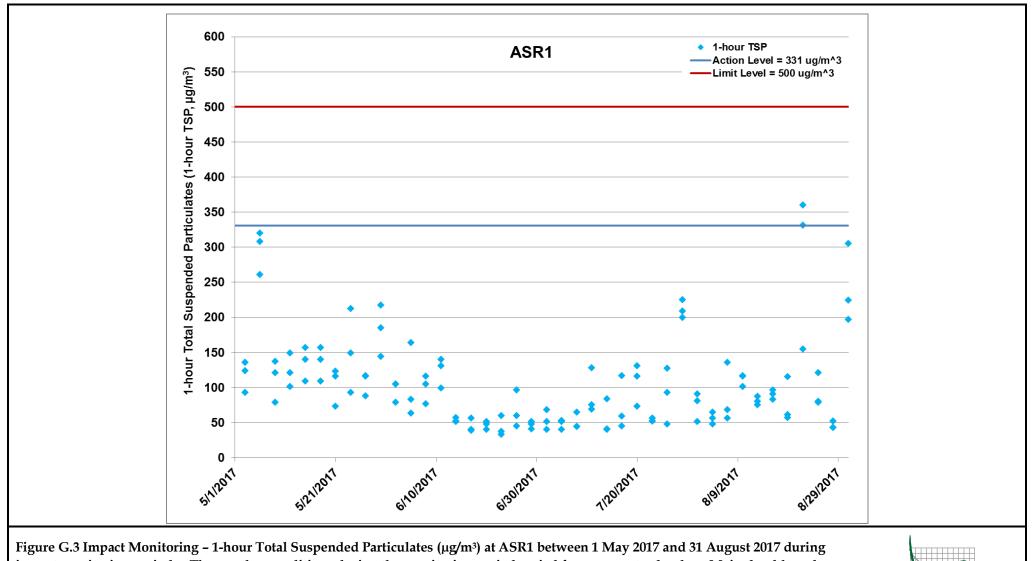


Figure G.3 Impact Monitoring – 1-hour Total Suspended Particulates (µg/m³) at ASR1 between 1 May 2017 and 31 August 2017 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Box Culvert Extension, Construction of North Ventilation Building and Bulk Excavation (1/5/2017 – 31/8/2017) *Ref:* 0212330_Impact AQM graphs_August 2017_REV a.xlsx



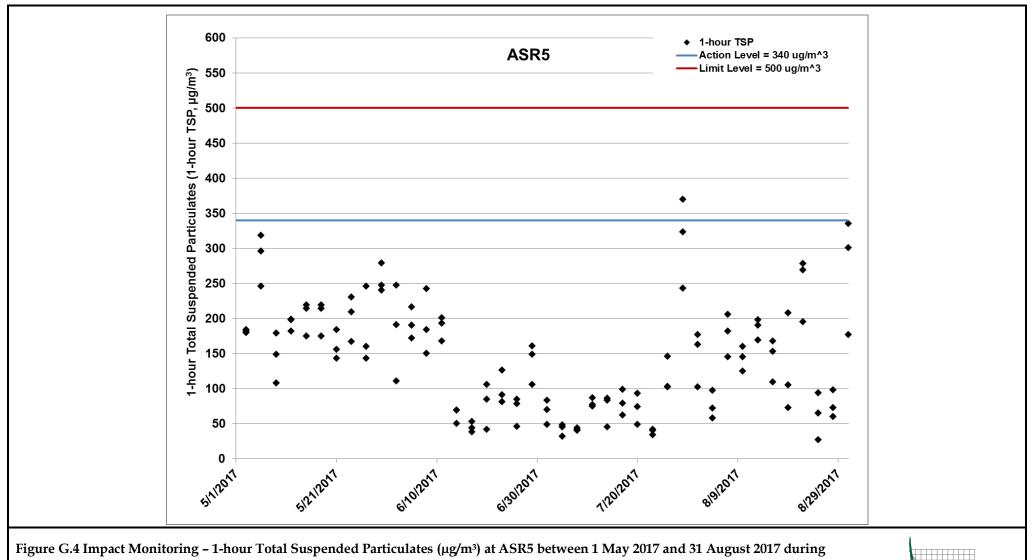
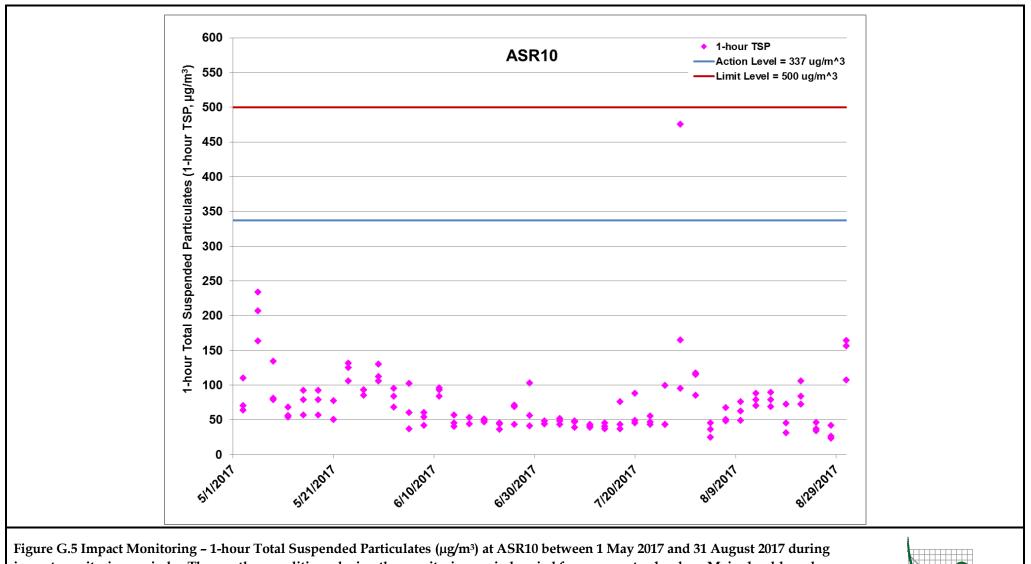


Figure G.4 Impact Monitoring – 1-hour Total Suspended Particulates (μg/m³) at ASR5 between 1 May 2017 and 31 August 2017 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Box Culvert Extension, Construction of North Ventilation Building and Bulk Excavation (1/5/2017 – 31/8/2017) *Ref:* 0212330_Impact AQM graphs_August 2017_REV a.xlsx





impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Box Culvert Extension, Construction of North Ventilation Building and Bulk Excavation (1/5/2017 – 31/8/2017) Ref: 0212330_Impact AQM graphs_August 2017_REV a.xlsx



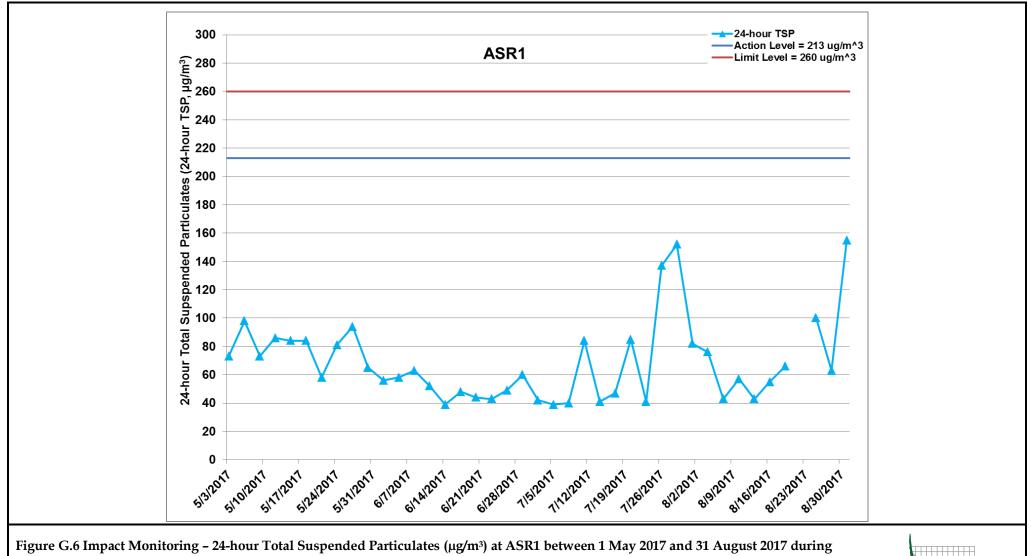


Figure G.6 Impact Monitoring – 24-hour Total Suspended Particulates (µg/m³) at ASR1 between 1 May 2017 and 31 August 2017 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Box Culvert Extension, Construction of North Ventilation Building and Bulk Excavation (1/5/2017 – 31/8/2017) Ref: 0212330_Impact AQM graphs_August 2017_REV a.xlsx



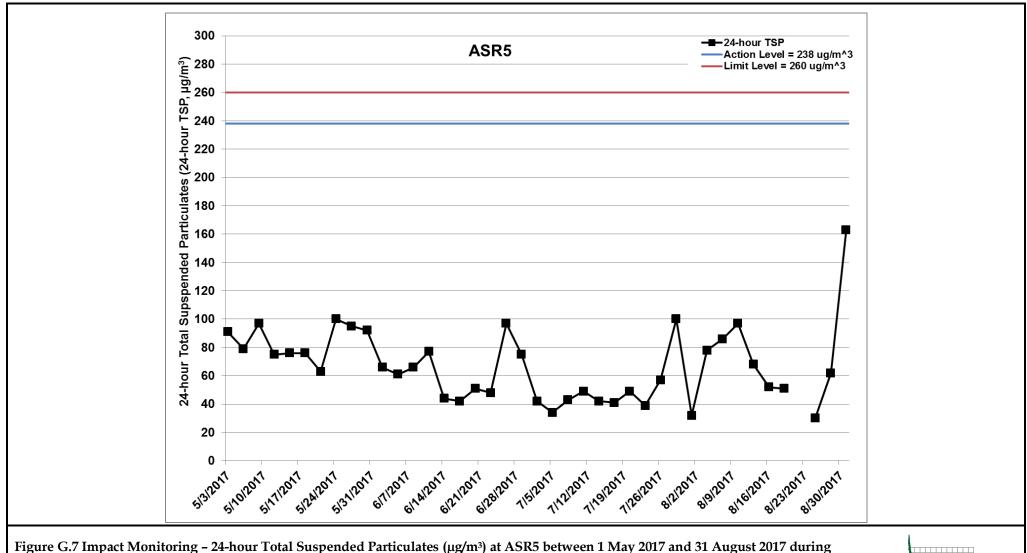
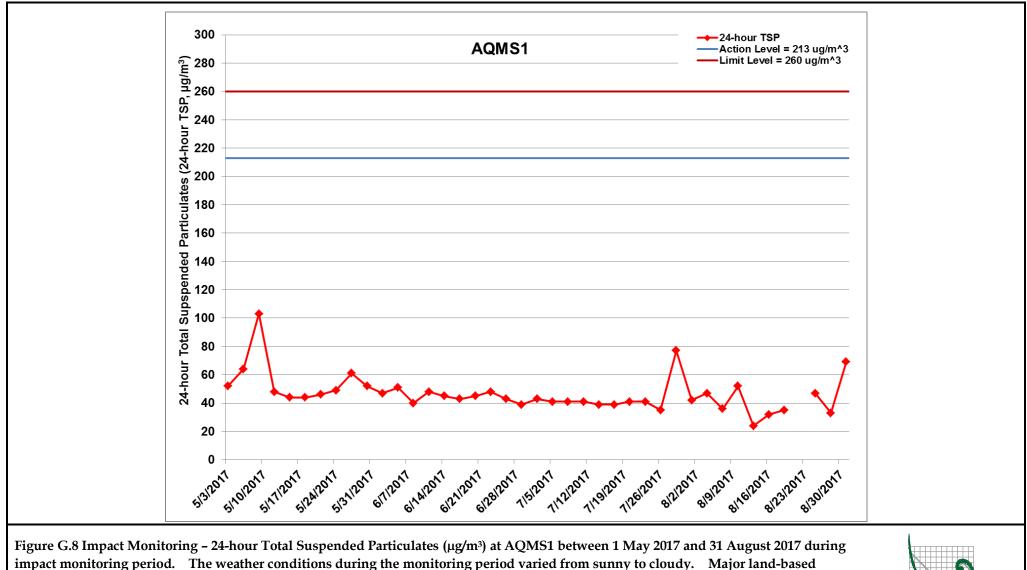


Figure G.7 Impact Monitoring – 24-hour Total Suspended Particulates (µg/m³) at ASR5 between 1 May 2017 and 31 August 2017 during
impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based
construction activities included: Box Culvert Extension, Construction of North Ventilation Building and Bulk Excavation (1/5/2017 –
31/8/2017)Ref:0212330_Impact AQM graphs_August 2017_REV a.xlsx





construction activities included: Box Culvert Extension, Construction of North Ventilation Building and Bulk Excavation (1/5/2017 – 31/8/2017) Ref: 0212330_Impact AQM graphs_August 2017_REV a.xlsx



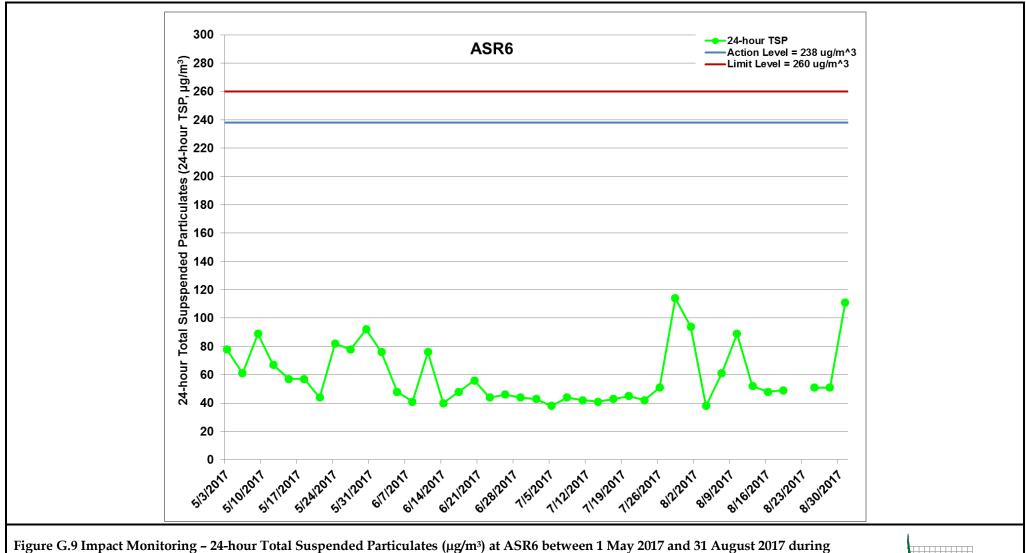
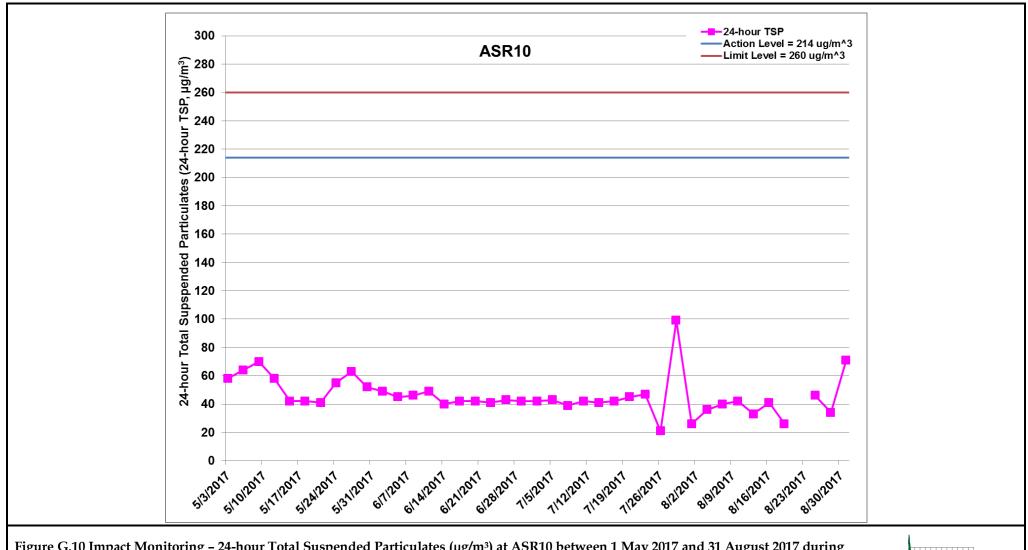


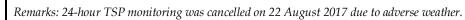
Figure G.9 Impact Monitoring – 24-hour Total Suspended Particulates (μg/m³) at ASR6 between 1 May 2017 and 31 August 2017 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Box Culvert Extension, Construction of North Ventilation Building and Bulk Excavation (1/5/2017 – 31/8/2017) *Ref:* 0212330_Impact AQM graphs_August 2017_REV a.xlsx





ERM

Figure G.10 Impact Monitoring – 24-hour Total Suspended Particulates (μg/m³) at ASR10 between 1 May 2017 and 31 August 2017 during
impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based
construction activities included: Box Culvert Extension, Construction of North Ventilation Building and Bulk Excavation (1/5/2017 –
31/8/2017) Ref: 0212330_Impact AQM graphs_August 2017_REV a.xlsx



Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-08-01	AQMS1	Sunny	14:03	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2017-08-01	AQMS1	Sunny	15:05	1-hour TSP	118	ug/m3
TMCLKL	HY/2012/08	2017-08-01	AQMS1	Sunny	16:07	1-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2017-08-01	ASR1	Sunny	13:51	1-hour TSP	91	ug/m3
TMCLKL	HY/2012/08	2017-08-01	ASR1	Sunny	14:53	1-hour TSP	51	ug/m3
TMCLKL	HY/2012/08	2017-08-01	ASR1	Sunny	15:55	1-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2017-08-01	ASR10	Sunny	13:18	1-hour TSP	117	ug/m3
TMCLKL	HY/2012/08	2017-08-01	ASR10	Sunny	14:20	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2017-08-01	ASR10	Sunny	15:22	1-hour TSP	115	ug/m3
TMCLKL	HY/2012/08	2017-08-01	ASR5	Sunny	13:41	1-hour TSP	163	ug/m3
TMCLKL	HY/2012/08	2017-08-01	ASR5	Sunny	14:43	1-hour TSP	177	ug/m3
TMCLKL	HY/2012/08	2017-08-01	ASR5	Sunny	15:45	1-hour TSP	102	ug/m3
TMCLKL	HY/2012/08	2017-08-01	ASR6	Sunny	13:30	1-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2017-08-01	ASR6	Sunny	14:32	1-hour TSP	143	ug/m3
TMCLKL	HY/2012/08	2017-08-01	ASR6	Sunny	15:34	1-hour TSP	115	ug/m3
TMCLKL	HY/2012/08	2017-08-04	AQMS1	Cloudy	12:40	1-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2017-08-04	AQMS1	Cloudy	14:03	1-hour TSP	55	ug/m3
TMCLKL	HY/2012/08	2017-08-04	AQMS1	Cloudy	15:08	1-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2017-08-04	ASR1	Cloudy	13:25	1-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2017-08-04	ASR1	Cloudy	14:56	1-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2017-08-04	ASR1	Cloudy	16:00	1-hour TSP	65	ug/m3
TMCLKL	HY/2012/08	2017-08-04	ASR10	Cloudy	12:50	1-hour TSP	45	ug/m3
TMCLKL	HY/2012/08	2017-08-04	ASR10	Cloudy	14:19	1-hour TSP	36	ug/m3
TMCLKL	HY/2012/08	2017-08-04	ASR10	Cloudy	15:22	1-hour TSP	25	ug/m3
TMCLKL	HY/2012/08	2017-08-04	ASR5	Cloudy	13:13	1-hour TSP	97	ug/m3
TMCLKL	HY/2012/08	2017-08-04	ASR5	Cloudy	14:45	1-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2017-08-04	ASR5	Cloudy	15:48	1-hour TSP	58	ug/m3
TMCLKL	HY/2012/08	2017-08-04	ASR6	Cloudy	13:02	1-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	2017-08-04	ASR6	Cloudy	14:33	1-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2017-08-04	ASR6	Cloudy	15:35	1-hour TSP	56	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-08-07	AQMS1	Sunny	13:49	1-hour TSP	115	ug/m3
TMCLKL	HY/2012/08	2017-08-07	AQMS1	Sunny	14:51	1-hour TSP	61	ug/m3
TMCLKL	HY/2012/08	2017-08-07	AQMS1	Sunny	15:53	1-hour TSP	59	ug/m3
TMCLKL	HY/2012/08	2017-08-07	ASR1	Sunny	13:36	1-hour TSP	136	ug/m3
TMCLKL	HY/2012/08	2017-08-07	ASR1	Sunny	14:38	1-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2017-08-07	ASR1	Sunny	15:40	1-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2017-08-07	ASR10	Sunny	13:02	1-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2017-08-07	ASR10	Sunny	14:04	1-hour TSP	50	ug/m3
TMCLKL	HY/2012/08	2017-08-07	ASR10	Sunny	15:06	1-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	2017-08-07	ASR5	Sunny	13:24	1-hour TSP	206	ug/m3
TMCLKL	HY/2012/08	2017-08-07	ASR5	Sunny	14:26	1-hour TSP	182	ug/m3
TMCLKL	HY/2012/08	2017-08-07	ASR5	Sunny	15:28	1-hour TSP	145	ug/m3
TMCLKL	HY/2012/08	2017-08-07	ASR6	Sunny	13:14	1-hour TSP	146	ug/m3
TMCLKL	HY/2012/08	2017-08-07	ASR6	Sunny	14:16	1-hour TSP	193	ug/m3
TMCLKL	HY/2012/08	2017-08-07	ASR6	Sunny	15:18	1-hour TSP	77	ug/m3
TMCLKL	HY/2012/08	2017-08-10	AQMS1	Sunny	14:27	1-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	2017-08-10	AQMS1	Sunny	15:29	1-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2017-08-10	AQMS1	Sunny	16:31	1-hour TSP	55	ug/m3
TMCLKL	HY/2012/08	2017-08-10	ASR1	Sunny	14:15	1-hour TSP	117	ug/m3
TMCLKL	HY/2012/08	2017-08-10	ASR1	Sunny	15:17	1-hour TSP	101	ug/m3
TMCLKL	HY/2012/08	2017-08-10	ASR1	Sunny	16:19	1-hour TSP	116	ug/m3
TMCLKL	HY/2012/08	2017-08-10	ASR10	Sunny	13:41	1-hour TSP	49	ug/m3
TMCLKL	HY/2012/08	2017-08-10	ASR10	Sunny	14:43	1-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2017-08-10	ASR10	Sunny	15:45	1-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2017-08-10	ASR5	Sunny	14:04	1-hour TSP	145	ug/m3
TMCLKL	HY/2012/08	2017-08-10	ASR5	Sunny	15:06	1-hour TSP	160	ug/m3
TMCLKL	HY/2012/08	2017-08-10	ASR5	Sunny	16:08	1-hour TSP	125	ug/m3
TMCLKL	HY/2012/08	2017-08-10	ASR6	Sunny	13:52	1-hour TSP	143	ug/m3
TMCLKL	HY/2012/08	2017-08-10	ASR6	Sunny	14:54	1-hour TSP	114	ug/m3
TMCLKL	HY/2012/08	2017-08-10	ASR6	Sunny	15:56	1-hour TSP	123	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-08-13	AQMS1	Sunny	09:57	1-hour TSP	57	ug/m3
TMCLKL	HY/2012/08	2017-08-13	AQMS1	Sunny	10:59	1-hour TSP	53	ug/m3
TMCLKL	HY/2012/08	2017-08-13	AQMS1	Sunny	12:01	1-hour TSP	51	ug/m3
TMCLKL	HY/2012/08	2017-08-13	ASR1	Sunny	09:46	1-hour TSP	87	ug/m3
TMCLKL	HY/2012/08	2017-08-13	ASR1	Sunny	10:48	1-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2017-08-13	ASR1	Sunny	11:50	1-hour TSP	75	ug/m3
TMCLKL	HY/2012/08	2017-08-13	ASR10	Sunny	09:12	1-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2017-08-13	ASR10	Sunny	10:14	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2017-08-13	ASR10	Sunny	11:16	1-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2017-08-13	ASR5	Sunny	09:35	1-hour TSP	190	ug/m3
TMCLKL	HY/2012/08	2017-08-13	ASR5	Sunny	10:37	1-hour TSP	169	ug/m3
TMCLKL	HY/2012/08	2017-08-13	ASR5	Sunny	11:39	1-hour TSP	198	ug/m3
TMCLKL	HY/2012/08	2017-08-13	ASR6	Sunny	09:24	1-hour TSP	150	ug/m3
TMCLKL	HY/2012/08	2017-08-13	ASR6	Sunny	10:26	1-hour TSP	102	ug/m3
TMCLKL	HY/2012/08	2017-08-13	ASR6	Sunny	11:28	1-hour TSP	131	ug/m3
TMCLKL	HY/2012/08	2017-08-16	AQMS1	Sunny	14:24	1-hour TSP	74	ug/m3
TMCLKL	HY/2012/08	2017-08-16	AQMS1	Sunny	15:26	1-hour TSP	64	ug/m3
TMCLKL	HY/2012/08	2017-08-16	AQMS1	Sunny	16:28	1-hour TSP	61	ug/m3
TMCLKL	HY/2012/08	2017-08-16	ASR1	Sunny	14:12	1-hour TSP	91	ug/m3
TMCLKL	HY/2012/08	2017-08-16	ASR1	Sunny	15:14	1-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	2017-08-16	ASR1	Sunny	16:16	1-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2017-08-16	ASR10	Sunny	13:38	1-hour TSP	89	ug/m3
TMCLKL	HY/2012/08	2017-08-16	ASR10	Sunny	14:40	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2017-08-16	ASR10	Sunny	15:42	1-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2017-08-16	ASR5	Sunny	14:01	1-hour TSP	168	ug/m3
TMCLKL	HY/2012/08	2017-08-16	ASR5	Sunny	15:03	1-hour TSP	153	ug/m3
TMCLKL	HY/2012/08	2017-08-16	ASR5	Sunny	16:05	1-hour TSP	109	ug/m3
TMCLKL	HY/2012/08	2017-08-16	ASR6	Sunny	13:49	1-hour TSP	122	ug/m3
TMCLKL	HY/2012/08	2017-08-16	ASR6	Sunny	14:51	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2017-08-16	ASR6	Sunny	15:53	1-hour TSP	72	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-08-19	AQMS1	Sunny	10:03	1-hour TSP	10	ug/m3
TMCLKL	HY/2012/08	2017-08-19	AQMS1	Sunny	11:05	1-hour TSP	115	ug/m3
TMCLKL	HY/2012/08	2017-08-19	AQMS1	Sunny	12:07	1-hour TSP	75	ug/m3
TMCLKL	HY/2012/08	2017-08-19	ASR1	Sunny	09:52	1-hour TSP	61	ug/m3
TMCLKL	HY/2012/08	2017-08-19	ASR1	Sunny	10:54	1-hour TSP	115	ug/m3
TMCLKL	HY/2012/08	2017-08-19	ASR1	Sunny	11:56	1-hour TSP	57	ug/m3
TMCLKL	HY/2012/08	2017-08-19	ASR10	Sunny	09:17	1-hour TSP	31	ug/m3
TMCLKL	HY/2012/08	2017-08-19	ASR10	Sunny	10:19	1-hour TSP	45	ug/m3
TMCLKL	HY/2012/08	2017-08-19	ASR10	Sunny	11:21	1-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2017-08-19	ASR5	Sunny	09:40	1-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2017-08-19	ASR5	Sunny	10:42	1-hour TSP	208	ug/m3
TMCLKL	HY/2012/08	2017-08-19	ASR5	Sunny	11:44	1-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2017-08-19	ASR6	Sunny	09:29	1-hour TSP	89	ug/m3
TMCLKL	HY/2012/08	2017-08-19	ASR6	Sunny	10:31	1-hour TSP	139	ug/m3
TMCLKL	HY/2012/08	2017-08-19	ASR6	Sunny	11:33	1-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2017-08-22	AQMS1	Sunny	14:14	1-hour TSP	176	ug/m3
TMCLKL	HY/2012/08	2017-08-22	AQMS1	Sunny	15:16	1-hour TSP	202	ug/m3
TMCLKL	HY/2012/08	2017-08-22	AQMS1	Rainy	16:18	1-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2017-08-22	ASR1	Sunny	14:03	1-hour TSP	155	ug/m3
TMCLKL	HY/2012/08	2017-08-22	ASR1	Sunny	15:05	1-hour TSP	360	ug/m3
TMCLKL	HY/2012/08	2017-08-22	ASR1	Rainy	16:07	1-hour TSP	331	ug/m3
TMCLKL	HY/2012/08	2017-08-22	ASR10	Sunny	13:29	1-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	2017-08-22	ASR10	Sunny	14:31	1-hour TSP	106	ug/m3
TMCLKL	HY/2012/08	2017-08-22	ASR10	Rainy	15:33	1-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2017-08-22	ASR5	Sunny	13:52	1-hour TSP	195	ug/m3
TMCLKL	HY/2012/08	2017-08-22	ASR5	Sunny	14:54	1-hour TSP	269	ug/m3
TMCLKL	HY/2012/08	2017-08-22	ASR5	Rainy	15:56	1-hour TSP	278	ug/m3
TMCLKL	HY/2012/08	2017-08-22	ASR6	Sunny	13:40	1-hour TSP	181	ug/m3
TMCLKL	HY/2012/08	2017-08-22	ASR6	Sunny	14:42	1-hour TSP	247	ug/m3
TMCLKL	HY/2012/08	2017-08-22	ASR6	Rainy	15:44	1-hour TSP	290	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-08-25	AQMS1	Sunny	09:39	1-hour TSP	64	ug/m3
TMCLKL	HY/2012/08	2017-08-25	AQMS1	Sunny	10:41	1-hour TSP	65	ug/m3
TMCLKL	HY/2012/08	2017-08-25	AQMS1	Sunny	11:43	1-hour TSP	50	ug/m3
TMCLKL	HY/2012/08	2017-08-25	ASR1	Sunny	09:28	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2017-08-25	ASR1	Sunny	10:30	1-hour TSP	121	ug/m3
TMCLKL	HY/2012/08	2017-08-25	ASR1	Sunny	11:32	1-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2017-08-25	ASR10	Sunny	08:54	1-hour TSP	34	ug/m3
TMCLKL	HY/2012/08	2017-08-25	ASR10	Sunny	09:56	1-hour TSP	46	ug/m3
TMCLKL	HY/2012/08	2017-08-25	ASR10	Sunny	10:58	1-hour TSP	37	ug/m3
TMCLKL	HY/2012/08	2017-08-25	ASR5	Sunny	09:16	1-hour TSP	27	ug/m3
TMCLKL	HY/2012/08	2017-08-25	ASR5	Sunny	10:18	1-hour TSP	65	ug/m3
TMCLKL	HY/2012/08	2017-08-25	ASR5	Sunny	11:20	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2017-08-25	ASR6	Sunny	09:05	1-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2017-08-25	ASR6	Sunny	10:07	1-hour TSP	45	ug/m3
TMCLKL	HY/2012/08	2017-08-25	ASR6	Sunny	11:09	1-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2017-08-28	AQMS1	Cloudy	14:22	1-hour TSP	38	ug/m3
TMCLKL	HY/2012/08	2017-08-28	AQMS1	Cloudy	15:24	1-hour TSP	55	ug/m3
TMCLKL	HY/2012/08	2017-08-28	AQMS1	Cloudy	16:26	1-hour TSP	33	ug/m3
TMCLKL	HY/2012/08	2017-08-28	ASR1	Cloudy	14:10	1-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2017-08-28	ASR1	Cloudy	15:12	1-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2017-08-28	ASR1	Cloudy	16:14	1-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2017-08-28	ASR10	Cloudy	13:55	1-hour TSP	23	ug/m3
TMCLKL	HY/2012/08	2017-08-28	ASR10	Cloudy	14:37	1-hour TSP	26	ug/m3
TMCLKL	HY/2012/08	2017-08-28	ASR10	Cloudy	15:39	1-hour TSP	42	ug/m3
TMCLKL	HY/2012/08	2017-08-28	ASR5	Cloudy	13:58	1-hour TSP	98	ug/m3
TMCLKL	HY/2012/08	2017-08-28	ASR5	Cloudy	15:00	1-hour TSP	60	ug/m3
TMCLKL	HY/2012/08	2017-08-28	ASR5	Cloudy	16:02	1-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2017-08-28	ASR6	Cloudy	13:47	1-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	2017-08-28	ASR6	Cloudy	14:49	1-hour TSP	30	ug/m3
TMCLKL	HY/2012/08	2017-08-28	ASR6	Cloudy	15:51	1-hour TSP	73	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-08-31	AQMS1	Sunny	13:39	1-hour TSP	106	ug/m3
TMCLKL	HY/2012/08	2017-08-31	AQMS1	Sunny	14:41	1-hour TSP	174	ug/m3
TMCLKL	HY/2012/08	2017-08-31	AQMS1	Sunny	15:43	1-hour TSP	188	ug/m3
TMCLKL	HY/2012/08	2017-08-31	ASR1	Sunny	13:28	1-hour TSP	305	ug/m3
TMCLKL	HY/2012/08	2017-08-31	ASR1	Sunny	14:30	1-hour TSP	197	ug/m3
TMCLKL	HY/2012/08	2017-08-31	ASR1	Sunny	15:32	1-hour TSP	224	ug/m3
TMCLKL	HY/2012/08	2017-08-31	ASR10	Sunny	12:54	1-hour TSP	107	ug/m3
TMCLKL	HY/2012/08	2017-08-31	ASR10	Sunny	13:56	1-hour TSP	164	ug/m3
TMCLKL	HY/2012/08	2017-08-31	ASR10	Sunny	14:58	1-hour TSP	156	ug/m3
TMCLKL	HY/2012/08	2017-08-31	ASR5	Sunny	13:17	1-hour TSP	301	ug/m3
TMCLKL	HY/2012/08	2017-08-31	ASR5	Sunny	14:19	1-hour TSP	335	ug/m3
TMCLKL	HY/2012/08	2017-08-31	ASR5	Sunny	15:21	1-hour TSP	177	ug/m3
TMCLKL	HY/2012/08	2017-08-31	ASR6	Sunny	13:05	1-hour TSP	211	ug/m3
TMCLKL	HY/2012/08	2017-08-31	ASR6	Sunny	14:07	1-hour TSP	255	ug/m3
TMCLKL	HY/2012/08	2017-08-31	ASR6	Sunny	15:09	1-hour TSP	264	ug/m3
TMCLKL	HY/2012/08	2017-08-01	AQMS1	Sunny	17:09	24-hour TSP	42	ug/m3
TMCLKL	HY/2012/08	2017-08-01	ASR1	Sunny	16:57	24-hour TSP	82	ug/m3
TMCLKL	HY/2012/08	2017-08-01	ASR10	Sunny	16:24	24-hour TSP	26	ug/m3
TMCLKL	HY/2012/08	2017-08-01	ASR5	Sunny	16:47	24-hour TSP	32	ug/m3
TMCLKL	HY/2012/08	2017-08-01	ASR6	Sunny	16:36	24-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2017-08-04	AQMS1	Cloudy	16:10	24-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	2017-08-04	ASR1	Cloudy	17:03	24-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2017-08-04	ASR10	Cloudy	16:24	24-hour TSP	36	ug/m3
TMCLKL	HY/2012/08	2017-08-04	ASR5	Cloudy	16:50	24-hour TSP	78	ug/m3
TMCLKL	HY/2012/08	2017-08-04	ASR6	Cloudy	16:37	24-hour TSP	38	ug/m3
TMCLKL	HY/2012/08	2017-08-07	AQMS1	Sunny	16:55	24-hour TSP	36	ug/m3
TMCLKL	HY/2012/08	2017-08-07	ASR1	Sunny	16:42	24-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2017-08-07	ASR10	Sunny	16:08	24-hour TSP	40	ug/m3
TMCLKL	HY/2012/08	2017-08-07	ASR5	Sunny	16:30	24-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	2017-08-07	ASR6	Sunny	16:20	24-hour TSP	61	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-08-10	AQMS1	Sunny	17:33	24-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2017-08-10	ASR1	Sunny	17:21	24-hour TSP	57	ug/m3
TMCLKL	HY/2012/08	2017-08-10	ASR10	Sunny	16:47	24-hour TSP	42	ug/m3
TMCLKL	HY/2012/08	2017-08-10	ASR5	Sunny	17:10	24-hour TSP	97	ug/m3
TMCLKL	HY/2012/08	2017-08-10	ASR6	Sunny	16:58	24-hour TSP	89	ug/m3
TMCLKL	HY/2012/08	2017-08-13	AQMS1	Sunny	13:03	24-hour TSP	24	ug/m3
TMCLKL	HY/2012/08	2017-08-13	ASR1	Sunny	12:52	24-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2017-08-13	ASR10	Sunny	12:18	24-hour TSP	33	ug/m3
TMCLKL	HY/2012/08	2017-08-13	ASR5	Sunny	12:41	24-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2017-08-13	ASR6	Sunny	12:30	24-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2017-08-16	AQMS1	Sunny	17:30	24-hour TSP	32	ug/m3
TMCLKL	HY/2012/08	2017-08-16	ASR1	Sunny	17:18	24-hour TSP	55	ug/m3
TMCLKL	HY/2012/08	2017-08-16	ASR10	Sunny	16:44	24-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2017-08-16	ASR5	Sunny	17:07	24-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2017-08-16	ASR6	Sunny	16:55	24-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2017-08-19	AQMS1	Sunny	13:09	24-hour TSP	35	ug/m3
TMCLKL	HY/2012/08	2017-08-19	ASR1	Sunny	12:58	24-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	2017-08-19	ASR10	Sunny	12:23	24-hour TSP	26	ug/m3
TMCLKL	HY/2012/08	2017-08-19	ASR5	Sunny	12:46	24-hour TSP	51	ug/m3
TMCLKL	HY/2012/08	2017-08-19	ASR6	Sunny	12:35	24-hour TSP	49	ug/m3
TMCLKL	HY/2012/08	2017-08-22	AQMS1	Rainy		24-hour TSP		ug/m3
TMCLKL	HY/2012/08	2017-08-22	ASR1	Rainy		24-hour TSP		ug/m3
TMCLKL	HY/2012/08	2017-08-22	ASR10	Rainy		24-hour TSP		ug/m3
TMCLKL	HY/2012/08	2017-08-22	ASR5	Rainy		24-hour TSP		ug/m3
TMCLKL	HY/2012/08	2017-08-22	ASR6	Rainy		24-hour TSP		ug/m3
TMCLKL	HY/2012/08	2017-08-25	AQMS1	Sunny	12:45	24-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	2017-08-25	ASR1	Sunny	12:34	24-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2017-08-25	ASR10	Sunny	12:00	24-hour TSP	46	ug/m3
TMCLKL	HY/2012/08	2017-08-25	ASR5	Sunny	12:22	24-hour TSP	30	ug/m3
TMCLKL	HY/2012/08	2017-08-25	ASR6	Sunny	12:11	24-hour TSP	51	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-08-28	AQMS1	Cloudy	17:28	24-hour TSP	33	ug/m3
TMCLKL	HY/2012/08	2017-08-28	ASR1	Cloudy	17:16	24-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2017-08-28	ASR10	Cloudy	16::41	24-hour TSP	34	ug/m3
TMCLKL	HY/2012/08	2017-08-28	ASR5	Cloudy	17:04	24-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2017-08-28	ASR6	Cloudy	16:53	24-hour TSP	51	ug/m3
TMCLKL	HY/2012/08	2017-08-31	AQMS1	Sunny	16:45	24-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2017-08-31	ASR1	Sunny	16:34	24-hour TSP	155	ug/m3
TMCLKL	HY/2012/08	2017-08-31	ASR10	Sunny	16:00	24-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2017-08-31	ASR5	Sunny	16:23	24-hour TSP	163	ug/m3
TMCLKL	HY/2012/08	2017-08-31	ASR6	Sunny	16:11	24-hour TSP	111	ug/m3

Appendix H

Meteorological Data

Meteorological Data for Impact Monitoring in the reporting period						
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)			
17/08/03	0:00	1.8	94			
17/08/03	1:00	1.8	92			
17/08/03	2:00	3.1	85			
17/08/03	3:00	3.1	88			
17/08/03	4:00	3.1	86			
17/08/03	5:00	3.6	91			
17/08/03	6:00	2.2	99			
17/08/03	7:00	1.8	81			
17/08/03	8:00	0.9	315			
17/08/03	9:00	1.3	92			
17/08/03	10:00	1.3	100			
17/08/03	11:00	0.9	94			
17/08/03	12:00	2.7	88			
17/08/03	13:00	2.2	95			
17/08/03	14:00	1.8	91			
17/08/03	15:00	2.2	87			
17/08/03	16:00	2.2	86			
17/08/03	17:00	1.3	56			
17/08/03	18:00	1.3	96			
17/08/03	19:00	1.8	88			
17/08/03	20:00	0.4	62			
17/08/03	21:00	0.9	58			
17/08/03	22:00	0.4	70			
17/08/03	23:00	0.4	320			
17/08/04	0:00	1.3	88			
17/08/04	1:00	1.8	96			
17/08/04	2:00	2.2	93			
17/08/04	3:00	2.2	115			
17/08/04	4:00	2.7	94			
17/08/04	5:00	2.2	97			
17/08/04	6:00	1.3	113			
17/08/04	7:00	1.3	128			
17/08/04	8:00	0.9	135			
17/08/04	9:00	0.9	131			
17/08/04	10:00	1.3	96			
17/08/04	11:00	1.8	101			
17/08/04	12:00	0.9	84			
17/08/04	13:00	0.9	99			
17/08/04	14:00	1.3	65			
17/08/04	15:00	1.8	72			
17/08/04	16:00	1.8	77			
17/08/04	17:00	1.8	69			
17/08/04	18:00	1.8	89			
17/08/04	19:00	0.9	96			
17/08/04	20:00	0.9	84			
17/08/04	21:00	0.4	62			
17/08/04	22:00	0	-			
17/08/04	23:00	0.4	61			
17/08/06	0:00	1.8	203			
17/08/06	1:00	2.7	198			
17/08/06	2:00	2.7	207			
17/08/06	3:00	1.3	213			
17/08/06	4:00	1.8	204			
17/08/06	5:00	3.1	215			
17/08/06	6:00	2.7	209			

Meteorological Data for Impact Monitoring in the reporting period						
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)			
17/08/06	7:00	1.3	271			
17/08/06	8:00	0.4	289			
17/08/06	9:00	0.4	274			
17/08/06	10:00	0.4	268			
17/08/06	11:00	0	-			
17/08/06	12:00	0.4	211			
17/08/06	13:00	0	-			
17/08/06	14:00	0	-			
17/08/06	15:00	0.4	321			
17/08/06	16:00	0.4	319			
17/08/06	17:00	1.3	204			
17/08/06	18:00	0.4	264			
17/08/06	19:00	0.4	256			
17/08/06	20:00	0	-			
17/08/06	21:00	1.3	209			
17/08/06	22:00	0.9	226			
17/08/06	23:00	1.3	230			
17/08/07	0:00	1.8	231			
17/08/07	1:00	2.7	229			
17/08/07	2:00	2.7	231			
17/08/07	3:00	2.7	225			
17/08/07	4:00	2.2	232			
17/08/07	5:00	2.2	230			
17/08/07	6:00	2.2	235			
17/08/07	7:00	2.2	226			
17/08/07	8:00	2.2	229			
17/08/07	9:00	1.8	234			
17/08/07	10:00	1.3	231			
17/08/07	11:00	0.9	208			
17/08/07	12:00	0.9	63			
17/08/07	13:00	0.9	349			
17/08/07	14:00	0.4	351			
17/08/07	15:00	0.4	350			
17/08/07	16:00	0.4	348			
17/08/07	17:00	0				
17/08/07	18:00	1.3	225			
17/08/07	19:00	2.2	203			
17/08/07	20:00	3.1	203			
17/08/07	20:00	1.8	209			
17/08/07	21:00	1.8	214			
17/08/07	22:00	1.8	208			
17/08/09	0:00	1.8	226			
17/08/09	1:00	2.2	226			
17/08/09	2:00	2.2	220			
17/08/09	3:00	1.8	216			
17/08/09	4:00	2.2	210			
17/08/09	4:00 5:00	1.3	203			
17/08/09	6:00	0.9	276			
17/08/09	7:00	2.7	213			
	7:00 8:00	4.5	213			
17/08/09						
17/08/09	9:00	4	215			
17/08/09	10:00	3.1	210			
17/08/09	11:00	2.7	230			
17/08/09	12:00	2.7	207			
17/08/09	13:00	2.2	228			

	Meteor	ological Data for Impact Monitoring in	n the reporting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
17/08/09	14:00	2.7	199
17/08/09	15:00	2.2	215
17/08/09	16:00	2.2	208
17/08/09	17:00	2.2	213
17/08/09	18:00	2.2	204
17/08/09	19:00	2.7	216
17/08/09	20:00	1.3	225
17/08/09	21:00	1.3	216
17/08/09	22:00	0.4	258
17/08/09	23:00	0.4	269
17/08/10	0:00	0.4	204
17/08/10	1:00	1.8	213
17/08/10	2:00	2.7	213
17/08/10	3:00	1.3	235
17/08/10	4:00	1.3	230
17/08/10	5:00	0.9	241
17/08/10	6:00	2.7	236
17/08/10	7:00	3.1	235
17/08/10	8:00	3.6	206
17/08/10	9:00	3.1	200
17/08/10	10:00	2.2	203
17/08/10	11:00	1.8	207
17/08/10	12:00	1.3	225
17/08/10	13:00	1.8	227
17/08/10	14:00	1.8	230
17/08/10	15:00	1.3	196
17/08/10	16:00	1.3	205
17/08/10	17:00	0	203
17/08/10	18:00	0.4	295
17/08/10	19:00	0	273
17/08/10	20:00	1.3	205
17/08/10	21:00	0.9	198
17/08/10	22:00	0.9	198
17/08/10	23:00	0.4	168
17/08/10	0:00	2.7	222
17/08/12	1:00	2.7	213
		2.2	
17/08/12 17/08/12	2:00 3:00	2.2	204 239
17/08/12	4:00	1.8	264
17/08/12	5:00 6:00	1.8 2.2	231 201
17/08/12			
17/08/12 17/08/12	7:00 8:00	1.3 1.8	206
17/08/12	9:00	1.3	1/1 182
17/08/12	10:00	1.3	182
	11:00	0.9	163
17/08/12		0.9	
17/08/12	12:00	1.3	159
17/08/12	13:00		
17/08/12	14:00	2.2	125
17/08/12	15:00	0.4	111
17/08/12	16:00	0.4	106
17/08/12	17:00	0.9	162
17/08/12	18:00	0.4	159
17/08/12	19:00	0	-
17/08/12	20:00	1.3	228

Meteorological Data for Impact Monitoring in the reporting period						
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)			
17/08/12	21:00	0.4	235			
17/08/12	22:00	1.3	240			
17/08/12	23:00	0	-			
17/08/13	0:00	1.3	231			
17/08/13	1:00	1.3	233			
17/08/13	2:00	1.3	228			
17/08/13	3:00	1.3	225			
17/08/13	4:00	1.8	260			
17/08/13	5:00	1.8	229			
17/08/13	6:00	2.2	233			
17/08/13	7:00	1.8	264			
17/08/13	8:00	1.8	203			
17/08/13	9:00	2.7	213			
17/08/13	10:00	1.8	226			
17/08/13	11:00	2.2	230			
17/08/13	12:00	1.8	210			
17/08/13	13:00	1.3	220			
17/08/13	14:00	0.4	166			
17/08/13	15:00	0	-			
17/08/13	16:00	0	-			
17/08/13	17:00	0.4	165			
17/08/13	18:00	0	-			
17/08/13	19:00	0.4	132			
17/08/13	20:00	0.9	221			
17/08/13	21:00	1.3	230			
17/08/13	22:00	0.9	195			
17/08/13	23:00	0.9	227			
17/08/15	0:00	1.3	229			
17/08/15	1:00	1.8	231			
17/08/15	2:00	1.8	221			
17/08/15	3:00	2.2	220			
17/08/15	4:00	1.8	258			
17/08/15	5:00	1.3	263			
17/08/15	6:00	1.8	262			
17/08/15	7:00	2.2	225			
17/08/15	8:00	1.8	194			
17/08/15	9:00	1.8	221			
17/08/15	10:00	1.3	181			
17/08/15	11:00	0.9	174			
17/08/15	12:00	0.4	116			
17/08/15	13:00	0.9	109			
17/08/15	14:00	1.3	132			
17/08/15	15:00	0.4	352			
17/08/15	16:00	0.4	351			
17/08/15	17:00	0.4	349			
17/08/15	18:00	0.4	312			
17/08/15	19:00	0.4	199			
17/08/15	20:00	0	-			
17/08/15	20:00	0				
17/08/15	22:00	0				
17/08/15	22:00	0.4	321			
17/08/15	0:00	0.9	<u> </u>			
	1:00	1.3	223			
17/08/16						
17/08/16	2:00	1.3	354			
17/08/16	3:00	1.3	199			

Meteorological Data for Impact Monitoring in the reporting period									
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)						
17/08/16	4:00	2.2	202						
17/08/16	5:00	0.9	226						
17/08/16	6:00	0.9	229						
17/08/16	7:00	1.8	199						
17/08/16	8:00	1.3	266						
17/08/16	9:00	1.3	220						
17/08/16	10:00	1.3	231						
17/08/16	11:00	1.8	229						
17/08/16	12:00	0.9	225						
17/08/16	13:00	0.4	111						
17/08/16	14:00	1.3	95						
17/08/16	15:00	1.8	92						
17/08/16	16:00	1.8	88						
	17:00	1.3	84						
17/08/16									
17/08/16	18:00	1.3	87						
17/08/16	19:00	0.9	93						
17/08/16	20:00	0.4	55						
17/08/16	21:00	0.4	354						
17/08/16	22:00	0.9	329						
17/08/16	23:00	0.4	355						
17/08/18	0:00	1.3	125						
17/08/18	1:00	1.3	131						
17/08/18	2:00	1.8	229						
17/08/18	3:00	2.7	230						
17/08/18	4:00	2.7	198						
17/08/18	5:00	2.7	215						
17/08/18	6:00	1.8	228						
17/08/18	7:00	1.3	115						
17/08/18	8:00	2.7	136						
17/08/18	9:00	2.2	105						
17/08/18	10:00	1.8	95						
17/08/18	11:00	1.8	88						
17/08/18	12:00	1.3	100						
17/08/18	13:00	1.3	63						
17/08/18	14:00	1.3	70						
17/08/18	15:00	1.3	93						
17/08/18	16:00	1.3	85						
17/08/18	17:00	0.9	62						
17/08/18	18:00	1.8	93						
17/08/18	19:00	1.3	94						
17/08/18	20:00 21:00	0.4	99						
17/08/18 17/08/18	21:00	0							
17/08/18	22:00	0	-						
17/08/18	0:00	0.9	67						
17/08/19	1:00	1.3	105						
17/08/19	2:00	1.3	100						
17/08/19	3:00	1.5	226						
17/08/19	4:00	1.8	223						
17/08/19	5:00	1.8	225						
17/08/19	6:00	0.9	229						
17/08/19	7:00	1.3	229						
17/08/19	8:00	0.9	227						
17/08/19	9:00	0.9	227						
17/08/19	10:00	0.9	319						
17/08/19	11:00	1.8	85						

Meteorological Data for Impact Monitoring in the reporting period									
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)						
17/08/19	12:00	0.4	88						
17/08/19	13:00	0.9	112						
17/08/19	14:00	1.8	62						
17/08/19	15:00	1.3	65						
17/08/19	16:00	1.3	74						
17/08/19	17:00	1.3	60						
17/08/19	18:00	0.9	61						
17/08/19	19:00	0	-						
17/08/19	20:00	0.4	4						
17/08/19	21:00	0	-						
17/08/19	22:00	0.9	309						
17/08/19	23:00	1.3	315						
17/08/21	0:00	2.2	24						
17/08/21	1:00	2.2	298						
17/08/21	2:00	2.2	275						
17/08/21	3:00	1.8	267						
17/08/21	4:00	1.3	274						
17/08/21	5:00	1.8	223						
17/08/21	6:00	1.8	271						
17/08/21	7:00	2.7	220						
17/08/21	8:00	1.8	220						
17/08/21	8:00 9:00	0.9	205						
17/08/21	10:00	1.8	303						
17/08/21	11:00	1.8	16						
17/08/21	12:00	0.9	320						
17/08/21	13:00	0.9	314						
17/08/21	14:00	0	-						
17/08/21	15:00	0.4	135						
17/08/21	16:00	0.4	132						
17/08/21	17:00	0	-						
17/08/21	18:00	0							
17/08/21	19:00	0							
17/08/21	20:00	0.4	288						
17/08/21	21:00	0	-						
17/08/21	22:00	0	-						
17/08/21	23:00	0.4	311						
17/08/22	0:00	1.8	277						
17/08/22	1:00	1.8	316						
17/08/22	2:00	1.8	265						
17/08/22	3:00	1.8	322						
17/08/22	4:00	1.8	275						
17/08/22	5:00	1.8	355						
17/08/22	6:00	1.8	223						
17/08/22	7:00	0.1	226						
17/08/22	8:00	0.1	94						
17/08/22	9:00	0.1	85						
17/08/22	10:00	0.1	69						
17/08/22	11:00	0.1	88						
17/08/22	12:00	0.1	123						
17/08/22	13:00	0.1	151						
17/08/22	14:00	0.1	312						
17/08/22	15:00	0.1	285						
17/08/22	16:00	0.1	269						
17/08/22	17:00	0.1	271						
17/08/22	18:00	0.1	220						
17/08/22	19:00	0.1	263						
17/08/22	20:00	0.1	254						

Meteorological Data for Impact Monitoring in the reporting period									
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)						
17/08/22	21:00	0.1	251						
17/08/22	22:00	0.1	229						
17/08/22	23:00	0.1	204						
17/08/24	0:00	0.1	213						
17/08/24	1:00	0.1	225						
17/08/24	2:00	0.1	261						
17/08/24	3:00	0.1	222						
17/08/24	4:00	0.1	219						
17/08/24	5:00	0.1	223						
17/08/24	6:00	0.1	201						
17/08/24	7:00	0.1	207						
17/08/24	8:00	0.1	213						
17/08/24	9:00	1.8	225						
17/08/24	10:00	3.6	106						
17/08/24	11:00	4	104						
17/08/24	12:00	2.7	94						
17/08/24	13:00	2.7	103						
17/08/24	14:00	1.8	85						
17/08/24	15:00	0.4	91						
17/08/24	16:00	0.4	88						
17/08/24	17:00	0.4							
17/08/24 17/08/24	17:00	0.4							
		0.4	94						
17/08/24	19:00								
17/08/24	20:00	0.9	85						
17/08/24	21:00	0.9	96						
17/08/24	22:00	0	-						
17/08/24	23:00	0.9	93						
17/08/25	0:00	1.3	122						
17/08/25	1:00	0.9	116						
17/08/25	2:00	1.3	124						
17/08/25	3:00	2.2	104						
17/08/25	4:00	3.1	128						
17/08/25	5:00	0.9	96						
17/08/25	6:00	1.3	104						
17/08/25	7:00	1.3	88						
17/08/25	8:00	1.3	113						
17/08/25	9:00	1.8	94						
17/08/25	10:00	0.4	103						
17/08/25	11:00	0.4	109						
17/08/25	12:00	0	-						
17/08/25	13:00	0.4	348						
17/08/25	14:00	0							
17/08/25	15:00	0							
17/08/25	16:00	0							
17/08/25	17:00	0							
17/08/25	18:00	0							
17/08/25	19:00	0							
17/08/25	20:00	0.4	95						
17/08/25	21:00	0	-						
17/08/25	22:00	1.3	12						
17/08/25	23:00	1.8	16						
17/08/27	0:00	14.3	110						
17/08/27	1:00	13	116						
17/08/27	2:00	10.7	109						
17/08/27	3:00	10.3	115						
17/08/27	4:00	8.9	111						
17/08/27	5:00	6.7	120						

Meteorological Data for Impact Monitoring in the reporting period									
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)						
17/08/27	6:00	6.3	121						
17/08/27	7:00	6.7	134						
17/08/27	8:00	4.9	128						
17/08/27	9:00	6.3	136						
17/08/27	10:00	5.8	140						
17/08/27	11:00	6.3	135						
17/08/27	12:00	6.3	137						
17/08/27	13:00	4.9	131						
17/08/27	14:00	6.3	120						
17/08/27	15:00	6.3	128						
17/08/27	16:00	6.3	119						
17/08/27	17:00	6.3	121						
17/08/27	18:00	4.9	115						
17/08/27	19:00	5.4	103						
17/08/27	20:00	4.5	99						
17/08/27	21:00	4	108						
17/08/27	22:00	2.7	117						
17/08/27	23:00	2.2	95						
17/08/28	0:00	1.3	171						
17/08/28	1:00	0							
17/08/28	2:00	1.3	93						
17/08/28	3:00	1.3	98						
17/08/28	4:00	0.4	85						
17/08/28	5:00	1.3	92						
17/08/28	6:00	1.3	101						
17/08/28	7:00	1.5	84						
	8:00	2.2							
17/08/28		2.2	83						
17/08/28	9:00		86						
17/08/28	10:00	2.7 3.1	100						
17/08/28	11:00		81						
17/08/28	12:00	2.7	92						
17/08/28	13:00	2.2	96						
17/08/28	14:00	0.9	95						
17/08/28	15:00	0.9	88						
17/08/28	16:00	0.9	102						
17/08/28	17:00	0.9	94						
17/08/28	18:00	0.4	56						
17/08/28	19:00	0	-						
17/08/28	20:00	0							
17/08/28	21:00	0	-						
17/08/28	22:00	0							
17/08/28	23:00	0	-						
17/08/30	0:00	0.4	168						
17/08/30	1:00	1.3	265						
17/08/30	2:00	1.3	264						
17/08/30	3:00	1.8	226						
17/08/30	4:00	1.3	264						
17/08/30	5:00	1.3	263						
17/08/30	6:00	1.8	228						
17/08/30	7:00	2.2	88						
17/08/30	8:00	3.1	93						
17/08/30	9:00	1.8	92						
17/08/30	10:00	1.8	87						
17/08/30	11:00	1.8	86						
17/08/30	12:00	1.8	91						
17/08/30	13:00	2.2	98						
17/08/30	14:00	1.8	65						

Meteorological Data for Impact Monitoring in the reporting period								
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)					
17/08/30	15:00	0.9	57					
17/08/30	16:00	0.9	63					
17/08/30	17:00	1.3	55					
17/08/30	18:00	0.4	58					
17/08/30	19:00	0	-					
17/08/30	20:00	0	-					
17/08/30	21:00	0	-					
17/08/30	22:00	0	-					
17/08/30	23:00	0	-					
17/08/31	0:00	0.4	122					
17/08/31	1:00	1.3	223					
17/08/31	2:00	1.3	275					
17/08/31	3:00	0.9	300					
17/08/31	4:00	0.9	275					
17/08/31	5:00	1.3	265					
17/08/31	6:00	1.3	226					
17/08/31	7:00	2.2	205					
17/08/31	8:00	1.3	203					
17/08/31	9:00	0.9	174					
17/08/31	10:00	2.2	51					
17/08/31	11:00	1.3	88					
17/08/31	12:00	0.9	91					
17/08/31	13:00	0.4	44					
17/08/31	14:00	0.4	3					
17/08/31	15:00	0.4	357					
17/08/31	16:00	0.4	359					
17/08/31	17:00	0.4	356					
17/08/31	18:00	0	-					
17/08/31	19:00	0.4	342					
17/08/31	20:00	0.4	352					
17/08/31	21:00	0.4	41					
17/08/31	22:00	0	-					
17/08/31	23:00	0	-					

Appendix I

Impact Dolphin Monitoring Survey

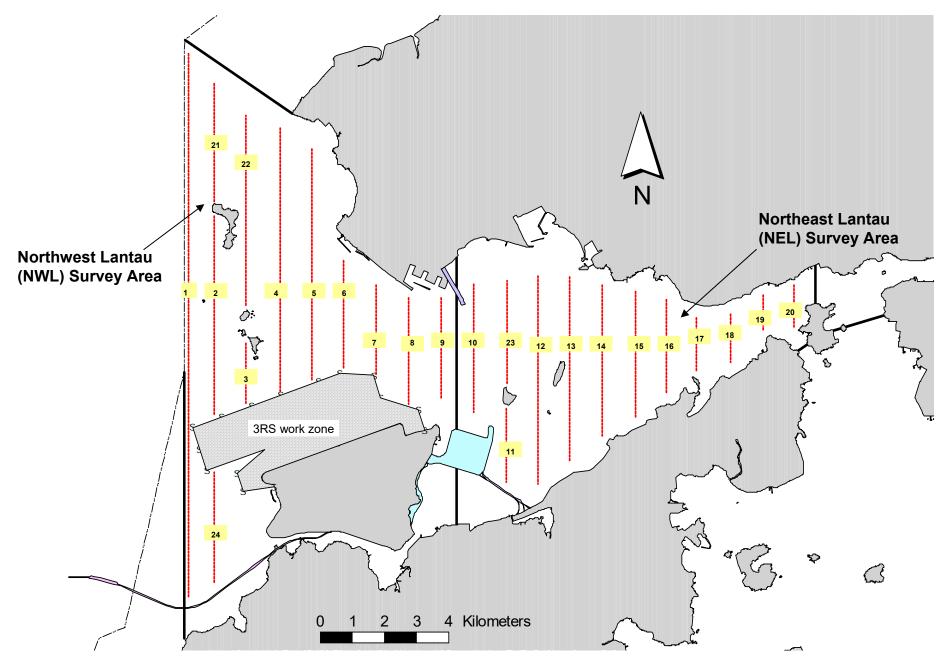


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

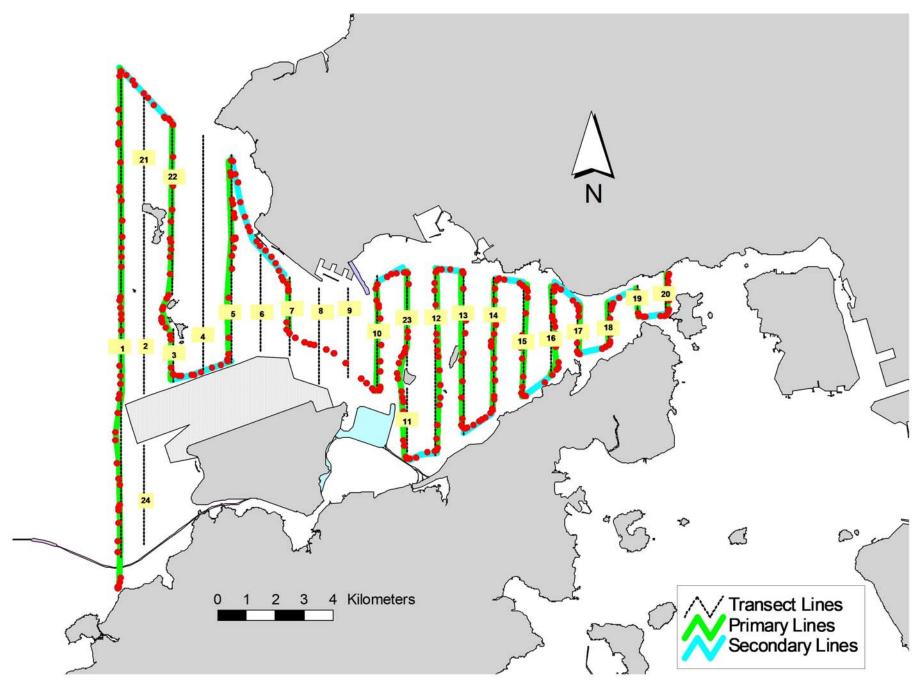


Figure 2. Survey Route on August 7th, 2017 (from HKLR03 project)

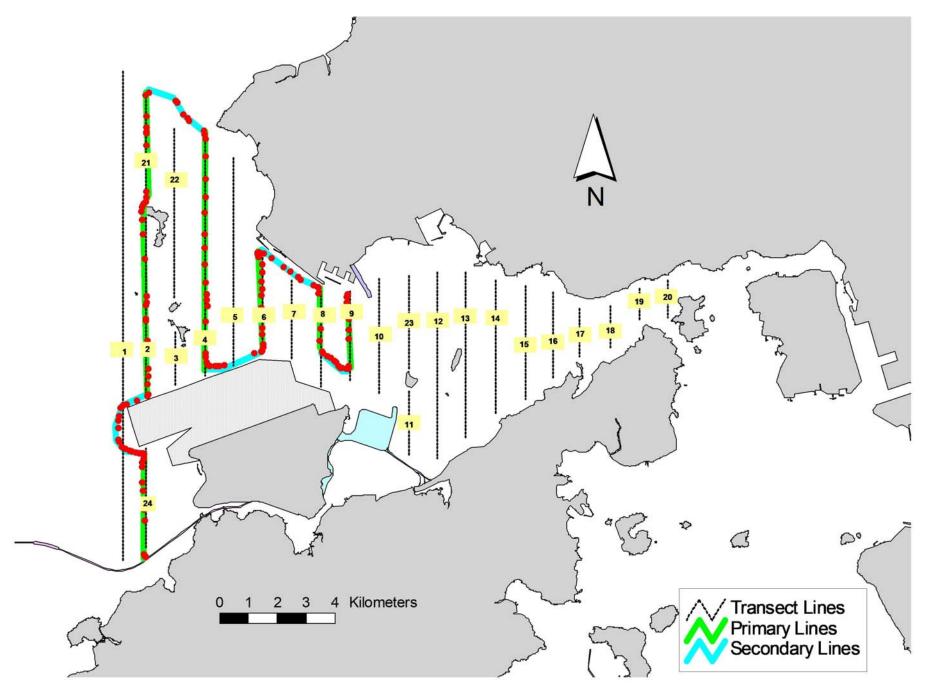


Figure 3. Survey Route on August 15th, 2017 (from HKLR03 project)

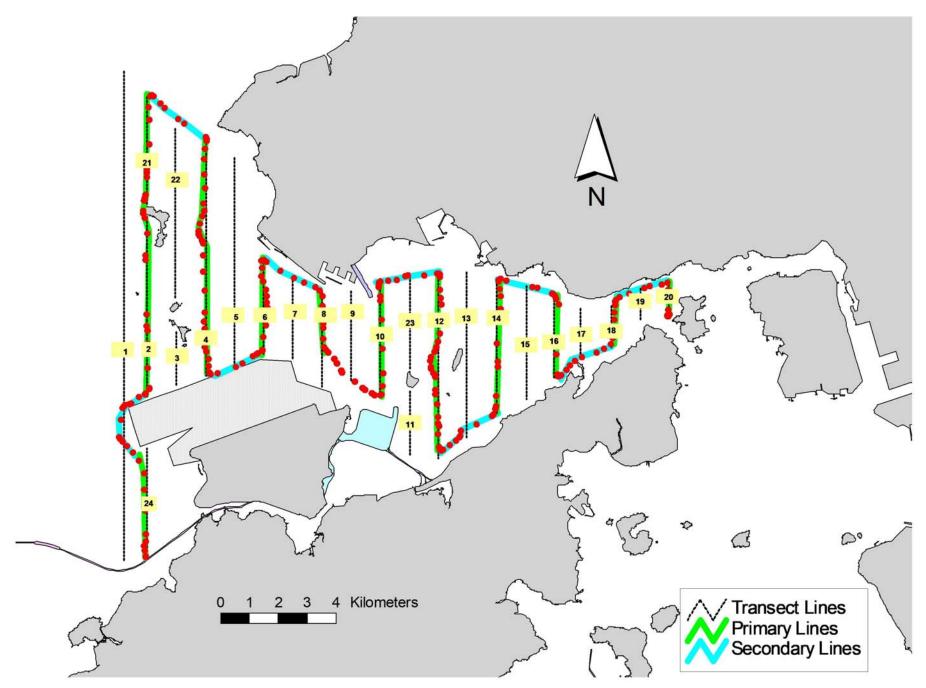


Figure 4. Survey Route on August 21st, 2017 (from HKLR03 project)

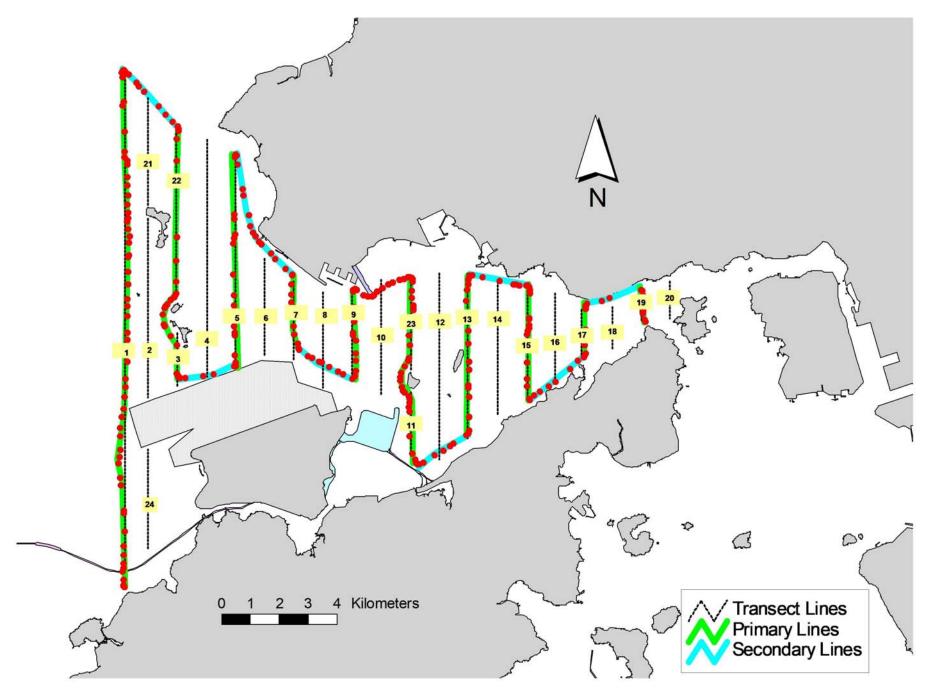


Figure 5. Survey Route on August 31st, 2017 (from HKLR03 project)

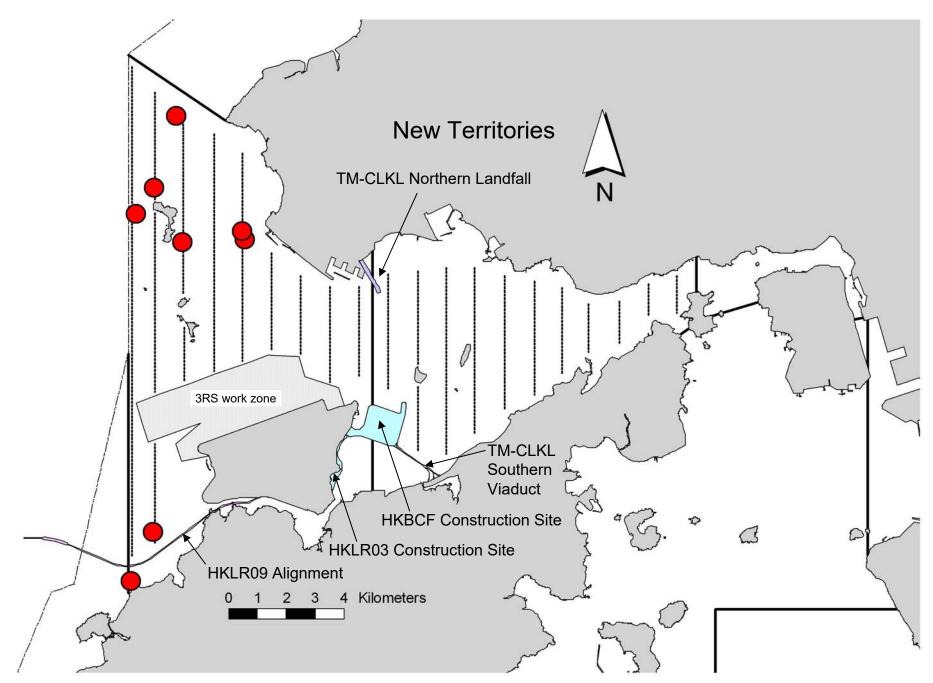


Figure 6. Distribution of Chinese White Dolphin Sightings during August 2017 HKLR03 Monitoring Surveys

Appendix I. HKLR03 Survey Effort Database (August 2017)

(Abbreviations: BEAU = Beaufort Sea State; P = Primary Line Effort; S = Secondary Line Effort)

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
7-Aug-17	NW LANTAU	2	20.96	SUMMER	STANDARD36826	HKLR	Р
7-Aug-17	NW LANTAU	3	11.21	SUMMER	STANDARD36826	HKLR	Р
7-Aug-17	NW LANTAU	2	2.10	SUMMER	STANDARD36826	HKLR	S
7-Aug-17	NW LANTAU	3	8.74	SUMMER	STANDARD36826	HKLR	S
7-Aug-17	NE LANTAU	2	30.03	SUMMER	STANDARD36826	HKLR	Р
7-Aug-17	NE LANTAU	3	3.99	SUMMER	STANDARD36826	HKLR	Р
7-Aug-17	NE LANTAU	2	12.29	SUMMER	STANDARD36826	HKLR	S
7-Aug-17	NE LANTAU	3	1.19	SUMMER	STANDARD36826	HKLR	S
15-Aug-17	NW LANTAU	2	0.92	SUMMER	STANDARD36826	HKLR	Р
15-Aug-17	NW LANTAU	3	27.46	SUMMER	STANDARD36826	HKLR	Р
15-Aug-17	NW LANTAU	3	9.12	SUMMER	STANDARD36826	HKLR	S
21-Aug-17	NW LANTAU	1	5.11	SUMMER	STANDARD36826	HKLR	Р
21-Aug-17	NW LANTAU	2	19.03	SUMMER	STANDARD36826	HKLR	Р
21-Aug-17	NW LANTAU	3	0.40	SUMMER	STANDARD36826	HKLR	Р
21-Aug-17	NW LANTAU	1	4.43	SUMMER	STANDARD36826	HKLR	S
21-Aug-17	NW LANTAU	2	6.75	SUMMER	STANDARD36826	HKLR	S
21-Aug-17	NE LANTAU	2	18.25	SUMMER	STANDARD36826	HKLR	Р
21-Aug-17	NE LANTAU	3	0.53	SUMMER	STANDARD36826	HKLR	Р
21-Aug-17	NE LANTAU	2	9.99	SUMMER	STANDARD36826	HKLR	S
21-Aug-17	NE LANTAU	3	0.51	SUMMER	STANDARD36826	HKLR	S
31-Aug-17	NW LANTAU	2	36.26	SUMMER	STANDARD36826	HKLR	Р
31-Aug-17	NW LANTAU	2	13.74	SUMMER	STANDARD36826	HKLR	S
31-Aug-17	NE LANTAU	2	16.93	SUMMER	STANDARD36826	HKLR	Р
31-Aug-17	NE LANTAU	2	9.87	SUMMER	STANDARD36826	HKLR	S

DATE	STG #	TIME	HRD SZ	AREA	BEAU	PSD	EFFORT	TYPE	NORTHING	EASTING	SEASON	BOAT ASSOC.	P/S
7-Aug-17	1	1011	1	NW LANTAU	2	63	ON	HKLR	814661	804608	SUMMER	NONE	Р
7-Aug-17	2	1143	3	NW LANTAU	2	146	ON	HKLR	829807	806174	SUMMER	NONE	S
7-Aug-17	3	1221	1	NW LANTAU	2	4	ON	HKLR	825698	806382	SUMMER	NONE	Р
7-Aug-17	4	1324	2	NW LANTAU	3	18	ON	HKLR	825794	808545	SUMMER	NONE	Р
21-Aug-17	1	1012	1	NW LANTAU	1	209	ON	HKLR	816265	805384	SUMMER	NONE	Р
21-Aug-17	2	1132	3	NW LANTAU	2	326	ON	HKLR	827461	805407	SUMMER	NONE	Р
31-Aug-17	1	1117	5	NW LANTAU	2	20	ON	HKLR	826621	804788	SUMMER	NONE	Р
31-Aug-17	2	1314	2	NW LANTAU	2	262	ON	HKLR	826049	808443	SUMMER	NONE	Р

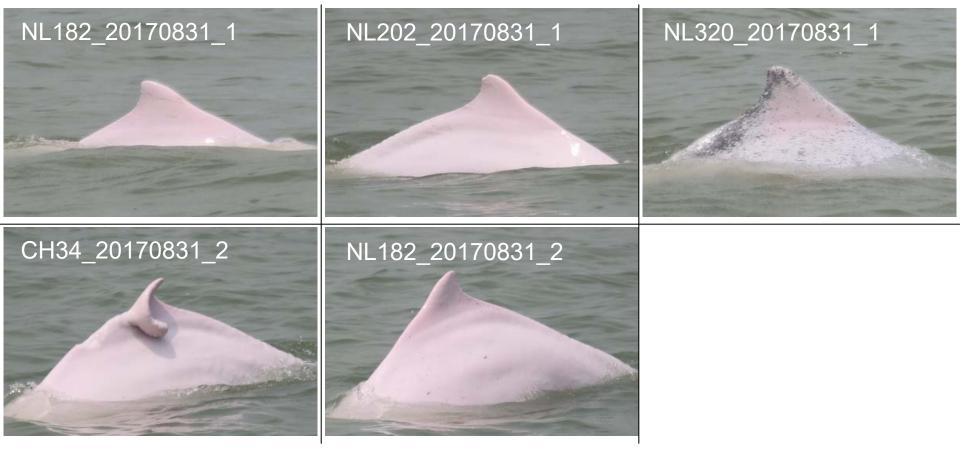
Appendix II. HKLR03 Chinese White Dolphin Sighting Database (August 2017) (Abberviations: STG# = Sighting Number; HRD SZ = Dolphin Herd Size; BEAU = Beaufort Sea State; PSD = Perpendicular Distance; BOAT ASSOC. = Fishing Boat Association P/S: Sighting Made on Primary/Secondary Lines

Appendix III. Individual dolphins identified during HKLR03 monitoring surveys in August 2017

ID#	DATE	STG#	AREA
CH34	31/08/17	1	NW LANTAU
	31/08/17	2	NW LANTAU
NL46	21/08/17	2	NW LANTAU
NL123	21/08/17	2	NW LANTAU
NL182	31/08/17	1	NW LANTAU
	31/08/17	2	NW LANTAU
NL202	31/08/17	1	NW LANTAU
NL224	07/08/17	3	NW LANTAU
NL236	07/08/17	2	NW LANTAU
NL293	07/08/17	1	NW LANTAU
NL320	31/08/17	1	NW LANTAU
WL05	21/08/17	2	NW LANTAU
WL167	07/08/17	2	NW LANTAU
WL243	21/08/17	1	NW LANTAU



Appendix IV. Photographs of Identified Individual Dolphins in August 2017 (HKLR03)



Appendix IV. (cont'd)

Appendix J

Event and Action Plan

Event and Action Plan for Impact Air Monitoring

			Action				
	ET (a)		IEC (a)		SOR (a)		Contractor(s)
Action Level Exceedance							
1. 2. 3. 4. 5. 6. 7.	Identify the source. Repeat measurement to confirm finding. If two consecutive measurements exceed Action Level, the exceedance is then confirmed. Inform the IEC and the SOR. Investigate the cause of exceedance and check Contractor's working procedures to determine possible mitigation to be implemented. If the exceedance is confirmed to be Project related after investigation, increase monitoring frequency to daily. Discuss with the IEC and the Contractor on remedial actions required. If exceedance continues, arrange meeting with the IEC and the SOR.	1. 2. 3. 4.	Check monitoring data submitted by the ET. Check the Contractor's working method. If the exceedance is confirmed to be Project related after investigation, discuss with the ET and the Contractor on possible remedial measures. Advise the SOR on the effectiveness of the proposed remedial measures. Supervise implementation of	1. 2. 3.	Confirm receipt of notification of failure in writing. Notify the Contractor. Ensure remedial measures properly implemented.	1. 2. 3. 4. 5.	Rectify any unacceptable practice Amend working methods if appropriate If the exceedance is confirmed to be Project related, submit proposals for remedial actions to IEC within 3 working days of notification Implement the agreed proposals Amend proposal if
8.	If exceedance stops, cease additional monitoring.	0.	remedial measures.			0.	appropriate

	Action										
	ET (a)		IEC (a)		SOR (a)		Contractor(s)				
Limit Level Exceedance											
	 Identify the source. Repeat measurement to confirm finding. If two consecutive measurements exceed Limit 	1. 2.	Check monitoring data submitted by the ET. Check Contractor's working	1.	Confirm receipt of notification of failure in writing.	1.	Take immediate action to avoid further exceedance.				
2	 Level, the exceedance is then confirmed. Inform the IEC, the SOR, the DEP and the Contractor. Investigate the cause of exceedance and check Contractor's working procedures to determine possible mitigation to be implemented. 	3.	method. If the exceedance is confirmed to be Project related after investigation, discuss with the ET and the Contractor on possible remedial measures.	2. 3.	Notify the Contractor. If the exceedance is confirmed to be Project related after investigation, in consultation with the IEC, agree with the Contractor on the remedial measures to be	2.	If the exceedance is confirmed to be Project related after investigation, submit proposals for remedia actions to IEC within 3				
Į	implemented.5. If the exceedance is confirmed to be Project related after investigation, increase monitoring frequency to daily.	4.	Advise the SOR on the effectiveness of the proposed remedial measures.	4.	implemented. Ensure remedial measures are properly implemented.	3.	working days of notification. Implement the agreed proposals.				
(Carry out analysis of the Contractor's working procedures to determine possible mitigation to be implemented. 	5.	Supervise implementation of remedial measures.	5.	If exceedance continues, consider what activity of the work is responsible and	4. 5.	Amend proposal if appropriate. Stop the relevant				
:	7. Arrange meeting with the IEC and the SOR to discuss the remedial actions to be taken.				instruct the Contractor to stop that activity of work		activity of works as determined by the SO				
٤	 Assess effectiveness of the Contractor's remedial actions and keep the IEC, the DEP and the SOR informed of the results. 				until the exceedance is abated.		until the exceedance is abated.				
9	 If exceedance stops, cease additional monitoring. 										

Note: (a) ET - Environmental Team; IEC - Independent Environmental Checker; SOR - Supervising Officer's Representative

Event/Action Plan for Impact Dolphin Monitoring

EVENT		ACTION		
	ET	IEC	SOR	Contractor
Action Level	 Repeat statistical data analysis to confirm findings; Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; Identify source(s) of impact; Inform the IEC, SOR and Contractor; Check monitoring data. Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 	 Check monitoring data submitted by ET and Contractor; Discuss monitoring results and finding with the ET and the Contractor. 	 Discuss monitoring with the IEC and any other measures proposed by the ET; If SOR is satisfied with the proposal of any other measures, SOR to signify the agreement in writing on the measures to be implemented. 	 Inform the SOR and confirm notification of the non-compliance in writing; Discuss with the ET and the IEC and propose measures to the IEC and the SOR; Implement the agreed measures.
Limit Level	 Repeat statistical data analysis to confirm findings; Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 	 Check monitoring data submitted by ET and Contractor; Discuss monitoring results and findings with the ET and the Contractor; Attend the meeting to discuss with ET, SOR and 	 Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures. If SOR is satisfied with the 	 Inform the SOR and confirm notification of the non-compliance in writing; Attend the meeting to discuss with ET, IEC and SOR the necessity of additional dolphin monitoring and any other

EVENT		ACTION		
	ET	IEC	SOR	Contractor
	 Identify source(s) of impact; Inform the IEC, SOR and Contractor of findings; Check monitoring data; Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. If ET proves that the source of impact is caused by any of the construction activity by the works contract, ET to arrange a meeting to discuss with IEC, SOR and Contractor the necessity of additional dolphin monitoring and/or any other potential mitigation measures (e.g., consider to modify the perimeter silt curtain or construction activity etc.) and submit to IEC a proposal of additional dolphin monitoring and/or mitigation measures where necessary. 	 Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures. 4. Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise SOR of the results and findings accordingly. 5. Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise SOR the results and findings accordingly. 	 proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, SOR to signify the agreement in writing on such proposals and any other mitigation measures. 3. Supervise the implementation of additional monitoring and/or any other mitigation measures. 	 potential mitigation measures. 3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary. 4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures.

Note: ET – Environmental Team, IEC – Independent Environmental Checker, SOR – Supervising Officer's Representative

Appendix K

Cumulative Statistics on Exceedances, Complaints, Notifications of Summons and Successful Prosecutions

Table K1Cumulative Statistics on Exceedances

Parameters	Level of Exceedance	Total No. recorded in this reporting month	Total No. recorded since project commencement
1-hr TSP	Action	1	34
	Limit	0	2
24-hr TSP	Action	0	5
	Limit	0	1
Water Quality	Action	0	6
	Limit	0	1
Impact Dolphin	Action	0	9
Monitoring	Limit	0	9

Table K2Cumulative Statistics on Complaints, Notifications of Summons and
Successful Prosecutions

Reporting Period	Cumulative Statistics					
_	Complaints	Notifications of Summons	Successful Prosecutions			
This Reporting Month (August 2017)	0	0	0			
Total No. received since project commencement	14	1	0			

Appendix L

Waste Flow Table



Name of Department:

HyD

Contract No. / Works Order No.: <u>HY/2012/08</u>

Monthly Summary Waste Flow Table for August 2017 month]

[to be submitted not later than the 15th day of each month following reporting

(All quantities shall be rounded off to 3 decimal places.)

	Monthly Break-down of Inert Construction & Demolition Materials (i.e. Public Fill Materials)							
Month	(a)=(b)+(c)+(d)+(e) Total Quantity Generated	(b) Hard Rock and Large Broken Concrete	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed of as Public Fill			
	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)			
Sub-total	1097.465	0.000	0.000	0.000	1097.465			
Jan-2017	60.781	0.000	0.000	0.000	60.781			
Feb-2017	17.367	0.000	0.000	0.000	17.367			
Mar-2017	7.508	0.000	0.000	0.000	7.508			
Apr-2017	15.603	0.000	0.000	0.000	15.603			
May-2017	12.358	0.000	0.000	0.000	12.358			
Jun-2017	0.194	0.000	0.000	0.000	0.194			
Half Year Sub-total	113.811	0.000	0.000	0.000	113.811			
Jul-2017	0.652	0.000	0.000	0.000	0.652			
Aug-2017	1.624	0.000	0.000	0.000	1.624			
Sep-2017								
Oct-2017								
Nov-2017								
Dec-2017								
Project Total Quantities	1213.552	0.000	0.000	0.000	1213.552			



	Actual Quantities of <u>Non-inert</u> Construction Waste Generated Monthly								
Month	nth (in '000kg)		Paper/ cardboard packaging (in '000kg)		Plastics (see Note 3) (in '000kg)		Chemical Waste (in '000kg)		Others, e.g. General Refuse disposed at Landfill (in '000ton)
	generated	recycled	generated	recycled	generated	recycled	generated	Disposed	generated
Sub-total	1.850	1.850	3.150	3.150	6.870	6.870	9.450	9.450	4.935
Jan-2017	0.000	0.000	0.000	0.000	0.000	0.000	3.400	3.400	0.257
Feb-2017	0.000	0.000	0.200	0.200	0.000	0.000	0.000	0.000	0.340
Mar-2017	0.000	0.000	0.000	0.000	0.000	0.000	6.100	6.100	0.286
Apr-2017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.237
May-2017	0.000	0.000	0.000	0.000	0.000	0.000	10.400	10.400	0.300
Jun-2017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317
Half Year Sub-total	0.000	0.000	0.200	0.200	0.000	0.000	19.900	19.900	1.737
Jul-2017	0.000	0.000	0.200	0.200	0.000	0.000	0.000	0.000	0.272
Aug-2017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.305
Sep-2017									
Oct-2017									
Nov-2017									
Dec-2017									
Project Total Quantities	1.850	1.850	3.550	3.550	6.870	6.870	29.350	29.350	7.249



Forecast of Total Quantities of Construction and Demolition Materials to be Generated from the Contract*					
Total Quantity Generated	enerated Hard Rock and Large Broken Concrete Reused in the Contract Reused in other Projects Disposed of as Public I				
(in '000 ton)	(in '000 ton) (in '000 ton)		(in '000 ton)	(in '000 ton)	
20.000	0.000	0.000	0.000	20.000	

Forecast of Total Quantities of Construction and Demolition Materials to be Generated from the Contract*					
Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	General Refuse disposed of at Landfill	
(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 ton)	
0.000	0.500	0.000	0.000	0.100	

Notes: (1) The performance targets are given in the **ER Appendix 8J Clause 14** and the EM & A Manual(s).

(2) The waste flow table shall also include C&D materials 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 total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m³. (ER Part 8 Clause 8.8.5 (d) (ii) refers).