

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

Twenty-eighth Monthly Environmental Monitoring & Audit (EM&A) Report

11 March 2016

Environmental Resources Management

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Ref.: HYDHZMBEEM00_0_3966L.16

14 March 2016

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. Edwin Ching / Andy Westmoreland

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 <u>Monthly EM&A Report for February 2016 (EP-354/2009/D)</u>

Reference is made to the Monthly Environmental Monitoring and Audit (EM&A) Report (Feb. 2016) (ET's ref.: "0212330_28th Monthly EM&A_20160311.doc" dated 11 Mar. 2016) certified by the ET Leader and provided to us via e-mail on 14 Mar. 2016.

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

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

Yours sincerely,

Hang For Blog

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

c.c. HyD – Mr. Stephen Chan (By Fax: 3188 6614) HyD – Mr. Matthew Fung (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, LP, CL, ENPO Site

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

Twenty-eighth Monthly Environmental Monitoring & Audit (EM&A) Report

Document Code: 0212330_28th Monthly EM&A_20160311.doc

Environmental Resources Management

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	EXECUTIVE SUMMARY	Ι
1	INTRODUCTION	1
1.1	BACKGROUND	1
1.2	Scope of Report	2
1.3	ORGANIZATION STRUCTURE	2
1.4	SUMMARY OF CONSTRUCTION WORKS	2
2	EM&A RESULTS	4
2.1	AIR QUALITY	4
2.2	WATER QUALITY MONITORING	6
2.3	DOLPHIN MONITORING	6
2.4	EM&A SITE INSPECTION	11
2.5	WASTE MANAGEMENT STATUS	11
2.6	ENVIRONMENTAL LICENSES AND PERMITS	12
2.7	IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES	14
2.8	SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMAN	NCE
	LIMIT	14
2.9	SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL	
	PROSECUTIONS	14
3	FUTURE KEY ISSUES	15
3.1	CONSTRUCTION ACTIVITIES FOR THE COMING MONTH	15
3.2	Key Issues for the Coming Month	15
3.3	MONITORING SCHEDULE FOR THE COMING MONTH	15
4	CONCLUSIONS AND RECOMMENDATIONS	16
4.1	Conclusions	16

APPENDIX A	PROJECT ORGANIZATION FOR ENVIRONMENTAL Works
Appendix B	CONSTRUCTION PROGRAMME
Appendix C	ENVIRONMENTAL MITIGATION AND Enhancement Measure Implementation Schedules (EMIS)
APPENDIX D	SUMMARY OF ACTION AND LIMIT LEVELS
Appendix E	COPIES OF CALIBRATION CERTIFICATE FOR AIR QUALITY MONITORING
APPENDIX F	EM&A MONITORING SCHEDULES
Appendix G	IMPACT AIR QUALITY MONITORING RESULTS
APPENDIX H	METEOROLOGICAL DATA
Appendix I	IMPACT DOLPHIN MONITORING SURVEY
Appendix J	EVENT AND ACTION PLAN
Appendix K	CUMULATIVE STATISTICS ON EXCEEDANCE, COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS
Appendix L	WASTE FLOW TABLE

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 Twenty-eighth Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 29 February 2016 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;
- Excavation of sub-sea tunnel Portion N-C;
- TBM Tunnel Works at Works Area Portion N-C; and
- Site preparation for Ventilation Shaft at Works Area Portion S-C.

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

24-hour TSP Monitoring	9 sessions
1-hour TSP Monitoring	9 sessions
Impact Dolphin Monitoring	2 sessions
Joint Environmental Site Inspection	4 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

No Action Level or Limit Level of air quality exceedances were recorded in the air quality monitoring of this reporting month.

Breaches of Action and Limit Levels for Dolphin Monitoring

Whilst one (1) Limit Level exceedance was observed for the quarterly dolphin monitoring data between December 2015 and February 2016, no unacceptable impact from the construction activities of the TM-CLKL Northern Connection Sub-sea Tunnel Section on Chinese White Dolphins was noticeable from general observations. Due to monthly variation in dolphin occurrence within the study area, it would be more appropriate to draw conclusion on whether any impacts on dolphins have been detected related to the construction activities of the TM-CLKL Northern Connection Sub-sea Tunnel Section 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.

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 March 2016 include the following:

Land-based Works

- Box Culvert Extension at Works Area Portion N-A;
- Construction of Cross Passage Tympanum Portion N-A;
- Excavation of sub-sea tunnel Portion N-C; and
- TBM Tunnel Works at Works Area Portion N-C.

Future Key Issues

As informed by the Contractor, Phase I Reclamation works for the Northern Landfall was substantially completed in December 2014, a proposal letter was sent to EPD on 21 May 2015 to seek approval for the temporary suspension of Water Quality Monitoring. Subsequently, a letter from EPD on 5 June 2015 stated that they have no strong objection to the temporary suspension of the water quality monitoring. Water Quality Monitoring was suspended from 6 June 2015 effectively and will resume when Phase II Reclamation commences in the fourth quarter of 2016 tentatively.

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of March 2016 are expected to be mainly associated with waste management issues. Although there are no dredging, reclamation and marine works in the next reporting month, other potential environmental impacts such as dust and marine ecology should also be addressed.

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.

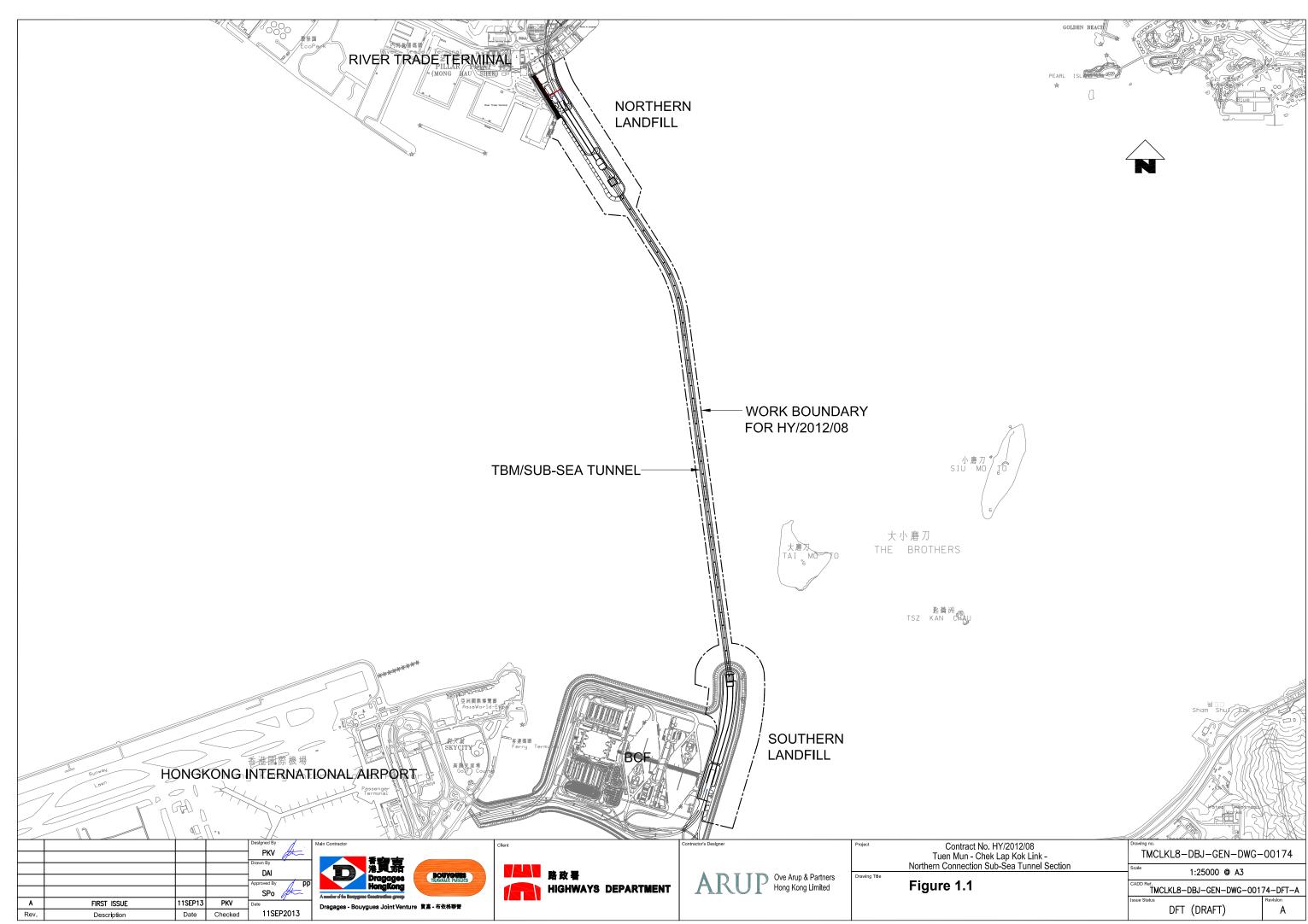
An Environmental Impact Assessment (EIA) of TM-CLKL (the Project) was prepared in accordance with the EIA Study Brief (No. ESB-175/2007) and the *Technical Memorandum of the Environmental Impact Assessment Process (EIAO-TM*). The EIA Report was submitted under the Environmental Impact Assessment Ordinance (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-354/2009A) 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.

1



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1.2 SCOPE OF REPORT

This is the Twenty-eighth 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 February 2016.

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 16/HZMB		Kenneth Lee	2762 4996	3188 6614
SOR (AECOM Asia Company	Chief Resident Engineer	Edwin Ching	2293 6388	2293 6300
Limited)	0	Andrew Westmoreland	2293 6360	2293 6300
ENPO / IEC (Ramboll Environ Hong	ENPO Leader	Y.H. Hui	3547 2133	3465 2899
Kong Ltd.)	IEC	Dr. F.C. Tsang	3547 2134	3465 2899
Contractor (Dragages - Bouygues Joint Venture)	Environmental Manager	C.F. Kwong	2293 7322	2293 7499
,,	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*.

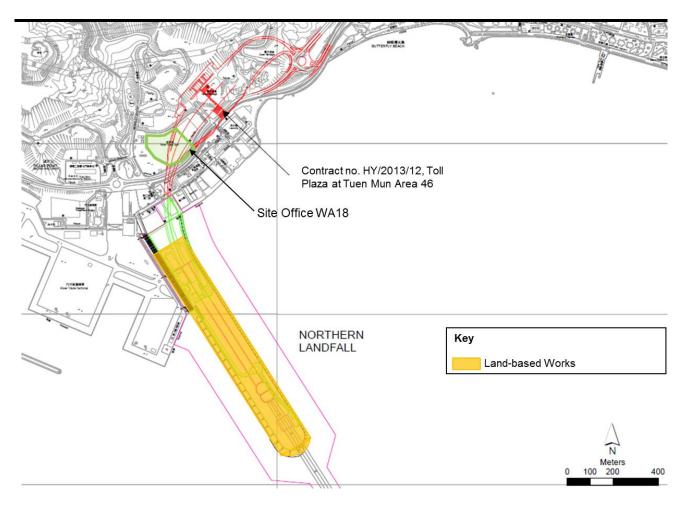
Table 1.2Summary of Construction Activities Undertaken during the Reporting Period

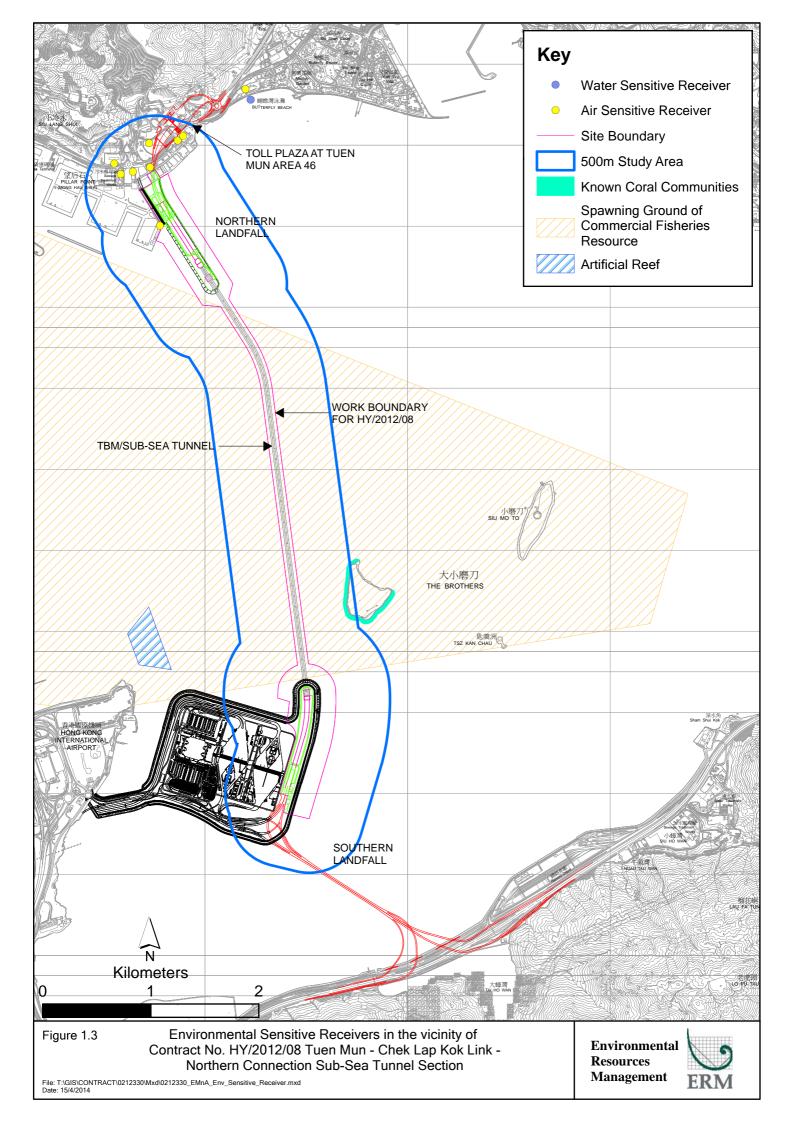
Construction Activities Undertaken

Land-based Works

- Box Culvert Extension at Works Area Portion N-A;
- Excavation of sub-sea tunnel Portion N-C;
- TBM Tunnel Works at Works Area Portion N-C; and
- Site preparation for Ventilation Shaft at Works Area Portion S-C.

Figure 1.2 Locations of Construction Activities – February 2016





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

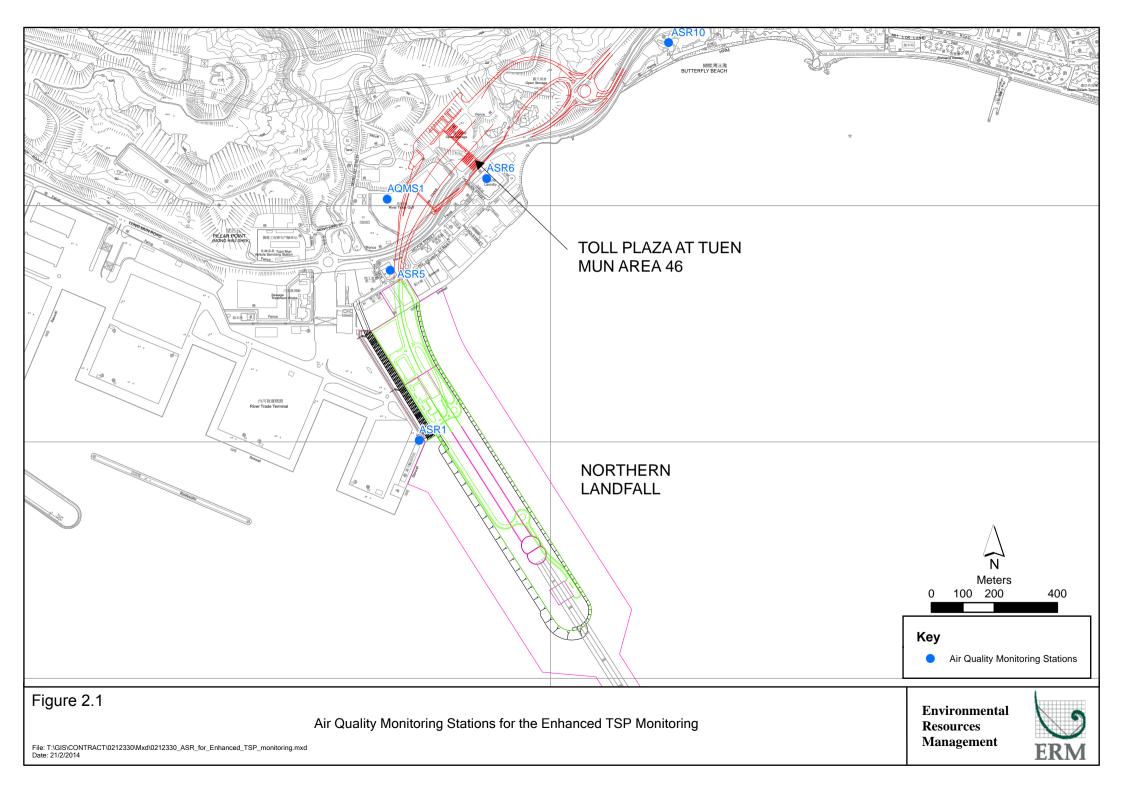
2.1.1 Monitoring Requirements and Equipment

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 2, 5, 11, 14, 17, 20, 23, 26 and 29 February 2016 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*.

Monitoring Station	Monitoring Dates	Location	Description	Parameters & Frequency
ASR1	2, 5, 11, 14, 17, 20, 23,	Tuen Mun	Office	TSP monitoring
	26, 29 February 2016	Fireboat Station		1-hour Total Suspended
				Particulates (1-hour TSP,
ASR5		Pillar Point Fire	Office	μ g/m ³), 3 times in every 6 day
		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 day
		Park	uses	• 24-hour Total Suspended
				Particulates (24-hour TSP,
				μ g/m ³), daily for 24-hour in
				every 3 days

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



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: Weather Wizard III (S/N: WE90911A30)
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 February 2016 is provided in *Appendix F*. No construction works was carried out from 8 February 2016 to 10 February 2016, thus Impact Air Quality Monitoring was postponed to 11 February 2016.

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	153	100 - 218	331	500
ASR5	143	58 - 201	340	500
AQMS1	113	63 - 231	335	500
ASR6	149	83 - 229	338	500
ASR10	102	73 - 202	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	93	64 - 115	213	260
ASR5	94	67 - 131	238	260
AQMS1	69	53 - 99	213	260
ASR6	85	65 - 113	238	260
ASR10	70	52 - 116	214	260

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

A total of 9 monitoring events were undertaken in which no Action or Limit 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

As informed by the Contractor, Phase I Reclamation works for the Northern Landfall was substantially completed in December 2014, a proposal letter was sent to EPD on 21 May 2015 to seek approval for the temporary suspension of Water Quality Monitoring. Subsequently, a letter from EPD on 5 June 2015 stated that they have no strong objection to the temporary suspension of the water quality monitoring. Water Quality Monitoring was suspended from 6 June 2015 effectively and will resume when Phase II Reclamation commences in the fourth quarter of 2016 tentatively.

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

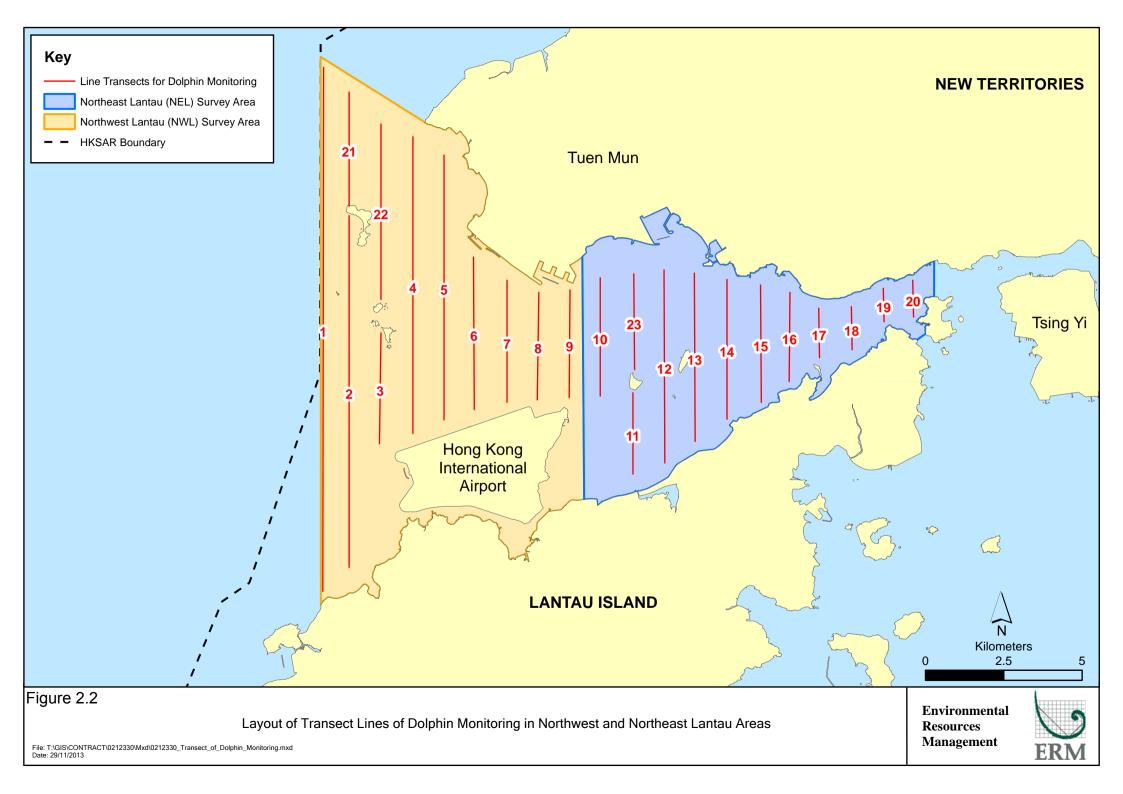
Table 2.5Dolphin Monitoring Equipment

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	805475	815913	14	Start Point	817537	820220
2	End Point	805477	826654	14	End Point	817537	824613
3	Start Point	806464	819435	15	Start Point	818568	820735
3	End Point	806464	822911	15	End Point	818568	824433
4	Start Point	807518	819771	16	Start Point	819532	821420
4	End Point	807518	829230	16	End Point	819532	824209
5	Start Point	808504	820220	17	Start Point	820451	822125
5	End Point	808504	828602	17	End Point	820451	823671
6	Start Point	809490	820466	18	Start Point	821504	822371
6	End Point	809490	825352	18	End Point	821504	823761
7	Start Point	810499	820880	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	820872	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				
12	End Point	815542	824882				

Table 2.6Impact Dolphin Monitoring Line Transect Co-ordinates

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 2, 3, 16 and 22 of February 2016. The dolphin monitoring schedule for the reporting month is shown in *Appendix F*.

2.3.7 Results & Observations

A total of 303.87 km of survey effort was collected, with 97.9% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) in February 2016. Among the two areas, 116.17 km and 187.70 km of survey effort were collected from NEL and NWL survey areas, respectively. The total survey effort conducted on primary and secondary lines were 219.76 km and 84.11 km respectively. The survey efforts are summarized in *Appendix I*.

A total of two groups of 11 Chinese White Dolphins sightings were recorded during the two sets of surveys in February 2016. Both dolphin sightings were made in NWL, while none was sighted in NEL. Both dolphin sightings were made on primary lines during on-effort search, and neither dolphin group was associated with any operating fishing vessel.

One of the dolphin sightings was made in the proximity of the TM-CLKL alignment near the Northern Landfall. 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 February 2016 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: February 2nd / 3rd	0.0	0.0
INEL	Set 2: February 16th / 22nd	0.0	0.0
NWL	Set 1: February 2nd / 3rd	1.4	6.8
INVVL	Set 2: February 16th / 22nd	1.4	8.7

Note: Dolphin Encounter Rates are deduced from the Two Sets of Surveys (Two Surveys in Each Set) in February 2016 in Northeast (NEL) and Northwest Lantau (NWL)

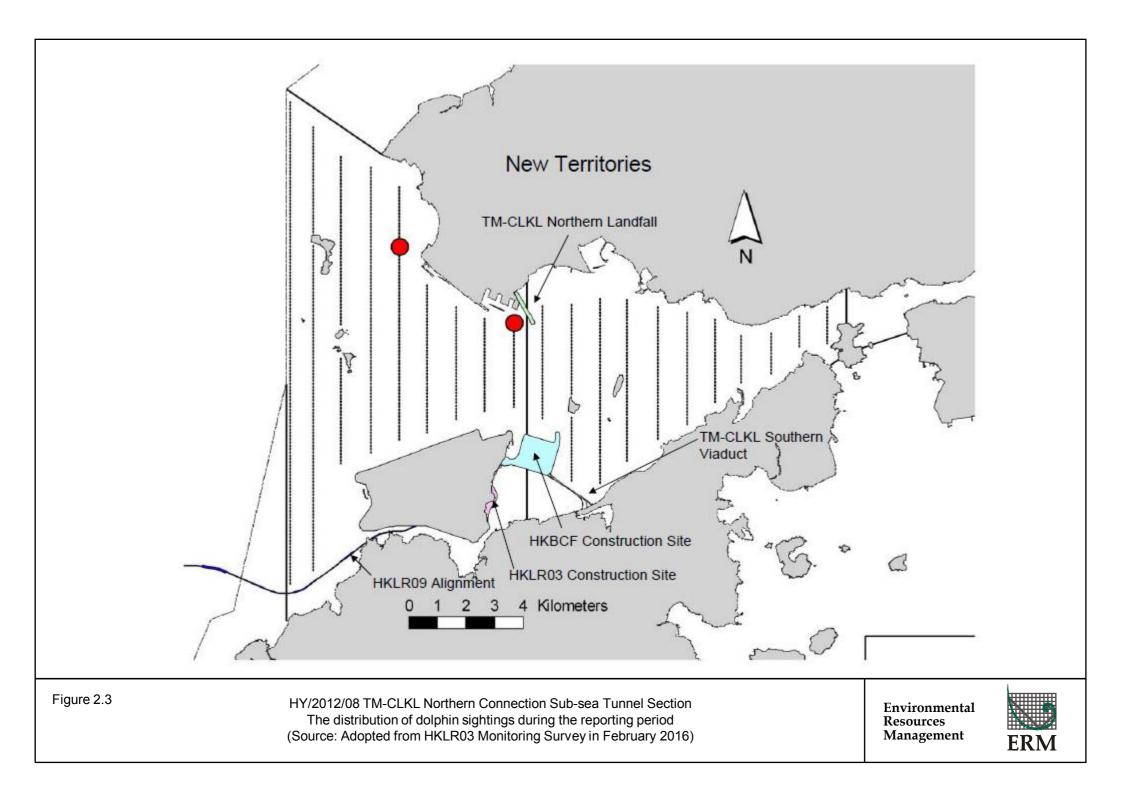


Table 2.8Monthly Average Encounter Rates

	(no. of on-ef) sightings per 10	rate (STG) fort dolphin 00 km of survey ort)	Encounter rate (ANI) (no. of dolphins from all on- effort sightings per 100 km o survey effort)				
	Primary Lines Only	Both Primary and Secondary Lines	Primary Lines Only	Both Primary and Secondary Lines			
Northeast Lantau	0.0	0.0	0.0	0.0			
Northwest Lantau	1.4	1.1	7.7	6.1			

Note: Overall dolphin encounter rates (sightings per 100 km of survey effort) from all four surveys are conducted in February 2016 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, four (4) site inspections were carried out on 3, 11, 17 and 24 February 2016.

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
3 February 2016	 Works Area - Portion N-C NRMM label should be provided to the Scissor Platform. Works Area - Southern Landfall Water inside the drip tray should be cleared. 	 Works Area - Portion N-C The Contractor was reminded to provide NRMM label to the Scissor Platform. Works Area - Southern Landfall The Contractor was reminded to clear the water inside the drip tray.
11 February 2016	 Works Area - Portion N-C Waste in the skips should be cleared. Chemical container should be removed after used. Works Area - Portion S-C Cement bags should be covered with tarpaulin properly. 	 Works Area - Portion N-C The Contractor was reminded to clear the waste in the skips. The Contractor was reminded to remove the chemical container after used. Works Area - Portion S-C The Contractor was reminded to cover the cement bags with tarpaulin properly.
17 February 2016	 Works Area - Portion N-A Water spraying should be applied more frequently during dry condition. Sand bags should be placed to prevent runoff to the sea. Works Area - Portion S-A The wastewater should be stored in wastewater tanks. 	 Works Area - Portion N-A The Contractor was reminded to apply water spraying more frequently during dry condition. The Contractor was reminded to place some sand bags to prevent runoff to the sea. Works Area - Portion S-A The Contractor was reminded to store the wastewater in wastewater tanks.
24 February 2016	 Works Area - Portion N-C Accumulated waste in the skips should be cleared. Oil drums should be placed in drip tray. 	 Works Area - Portion N-C The Contractor was reminded to clear the accumulated waste in the skips. The Contractor was reminded to place the oil drums in drip tray.

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 include 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

Waste (tonne		Waste Re- used	Waste (b) (tonnes)	(kg)	(kg)	Category	Category M
		(tonnes)	, , , , , , , , , , , , , , , , , , ,			L	$(\mathbf{M}_{p} \& \mathbf{M}_{f})$
February 9,229 2016	0	0	102	1,850	4,740	0	0

(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	Remarks
Environmental Permit	EP-354/2009/D	13 March 2015	Throughout the Contract	HyD	Application for VEP on 3 March 2015 to supersede EP-354/2009/C
Construction Dust Notification	363510	19 August 2013	Throughout the Contract	DBJV	-
Chemical Waste Registration	5213-422-D2516-01	10 September 2013	Throughout the Contract	DBJV	-
Construction Waste Disposal Account	7018108	28 August 2013	Throughout the Contract	DBJV	Waste disposal in Contract No. HY/2012/08
Waste Water Discharge License	WT00017707-2013	18 November 2013	30 November 2018	DBJV	For site WA18
Waste Water Discharge License	WT00019248-2014	5 June 2014	30 June 2019	DBJV	For site Portion N6 and Reclamation Area E
Construction Noise Permit	GW-RW0018-16	20 January 2016	19 July 2016	DBJV	For Urmston Road in front of Pillar Point
Construction Noise Permit	GW-RW0638-15	14 December 2015	13 June 2016	DBJV	For site WA23
Construction Noise Permit	GW-RW0474-15	29 September 2015	28 March 2016	DBJV	For Portion N6
Construction Noise Permit	GW-RS1447-15	5 January 2016	4 June 2016	DBJV	For excavation works at Southern Landfall
Notes:					
HyD = Highways Department					
DBJV = Dragages - Bouygue	-				
VEP = Variation of Environm	nental Permit				

Table 2.11Summary of Environmental Licensing and Permit Status

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

No Action Level or Limit Level exceedances were recorded in the air quality monitoring of this reporting month.

Whilst one (1) Limit Level exceedance was observed for the quarterly dolphin monitoring data between December 2015 and February 2016, no unacceptable impact from the construction activities of the TM-CLKL Northern Connection Sub-sea Tunnel Section on Chinese White Dolphins was noticeable from general observations. Due to monthly variation in dolphin occurrence within the study area, it would be more appropriate to draw conclusion on whether any impacts on dolphins have been detected related to the construction activities of the TM-CLKL Northern Connection Sub-sea Tunnel Section 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.

Cumulative statistics are provided in *Appendix K*.

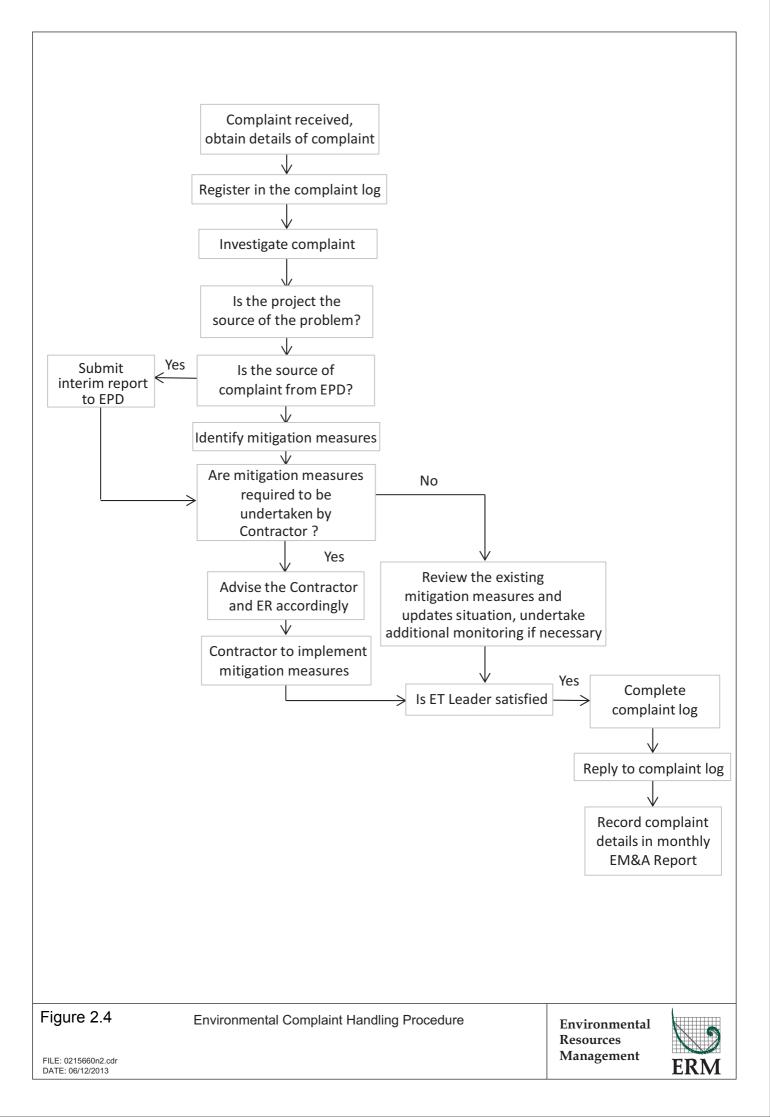
2.9 SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

The Environmental Complaint Handling Procedure is provided in Figure 2.4.

No environmental complaint was received in the reporting period.

No notification of summons and prosecution were received in the 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 March 2016 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 Cross Passage Tympanum Portion N-A;
- Excavation of sub-sea tunnel Portion N-C; and
- TBM Tunnel Works at Works Area Portion N-C.

3.2 KEY ISSUES FOR THE COMING MONTH

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of March 2016 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 March 2016 is provided in *Appendix F*.

CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

4

This Twenty-eighth Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 29 February 2016, 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. No Action Level or Limit Level exceedances were recorded in the air quality monitoring of this reporting month.

A total of two groups of 11 Chinese White Dolphins sightings were recorded during the two sets of surveys in February 2016. Both dolphin sightings were made in NWL, while none was sighted in NEL. Both dolphin sightings were made on primary lines during on-effort search and neither dolphin group was associated with any operating fishing vessel. Whilst one (1) Limit Level exceedance was observed for the quarterly dolphin monitoring data between December 2015 and February 2016, no unacceptable impact from the construction activities of the TM-CLKL Northern Connection Sub-sea Tunnel Section on Chinese White Dolphins was noticeable from general observations during the dolphin monitoring in this reporting month.

Environmental site inspection was carried out four (4) times in February 2016. Recommendations on remedial actions recommended for the deficiencies identified during the site audits were properly implemented by the Contractor.

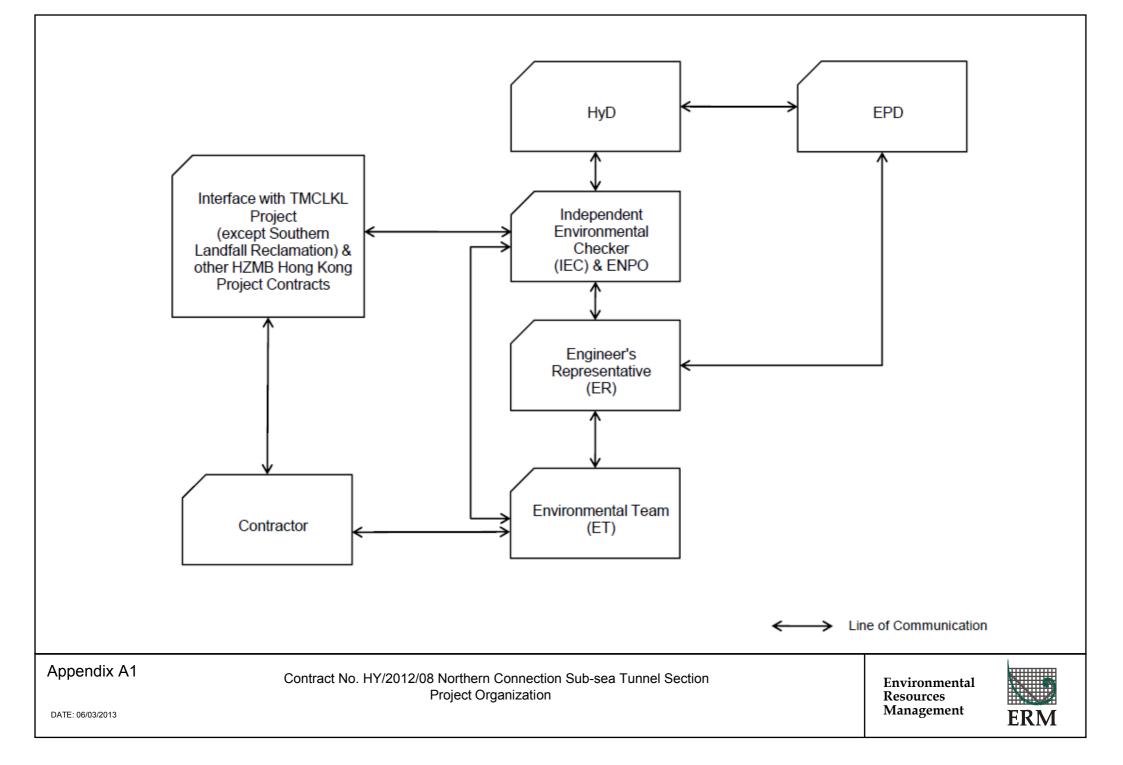
No non-compliance event was recorded during the reporting period.

No environmental complaint was received during the reporting period.

No summons/ prosecution was received during the 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. Appendix A

Project Organization for Environmental Works



Appendix B

Construction Programme

Ac	zivity Name	Orig	DWPF Start	DWPF		•		
		Dur		Finish	2015			2016
					Dec	Jan	Feb	Mar Apr May Jun Jul
	TMCLK - Northern Connection Sub-Sea Tunnel Section							
	Contract Dates							
	Commencement and Completion Dates						1	
	KD06 - Completion of Section 1B - Portion N8	0		03-Dec-15	KD06 - Co	mpletion of Sectio	¦ ≬1B - Portion №	8
	Site Possession Date	÷					¦	
	Portions: X1,(N10,11,13 & 14) - Sth Landfall	0	06-Aug-15				- - -	
	Handover Date						1	
	Portions: N8A, N8B(above +3), N8C	0	ĺ	03-Dec-15	Portions: N	I8A, N8B(above +	3), N8C	
	General Submissions							
	Environmental							
	Environmental Permit Submissions							
	Supplementary WMP of C&C Tunnel at Sth.Landfall							
	Supplementary WMP of C&C Tunnel at Sth.Landfall	0	Í	28-Jun-14				
							1	
	Sediment Quality Report/Dumping Permit						1	
	Southern Landfall							
	Southern landfall - Commencement of Shaft & C&C Tunnel Dwall	0	03-Oct-15		cement of Shaft	& C&C Tunnel Dw	vall	
	Southern Landfall - Commencement of Retrieval Shaft Excavation	0	30-Jan-16		1		Southern Lar	dfall - Commencement of Retrieval Shaft Excavation
	Southern Landfall - Retrieval Shaft Excavation to tentative MD layer	0	15-Apr-16		-1			Southern Landfall - Retrieval Shaft Excavation to tental
	Southern Landfall - Commencement of C&C Tunnel Excavation							
		0	03-Mar-16					Southern Landfall - Commencement of C&C Tunnel Excavation
	Southern Landfall - Commencement of C&C Tunnel to tentative MD layer	0	02-Apr-16					Southern Landfall - Commencement of C&C Tunnel to tentativ
	Sediment Sampling & Testing Plan (SSTP) - if required					1	 ! !	
	Complete SSTP and Obtain EPD's approval	24	17-Feb-15	23-Mar-15			1	
	Sediment Quality Report (SQR) - if required							
		01	04 14 15	04 America				
	Advance Ground Investigation works for Sediment sampling	24	24-Mar-15	24-Apr-15			1	
	Sediment Sample Testing & Report preparation	120	25-Apr-15	16-Sep-15	reparation			
	Dumping Permit for Load Dumping (Loading Permit) - if required							
	Finalize the applivation doucment and submit to EPD - for Dwall	24	20-Jan-15	16-Feb-15			1	
	Notify the results and issue Loading Permit for Local & Cross Boundary Crossing - for Dwall	24	17-Feb-15	23-Mar-15			1	
	Finalize the applivation doucment and submit to EPD - for Excavation	24	16-Nov-15	12-Dec-15	Finaliz	ze the applivation	poucment and s	ubmit to EPD - for Excavation
	Notify the results and issue Loading Permit for Local & Cross Boundary Crossing - for Excavation	24	14-Dec-15	13-Jan-16		Notify	the results and	ssue Loading Permit for Local & Cross Boundary Crossing - for Excavation
	Dumping at Sea Ordinance (DASO)	1			1			
	Submit application for local dumping	24	16-Nov-15	12-Dec-15	Submi	it application for Ic	kal dumping	
	Approval for Dumping at Sea Ordinance	24	14-Dec-15	13-Jan-16				at Sea Ordinance
		24	13	10-Jail-10		Appro	umping	
	Cross Boundary Dumping Permit		,					
	Apply for Cross Boundary Dumping Permit	24	14-Jan-16	17-Feb-16			Ар	ply for Cross Boundary Dumping Permit
	Cross Boundary Dumping Approval	24	18-Feb-16	16-Mar-16	1	1		Cross Boundary Dumping Approval
	Issuance of PRC Permit for Cat L, Mp	0		16-Mar-16				Issuance of PRC Permit for Cat L, Mp
					1		1	
	General Design Submissions							
	(G6) IFA for Tunnel GBP							
	SO's Review	35	29-Apr-14	02-Jun-14				
	SO Approval with Condition R eceived	0		03-Jun-14		+		
	PAYMENT MILESTONE							
	Design and Design Checking of the Works	i						
	MS 2.12 Approve DDA for ground treatment at Southern Landfall by the Supervising Officer	0		31-Aug-15	Southern Landfa	II by the Supervisi	hg Officer	
	MS 2.20.3 Approve DDA for Cross Passages by the Supervising Officer by the Supervising Officer	0		31-Mar-15				
	MS 2.23Submit DDA for Cut- and-cover Tunnel and Cross Passages at Southern Landfall	0		31-Jan-15	1	+	; ;	
	MS 2.24 Approve DDA for Cut-and-cover Tunnel and Cross Passages at Southern Landfall by the Supervising Officer	0		30-Apr-15	icer			
				-				
	MS 2.32 Approve DDA for Approach Ramp Structures to Cut-and-cover Tunnels by the Supervising Officer	0		30-Apr-15				
	MS 2.44 Approve DDA for South Ventilation Building by the Supervising Officer	0		30-Jun-15				
	MS 2.48 Approve DDA for North Ventilation Building by the Supervising Officer	0		31-Jan-15			1	
	MS 2.51 Submit DDA for Facilities Provision for TCSS	0		29-Nov-14		+		
	MS 2.52 Approve DDA for Facilities Provision for TCSS by the Supervising Officer	0		28-Feb-15				
					44			
	MS 2.56 Approve DDA for Drainage, Sewerage, Waterworks and Utilities at Southern Landfall by the Supervising Officer	0		30-Apr-15	Difficer			
	MS 2.60 Approve DDA for Drainage, Sewerage, Waterworks and Utilities at Northern Landfall by the Supervising Officer	0		31-Dec-14				
	MS 2.69 Submit draft Operation and Maintenance Manual for all Tunnels and Cross Pass gaes	0		29-Feb-16			•	MS 2.69 Submit draft Operation and Maintenance Manual for all Tunnels and Crc
	MS 2.71 Submit draft Operation and Maintenance Manual for all works except Tunnels and Cross Passgaes	0		29-Feb-16		+	•	MS 2.71 Submit draft Operation and Maintenance Manual for all works except Tu
	Tunnel Boring Machine (TBM) and Back-up Equipment for TBM Tunnel							
		i -	r	01.0				
	MS 3.1.9 Delivery to Site of remaining parts of TBM and back-up equipment for Northbound Tunnel	0		31-Dec-15	1	MS 3.1.9 Deli	very to Site of re	maining parts of TBM and back-up equipment for Northbound Tunnel
	MS 3.1.10 Complete site assembly, testing and commissioning of TBM for Northbound Tunnel	0		30-Nov-15	MS 3.1.10 Co	omplete site asser	ἡbly, testing and	commissioning of TBM for Northbound Tunnel
	MS 3.1.25 Complete the whole of the activities under this Cost Centre Part to the satisfaction of the Supervising Office	0		31-Dec-15	1 .	MS 3.1.25 Co	mplete the whol	of the activities under this Cost Centre Part to the satisfaction of the Supervising (
	TBM Tunnel				1	+		
	MS 3.3.4 Complete walls of retrieval shaft	0	Í	30-Jan-16			MS 3 3 4 0	plete walls of retrieval shaft
	MS 3.3.7 Completion of excavation, support and permanent lining for 1% of the total length (measured on plan) of the Nor	0		31-Dec-15		 MS 3.3.7 Corr 	pletion of exca	ation, support and permanent lining for 1% of the total length (measured on plan) of
Ĺ								
Pa	age 1 of 15 Planned Bar TMCLK - No	orthern C	Connection Su	ıb-Sea Tunr	nel Section			Date Revision Checked Approved 12-Feb-14 TMCLKDBJGENPRG/8507 WYu SPo 08-Apr-14 TMCLKDBJGENPRG/8507 Rev B SPa WYu
Pr	oject ID: TMCLK DWPF 15W48	atailad M	lorke Preasers	me (Perr	.)		寶嘉	18-Apr-14 IMCLNDBJGENPHG/88507 Nev.C [SPa 28-Aug-14 IMCLNDBJGENPHG/88507 Rev.C [CLa WYu 10-Jun-15 IMCLNDBJGENPRG/88507 Rev.C [WYu
	Planned Milestone	staned W	orks Program	inne (Rev. F)		世史元 Dragages longKong	
Da	ata Date: 28-Feb-16 Progress bar -	Three Mo	onths Rolling I	Programme	•	A member of the Bouygues Co	enstruction group	4- 14- 40 M 49
	Progress Milestone			-		Dragages - Bouygue	s Joint Venture 寶嘉 ·	1/2 (A-14)-92 ⁴ 88

Progress as of 28-Feb-16

Activity Name		Orig	DWPF Start	DWPF							
		Dur		Finish	2015 Dec	Jan Feb	Mar	2016 Apr	Мау	Jun	Jul
MS 3.3.8 Completion of excavation, support and permanent lining for 2% of the total length (measured or		0		31-Dec-15	•	MS 3.3.8 Completion of excav					
MS 3.3.9 Completion of excavation, support and permanent lining for 3% of the total length (measured or		0		31-Dec-15		MS 3.3.9 Completion of excav		,. 			
MS 3.3.10 Completion of excavation, support and permanent lining for 4% of the total length (measured c		0		30-Jan-16		♦ MS 3.3.10 Cc					
MS 3.3.11 Completion of excavation, support and permanent lining for 5% of the total length (measured o		0		30-Jan-16		MS 3.3.11 Co				-	
MS 3.3.12 Completion of excavation, support and permanent lining for 6% of the total length (measured of the line		0		30-Jan-16			mpletion of excav			-	
MS 3.3.13 Completion of excavation, support and permanent lining for 7% of the total length (measured of MC 0.0.14 Completion of excavation, support and permanent lining for 2% of the total length (measured of total length		0		30-Jan-16			mpletion of excav				ů (
MS 3.3.14 Completion of excavation, support and permanent lining for 8% of the total length (measured of MS 20.215.0 and bits of the state of the st		0		29-Feb-16	¦ 	• • • • • • • • • • • • • • • • • • • •			ation, support an		
MS 3.3.15 Completion of excavation, support and permanent lining for 9% of the total length (measured c		0		29-Feb-16				1	ation, support an		-
MS 3.3.16 Completion of excavation, support and permanent lining for 10% of the total length (measured		0		29-Feb-16					ation, support an		-
MS 3.3.17 Completion of excavation, support and permanent lining for 11% of the total length (measured		0		29-Feb-16		•			ation, support an		-
MS 3.3.18 Completion of excavation, support and permanent lining for 12% of the total length (measured	. ,	0		31-Mar-16					npletion of excav		
MS 3.3.19 Completion of excavation, support and permanent lining for 13% of the total length (measured	. ,	0		31-Mar-16				- 	npletion of excav		
MS 3.3.20 Completion of excavation, support and permanent lining for 14% of the total length (measured	. ,	0		31-Mar-16					mpletion of excav		
MS 3.3.21 Completion of excavation, support and permanent lining for 15% of the total length (measured		0		31-Mar-16					npletion of excav		
MS 3.3.22 Completion of excavation, support and permanent lining for 16% of the total length (measured	. ,	0		31-Mar-16				1	mpletion of excav		
MS 3.3.23 Completion of excavation, support and permanent lining for 17% of the total length (measured	. ,	0		30-Apr-16				•	MS 3.3.23 Con	pletion of excav	ation, support a
MS 3.3.24 Completion of excavation, support and permanent lining for 18% of the total length (measured	. ,	0		30-Apr-16				4	MS 3.3.24 Con	pletion of excav	ation, support a
MS 3.3.25 Completion of excavation, support and permanent lining for 19% of the total length (measured		0		30-Apr-16					MS 3.3.25 Con		
MS 3.3.26 Completion of excavation, support and permanent lining for 20% of the total length (measured	. ,	0		30-Apr-16					MS 3.3.26 Con		
MS 3.3.27 Completion of excavation, support and permanent lining for 21% of the total length (measured	. ,	0		30-Apr-16				4	MS 3.3.27 Con		
MS 3.3.28 Completion of excavation, support and permanent lining for 22% of the total length (measured		0		30-Apr-16				4		npletion of excav	
MS 3.3.29 Completion of excavation, support and permanent lining for 23% of the total length (measured	. ,	0		30-Apr-16	ļ			•	MS 3.3.29 Cor	npletion of excav	ation, support a
MS 3.3.62 Completion of excavation, support and permanent lining for 1% of the total length (measured o	on plan) of the So	0		30-Nov-15	MS 3.3.62 Co	npletion of excavation, support a	nd permanent lin	ing for 1% of the t	otal length (meas	ured on plan) of	the So
MS 3.3.63 Completion of excavation, support and permanent lining for 2% of the total length (measured o	on plan) of the So	0		30-Nov-15	MS 3.3.63 Co	npletion of excavation, support a	hd permanent lin	ihg for 2% of the t	otal length (meas	ured on plan) of	the So
MS 3.3.64 Completion of excavation, support and permanent lining for 3% of the total length (measured c	on plan) of the So	0		30-Nov-15	MS 3.3.64 Co	npletion of excavation, support a	d permanent lin	ing for 3% of the t	otal length (meas	ured on plan) of	the So
MS 3.3.65 Completion of excavation, support and permanent lining for 4% of the total length (measured c	on plan) of the So	0		31-Dec-15	•	MS 3.3.65 Completion of exc	vation, support a	nd permanent lin	ng for 4% of the	otal length (mea	sured on plan) (
MS 3.3.66 Completion of excavation, support and permanent lining for 5% of the total length (measured c	on plan) of the So	0		31-Dec-15	•	MS 3.3.66 Completion of exc	vation, support a	nd permanent lin	ng for 5% of the	otal length (mea	sured on plan) (
MS 3.3.67 Completion of excavation, support and permanent lining for 6% of the total length (measured c	on plan) of the So	0		31-Dec-15	•	MS 3.3.67 Completion of exca	vation, support a	nd permanent lini	ng for 6% of the t	otal length (meas	sured on plan) c
MS 3.3.68 Completion of excavation, support and permanent lining for 7% of the total length (measured of	on plan) of the So	0		30-Jan-16		♦ MS 3.3.68 Cc	mpletion of excav	ation, support an	d permanent linir	g for 7% of the to	otal length (mea
MS 3.3.69 Completion of excavation, support and permanent lining for 8% of the total length (measured of	on plan) of the So	0		30-Jan-16		♦ MS 3.3.69 Cc	mpletion of excav	vation, support an	d permanent linir	g for 8% of the to	otal length (mea
MS 3.3.70 Completion of excavation, support and permanent lining for 9% of the total length (measured c	on plan) of the So	0		30-Jan-16		♦ MS 3.3.70 Cc	mpletion of excav	ation, support an	d permanent linir	g for 9% of the to	otal length (mea
MS 3.3.71 Completion of excavation, support and permanent lining for 10% of the total length (measured	on plan) of the S	0		29-Feb-16		•	MS 3.3.71 Cor	mpletion of excav	ation, support an	l permanent linir	ig for 10% of th
MS 3.3.72 Completion of excavation, support and permanent lining for 11% of the total length (measured	on plan) of the S	0		29-Feb-16		•	MS 3.3.72 Cor	mpletion of excav	ation, support an	d permanent linin	ig for 11% of the
MS 3.3.73 Completion of excavation, support and permanent lining for 12% of the total length (measured	on plan) of the S	0		29-Feb-16		•	MS 3.3.73 Cor	npletion of excav	ation, support an	l permanent linir	ig for 12% of the
MS 3.3.74 Completion of excavation, support and permanent lining for 13% of the total length (measured	on plan) of the S	0		29-Feb-16		•	MS 3.3.74 Cor	mpletion of excav	ation, support an	d permanent linin	ig for 13% of th
MS 3.3.75 Completion of excavation, support and permanent lining for 14% of the total length (measured	on plan) of the S	0		29-Feb-16		•	MS 3.3.75 Cor	npletion of excav	ation, support an	l permanent linir	ig for 14% of the
MS 3.3.76 Completion of excavation, support and permanent lining for 15% of the total length (measured	on plan) of the S	0		31-Mar-16				MS 3.3.76 Co	npletion of excav	ation, support an	d permanent lir
MS 3.3.77 Completion of excavation, support and permanent lining for 16% of the total length (measured	on plan) of the S	0		31-Mar-16				MS 3.3.77 Co	npletion of excav	ation, support an	d permanent lir
MS 3.3.78 Completion of excavation, support and permanent lining for 17% of the total length (measured	on plan) of the S	0		31-Mar-16				MS 3.3.78 Co	npletion of excav	ation, support an	d permanent lir
MS 3.3.79 Completion of excavation, support and permanent lining for 18% of the total length (measured	on plan) of the S	0		31-Mar-16				MS 3.3.79 Co	npletion of excav	ation, support an	d permanent lir
MS 3.3.80 Completion of excavation, support and permanent lining for 19% of the total length (measured	on plan) of the S	0		31-Mar-16				MS 3.3.80 Co	npletion of excav	ation, support an	d permanent lir
MS 3.3.81 Completion of excavation, support and permanent lining for 20% of the total length (measured	on plan) of the S	0		31-Mar-16				MS 3.3.81 Co	npletion of excav	ation, support an	d permanent lir
MS 3.3.82 Completion of excavation, support and permanent lining for 21% of the total length (measured	on plan) of the S	0		31-Mar-16				MS 3.3.82 Co	npletion of excav	ation, support an	d permanent lir
MS 3.3.83 Completion of excavation, support and permanent lining for 22% of the total length (measured	on plan) of the S	0		30-Apr-16				4	MS 3.3.83 Con	pletion of excav	ation, support a
MS 3.3.84 Completion of excavation, support and permanent lining for 23% of the total length (measured	on plan) of the S	0		30-Apr-16				•	MS 3.3.84 Con	pletion of excav	ation, support a
MS 3.3.85 Completion of excavation, support and permanent lining for 24% of the total length (measured	on plan) of the S	0		30-Apr-16				4	MS 3.3.85 Con	pletion of excav	ation, support a
MS 3.3.86 Completion of excavation, support and permanent lining for 25% of the total length (measured	on plan) of the S	0		30-Apr-16				4	MS 3.3.86 Con	pletion of excav	ation, support a
MS 3.3.87 Completion of excavation, support and permanent lining for 27.5% of the total length (measure	ed on plan) of the	0		30-Apr-16				4	MS 3.3.87 Con	pletion of excav	ation, support a
Cut-and-cover Tunnels at Southern Landfalls	1										
MS 4.1.1 Complete 10% of total length (measured on plan) of temporary retaining walls for excavation of	Cut-and-cover tu	0		31-Oct-15	hplete 10% of tota	l length (measured on plan) of te	mporary retainin	g walls for excave	ation of Cut-and-o	over tu	
MS 4.1.2 Complete 20% of total length (measured on plan)of temporary retaining walls for excavation of	Cut-and-cover tun	0		31-Oct-15	mplete 20% of tot	al length (measured on plan)of te	hporary retaining	walls for excave	ation of Cut-and-c	over tun	
MS 4.1.3 Complete 30% of total length (measured on plan) of temporary retaining walls for excavation of	Cut-and-cover tu	0		30-Nov-15	MS 4.1.3 Com	plete 30% of total length (measu	ed on plan) of ter	mporary retaining	walls for excava	tion of Cut-and-c	over tu
MS 4.1.4 Complete 40% of total length (measured on plan) of temporary retaining walls for excavation of	Cut-and-cover tu	0		30-Nov-15	MS 4.1.4 Com	plete 40% of total length (measu	ed on plan) of ter	mporary retaining	walls for excava	tion of Cut-and-o	over tu
MS 4.1.5 Complete 50% of total length (measured on plan) of temporary retaining walls for excavation of	Cut-and-cover tu	0		31-Dec-15	•	MS 4.1.5 Complete 50% of to	al length (measu	red on plan) of te	nporary retaining	walls for excave	ation of Cut-anc
MS 4.1.6 Complete 60% of total length (measured on plan) of temporary retaining walls for excavation of	Cut-and-cover tu	0		31-Dec-15		MS 4.1.6 Complete 60% of to	al length (measu	red on plan) of te	mporary retaining	walls for excave	ation of Cut-anc
MS 4.1.7 Complete 70% of total length (measured on plan) of temporary retaining walls for excavation of	Cut-and-cover tu	0		30-Jan-16		MS 4.1.7 Cor	plete 70% of tota	l length (measur	ed on plan) of ten	porary retaining	walls for excav
MS 4.1.8 Complete 80% of total length (measured on plan) of temporary retaining walls for excavation of	Cut-and-cover tu	0		30-Jan-16		MS 4.1.8 Cor	plete 80% of tota	al length (measur	ed on plan) of ten	iporary retaining	walls for excav
MS 4.1.9 Complete 90% of total length (measured on plan) of temporary retaining walls for excavation of	Cut-and-cover tu	0		29-Feb-16	¦		MS 4.1.9 Com	plete 90% of tota	length (measure	d on plan) of tem	porary retainir
MS 4.1.10 Complete 100% of total length (measured on plan) of temporary retaining walls for excavation	of Cut-and-cover	0		31-Mar-16				MS 4.1.10 Cor	nplete 100% of to	tal length (meas	ured on plan) o
MS 4.1.26 Complete excavation for 50% of total length (measured on plan) of all Cross Passages		0		31-Dec-15	•	MS 4.1.26 Complete excavati	on for 50% of tota	l length (measure	ed on plan) of all	Cross Passages	
MS 4.1.27 Complete excavation for 100% of total length (measured on plan) of all Cross Passages		0		31-Mar-16				MS 4.1.27 Co	nplete excavatio	for 100% of tota	l length (measi
Cut-and-cover Tunnel at Northern Landfall								1 1 1			
MS 4.2.21 Completion of Permanent Lining for 100% of SB Northern Landfall TBM Tunnel		0		30-Sep-15	hanent Lining for	100% of SB Northern Landfall TE	M Tunnel	 			
					1				1		
Page 2 of 15 Planned Bar TI	MCLK - North	nern Co	onnection Su	b-Sea Tunn	el Section				Revision CLK/DBJ/GEN/PRG/98503	Checked WYu	Approved SPo
Project ID: TMCLK DWPF 15W48						▲ ● ● ● ● ● ● ● ● ● ● ● ●		08-Apr-14 TM0 28-Aug-14 TM0	CLK/DBJGEN/PRG/9850 CLK/DBJGEN/PRG/9850 CLK/DBJGEN/PRG/9850	Rev.C CLa	WYu WYu WYu
Planned Milestone	Detail	ea wo	orks Program	me (Rev. F))	を見ます Dragages HongKong	BOUYGUES TRAVAUX PUBLICS)			
Data Date: 28-Feb-16 Progress bar	Thre	ee Moi	nths Rolling F	Programme		A member of the Bouygues Construction group Dragages - Bouygues Joint Venture 寶嘉 -	布依格聯營				
			aa aa af 00 I								

Progress as of 28-Feb-16

	Name	Ori	g DWPF Start	DWPF		·						
		Du		Finish	2015 Dec	Jan	Feb	Mar	2016 Apr	May	Jun	Jul
	Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfa	ll l				Jan		iviai	l <u>vh</u>		Jun	
	MS 5.1.1 Complete 20% of excavation for approach ramp structures	0		31-Mar-16					MS 5.1.1 Cor	h hplete 20% of exc	avation for appr	ach ramp struc
	MS 5.1.2 Complete 40% of excavation for approach ramp structures	0		31-Mar-16						nplete 40% of exc		
		0		31-Mar-16								
	MS 5.1.3 Complete 60% of excavation for approach ramp structures									nplete 60% of exc		
	MS 5.1.4 Complete 80% of excavation for approach ramp structures	0		30-Apr-16						MS 5.1.4 Com	plete 80% of exc	cavation for appr
	MS 5.1.5 Complete 100% of excavation for approach ramp structures	0		30-Apr-16						MS 5.1.5 Com	plete 100% of ex	cavation for app
	MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp stru	ucture 0		31-Oct-15	hplete retaining v	all foundation for	10% of the tota	l length (measure	d on plan) of app	roach ramp struc	lure	
	MS 5.1.7 Complete retaining wall foundation for 20% of the total length (measured on plan) of approach ramp stru	ucture 0		30-Nov-15	MS 5.1.7 Con	nplete retaining w	all foundation fo	20% of the total	length (measure	d on plan) of appr	oach ramp struc	ture
	MS 5.1.8 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ramp stru	ucture 0		30-Nov-15	MS 5.1.8 Con	nplete retaining w	All foundation fo	30% of the total	length (measure	d on plan) of appr	; ¢ach ramp struc	ture
	MS 5.1.9 Complete retaining wall foundation for 40% of the total length (measured on plan) of approach ramp stru	ucture 0		31-Dec-15		MS 5 1 9 Con	nolete retaining	vall foundation fo	r 40% of the total	l length (measured	lon plan) of app	roach ramp stru
				31-Dec-15]						
	MS 5.1.10 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp str				•]				al length (measure		
	MS 5.1.11 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp str	ructure 0		30-Jan-16			MS 5.1.11 Co	hplete retaining	wall foundation fo	of 60% of the total	length (measure	ed on plan) of ap
	MS 5.1.12 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp str	ructure 0		30-Jan-16		•	MS 5.1.12 Co	mplete retaining	wall foundation fo	or 70% of the total	length (measur	ed on plan) of ap
	MS 5.1.13 Complete retaining wall foundation for 80% of the total length (measured on plan) of approach ramp str	ructure 0		29-Feb-16			•	MS 5.1.13 Co	mplete retaining	wall foundation for	80% of the tota	length (measur
	MS 5.1.14 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp str	ructure 0		29-Feb-16				MS 5.1.14 Co	mplete retaining	wall foundation for	90% of the tota	length (measur
	MS 5.1.15 Complete retaining wall foundation for 100% of the total length (measured on plan) of approach ramp s	structure 0		31-Mar-16					MS 5.1.15 Co	h mplete retaining v	kall foundation fo	or 100% of the to
	South Ventilation Buildings											
	MS 7.1.3 Complete 100% of foundation for the ventilation building	0		30-Apr-16						MS 7.1.3 Com	l l loto 100% of fo	undation for the
				00-Api - 10						WIS 7.1.3 COIII		undation for the
	North Ventilation Buildings					 						
	MS 7.2.3 Complete 100% of foundation for the ventilation building	0		30-Nov-15	MS 7.2.3 Con	plete 100% of fo	oundation for the	entilation buildir	- ต่		1	
С	onstruction								1 1 1		1 1 1	
	Northern Landfall										1 1 1	
.	North Reclamation (Phase 1)											
	Construction										1	
	Zone E											
											1 1 1	
	Reclamation								- - - -		1 1 1	
	Public Fill - Zone E - (CH150 to 205) to +10.0mPD	12	18-Feb-15	10-Mar-15	1						1 1 1	
	Public Fill - Zone E - (CH150 to 205) - Removal to +6.0mPD	12	24-Oct-15	07-Nov-15	III - Zone E - (CH	150 to 205) - Rer	moval to +6.0m	PD				
	Zone D1	!										
111	Reclamation										, L	
	Surcharge Removal - Zone D1 - (CH255 to 305) to +6mPD	6	24-Nov-15	01-Dec-15	Surcharge B	emoval - Zone D	1 - (CH255 to .	5) to +6mPD	1 1 1		1 1 1	
		2		03-Dec-15						-		
	Preparation for Portion N8 Handover				1	for Portion N8 H	landover			-	1 1 1	
	Portion N8 Handover	0		03-Dec-15	Portion N8	Handover						
	Zone B								- - - -		1 1 1	
	Reclamation						-!				L	
	Surcharge Period - Zone B - (CH598 to 648)	180) 10-Sep-15	08-Mar-16	1		1 1 -	Surcharg	e Period - Zone	Å - (CH598 to 648	, 3)	
	Surcharge Removal - Zone B - (CH598 to 648)	10	08-Mar-16	19-Mar-16				Su	¦ rcharge Remova	¦ al¦ - Zone B - (CH5	¦ \$98 to 648)	
				27-Jul-16			:					: 1
	Surcharge Period - Zone B - (CH648 to 698) stage 1	180) 30-Jan-16		1		1					
	Surcharge Period - Zone B - (CH648 to 698) stage 1	180) 30-Jan-16		-		:		1 1 1		- - - - - -	
	Zone A2	180) 30-Jan-16	2. 00. 10			 -					
	Zone A2 Sloping Seawall											
	Zone A2	4		19-Jun-14								
	Zone A2 Sloping Seawall		14-Jun-14									
	Zone A2 Sloping Seawall SS - Armour Rock - Zone A2 - (CH843 to 893)	4	14-Jun-14	19-Jun-14								
	Zone A2 Sloping Seawall SS - Armour Rock - Zone A2 - (CH843 to 893) SS - Armour Rock - Zone A2 - (CH893 to 956)	4	14-Jun-14	19-Jun-14								
	Zone A2 Sloping Seawall SS - Armour Rock - Zone A2 - (CH843 to 893) SS - Armour Rock - Zone A2 - (CH893 to 956) Zone F	4	14-Jun-14 19-Jun-14	19-Jun-14								
	Zone A2 Sloping Seawall SS - Armour Rock - Zone A2 - (CH843 to 893) SS - Armour Rock - Zone A2 - (CH893 to 956) Zone F CH184 to CH231 F - Anchor wall Installation - CH184 to CH231	4	14-Jun-14 19-Jun-14 10-Feb-14	19-Jun-14 24-Jun-14 13-Feb-14								
	Zone A2 Sloping Seawall SS - Armour Rock - Zone A2 - (CH843 to 893) SS - Armour Rock - Zone A2 - (CH893 to 956) Zone F CH184 to CH231 F - Anchor wall Installation - CH184 to CH231 F - Backfilling up to 0.0mPD & G2 Installation to Anchor Wall- CH184 to CH231	4	14-Jun-14 19-Jun-14 10-Feb-14 14-Feb-14	19-Jun-14 24-Jun-14 13-Feb-14 16-Feb-14								
	Zone A2 Sloping Seawall SS - Armour Rock - Zone A2 - (CH843 to 893) SS - Armour Rock - Zone A2 - (CH893 to 956) Zone F CH184 to CH231 F - Anchor wall Installation - CH184 to CH231 F - Backfilling up to 0.0mPD & G2 Installation to Anchor Wall- CH184 to CH231 F - Backfilling up to +3.0mPD & G1 Installation to Anchor Wall- CH184 to CH231	4 4 4 3 2	14-Jun-14 19-Jun-14 10-Feb-14 14-Feb-14 17-Feb-14	19-Jun-14 24-Jun-14 13-Feb-14 16-Feb-14 18-Feb-14								
	Zone A2 Sloping Seawall SS - Armour Rock - Zone A2 - (CH843 to 893) SS - Armour Rock - Zone A2 - (CH893 to 956) Zone F CH184 to CH231 F - Anchor wall Installation - CH184 to CH231 F - Backfilling up to 0.0mPD & G2 Installation to Anchor Wall- CH184 to CH231	4	14-Jun-14 19-Jun-14 10-Feb-14 14-Feb-14 17-Feb-14	19-Jun-14 24-Jun-14 13-Feb-14 16-Feb-14								
	Zone A2 Sloping Seawall SS - Armour Rock - Zone A2 - (CH843 to 893) SS - Armour Rock - Zone A2 - (CH893 to 956) Zone F CH184 to CH231 F - Anchor wall Installation - CH184 to CH231 F - Backfilling up to 0.0mPD & G2 Installation to Anchor Wall- CH184 to CH231 F - Backfilling up to +3.0mPD & G1 Installation to Anchor Wall- CH184 to CH231	4 4 4 3 2	14-Jun-14 19-Jun-14 10-Feb-14 14-Feb-14 17-Feb-14 19-Feb-14	19-Jun-14 24-Jun-14 13-Feb-14 16-Feb-14 18-Feb-14								
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	Zone A2 Sloping Seawall SS - Armour Rock - Zone A2 - (CH843 to 893) SS - Armour Rock - Zone A2 - (CH893 to 956) Zone F CH184 to CH231 F - Anchor wall Installation - CH184 to CH231 F - Backfilling up to 0.0mPD & G2 Installation to Anchor Wall- CH184 to CH231 F - Backfilling up to +3.0mPD & G1 Installation to Anchor Wall- CH184 to CH231 F - Backfilling up to +6.0mPD to Anchor Wall - CH184 to CH231 F - Backfilling up to +6.0mPD to Existing Seawall - CH184 to CH231	4 4 4 4 2 2 2	14-Jun-14 19-Jun-14 10-Feb-14 14-Feb-14 17-Feb-14 19-Feb-14 21-Feb-14	19-Jun-14 24-Jun-14 13-Feb-14 16-Feb-14 18-Feb-14 20-Feb-14								
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	Zone A2 Sloping Seawall SS - Armour Rock - Zone A2 - (CH843 to 893) SS - Armour Rock - Zone A2 - (CH893 to 956) Zone F CH184 to CH231 F - Anchor wall Installation - C H184 to CH231 F - Backfilling up to 0.0mPD & G2 Installation to Anchor Wall- CH184 to CH231 F - Backfilling up to +3.0mPD & G1 Installation to Anchor Wall- CH184 to CH231 F - Backfilling up to +6.0mPD to Anchor Wall - CH184 to CH231 F - Backfilling to +6.0mPD to Existing Seawall - CH184 to CH231 F - Backfilling up to +6.0mPD to Existing Seawall - CH184 to CH231 F - Backfilling up to +6.0mPD to Existing Seawall - CH184 to CH231 F - Backfilling up to +6.0mPD - CH231 to CH278 F - Anchor wall Installation - CH231 to CH278	4 4 4 3 2 2 2 1 1 2 4	14-Jun-14 19-Jun-14 19-Jun-14 10-Feb-14 14-Feb-14 14-Feb-14 19-Feb-14 21-Feb-14 21-Feb-14 21-Feb-14	19-Jun-14 24-Jun-14 13-Feb-14 16-Feb-14 18-Feb-14 20-Feb-14 21-Feb-14 18-Apr-14 18-Apr-14								
	Zone A2 Sloping Seawall SS - Armour Rock - Zone A2 - (CH843 to 893) SS - Armour Rock - Zone A2 - (CH893 to 956) Zone F CH184 to CH231 F - Anchor wall Installation - CH184 to CH231 F - Backfilling up to 0.0mPD & G2 Installation to Anchor Wall - CH184 to CH231 F - Backfilling up to +3.0mPD & G1 Installation to Anchor Wall - CH184 to CH231 F - Backfilling up to +6.0mPD to Existing Seawall - CH184 to CH231 F - Backfilling up to +6.0mPD to Existing Seawall - CH184 to CH231 F - Backfilling up to +6.0mPD - CH231 to CH278 F - Anchor wall Installation - CH231 to CH278 F - Anchor wall Installation - CH231 to CH278 F - Backfilling up to 0.0mPD & G2 Installation to Anchor Wall - CH231 to CH278	4 4 4 3 2 2 1 1 2 4 4 3	14-Jun-14 19-Jun-14 19-Jun-14 10-Feb-14 14-Feb-14 17-Feb-14 19-Feb-14 21-Feb-14 21-Feb-14 21-Feb-14 22-Apr-14 22-Apr-14	19-Jun-14 24-Jun-14 13-Feb-14 16-Feb-14 18-Feb-14 20-Feb-14 21-Feb-14 21-Feb-14 21-Feb-14 23-Apr-14 25-Apr-14								
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Progress as of 28-Feb-16

/ity Name	Orig	DWPF Start	DWPF	0015				0040			
	Dur		Finish	2015 Dec	Jan	Feb	Mar	2016 Apr	May	Jun	Jul
CH327 to CH381											
F - Backfilling up to +6.0mPD - CH327 to CH381	3	04-Apr-14	06-Apr-14			1	· · · · · · · · · · · · · · · · · · ·	 			
F - Anchor wall Installation - C H327 to CH381	3	02-May-14	05-May-14				 	 	- 		
F - Backfilling up to 0.0mPD & G2 Installation to Anchor Wall - CH327 to CH381	3	06-May-14	08-May-14				1 1 1	 			
F - Backfilling up to +3.0mPD & G1 Installation to Anchor Wall - CH327 to CH381	3	09-May-14	11-May-14					1 1 1			
F - Backfilling up to +6.0mPD to Anchor Wall - CH327 to CH381	2	12-May-14	13-May-14								
F - Backfilling to +6.0mPD to Existing Seawall - CH327 to CH381	1	14-May-14	14-May-14								
Box Culvert Extension							1 1 1	 			
Construction								1 1 1 1			
Ch000-010 Culvert Outfall							1 1 1	 			
Installation of temporary bulk head	26	10-Aug-15	08-Sep-15				1	1 1 1 1			
Removal of temporary bulk head	18	28-Nov-15	18-Dec-15	Ren	noval of tempora	ry bulk head					
CH000-150 Land Section							 	 			
ELS & Structure							1 1 1	1 1 1			
Pile A43/A41 CJ to Pile A41/A39 CJ											
ELS								, , , ,			
Excavation to FEL	5	14-May-15	19-May-15					 			
Box Culvert Structure											
Pile cap construction	10	27-May-15	06-Jun-15								
Base slab construction including kicker	6	19-Jun-15	26-Jun-15					, 1 1 1			
Removal of strut S1	4	27-Jun-15	02-Jul-15				1 1 1	 			
System formworks delivery & setup	14	03-Jul-15	18-Jul-15	 - 			, , ,	 			
Walls & top slab construction	6	20-Jul-15	25-Jul-15								
Removal of strut S2 & Backfilling up to required level	6	03-Aug-15	08-Aug-15				- - 	- - - - - - -			
	0	00-Aug-10	00-Aug-13	1 1 1			1 1 1	 			
Pile A45/A43 CJ to Pile A43/A41 CJ							1	1 1 1 1			
ELS	E	20 May 15	OG May 15					, , , ,			
Excavation to FEL	5	20-May-15	26-May-15	1			1 1 1	 	- 1 1		
Box Culvert Structure	10	00 km 45	10 1 15								
Pile cap construction	10	08-Jun-15	18-Jun-15								
Base slab construction including kicker	6	27-Jun-15	04-Jul-15					 			
Removal of strut S1	4	06-Jul-15	09-Jul-15	 		 	 +	 	 		
Walls & top slab construction	6	27-Jul-15	01-Aug-15								
Removal of strut S2 & Backfilling up to required level	6	10-Aug-15	15-Aug-15				 	1 1 1	- 1 1		
Pile A47/A45 CJ to Pile A45/A43 CJ							1 1 1	1 1 1			
ELS											
Excavation to 0.5m below strut S1	5	14-May-15	19-May-15								
Installation of strut S1	5	20-May-15	26-May-15					 			
Excavation to FEL	5	27-May-15	01-Jun-15								
Box Culvert Structure								, , , ,			
Pile cap construction	10	19-Jun-15	02-Jul-15				1 1 1	 			
Base slab construction including kicker	6	06-Jul-15	11-Jul-15				1	1 1 1 1			
Removal of strut S1	4	13-Jul-15	16-Jul-15				·	 			
Walls & top slab construction	6	03-Aug-15	08-Aug-15				- 1 1 1	 			
Removal of strut S2 & Backfilling up to required level	6	17-Aug-15	22-Aug-15	rel			1 1 1 1	 			
Pile A49/A47 CJ to Pile A47/A45 CJ											
ELS								, , , ,			
Excavation to 0.5m below strut S1	5	20-May-15	26-May-15								
Installation of strut S1	5	27-May-15	01-Jun-15					1 1 1 1			
Excavation to FEL	5	02-Jun-15	06-Jun-15					 			
Box Culvert Structure		I					1 1 1	1 1 1			
Pile cap construction	10	03-Jul-15	14-Jul-15					1 1 1			
Base slab construction including kicker	6	15-Jul-15	21-Jul-15					 			
Removal of strut S1	4	22-Jul-15	25-Jul-15					1 1 1 1			
Walls & top slab construction	6	10-Aug-15	15-Aug-15				 	 			
Pile A52/A49 CJ to Pile A49/A47 CJ								1 1 1			
				1		1		1	1		

ELS Excavation to 0.5m below strut S1 27-May-15 01-Jun-15 5 Installation of strut S1 02-Jun-15 06-Jun-15 5 12-Jun-15 Excavation to FEL 5 08-Jun-15 **Box Culvert Structure** Pile cap construction 22-Jul-15 10 01-Aug-15 Base slab construction including kicker 08-Aug-15 6 03-Aug-15 Removal of strut S1 4 10-Aug-15 13-Aug-15

Page 4 of 15	Planned Bar	TMCLK - Northern Connection Sub-Sea Tunnel Section		Date 12-Feb-14	Revision TMCLK/DBJGEN/PRG/98507 TMCLK/DBJGEN/PRG/98507 Rev.B	Checked WYu	Approved SPo
Project ID: TMCLK DWPF 15W48	Planned Bar - Critical Planned Milestone	Detailed Works Programme (Rev. F)	港	08-Apr-14 28-Aug-14 10-Jun-15	TMCLK/DBJGEN/PRG/98507 Rev.C TMCLK/DBJGEN/PRG/98507 Rev.F	CLa	WYu
Data Date: 28-Feb-16	Progress bar Progress Milestone	Three Months Rolling Programme	HongKong A metbe of the Bouygues Construction group Dragages - Bouygues Joint Venture 寶嘉 - 布依格聯營				
		Progress as of 28-Feb-16					

Activi	y Na	ame	Orig Dur	DWPF Start	DWPF Finish	2015				2016			
		Walls & top slab construction	6	17-Aug-15	22-Aug-15	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
	(Ch150-250 Marine Section	1	J J						 		 	
		ELS & Structure							; ; ; ;	 			
		Cofferdam closing of Ch100-250 Dewatering well installation Ch180-250	28 12	01-Jun-15 19-Jun-15	04-Jul-15					1 1 1 1		 	
		Dewatering well installation Ch100-180	12	06-Jul-15	18-Jul-15	-				1 1 1 1			
		1st Pumping test	18	20-Jul-15	08-Aug-15	-			1 1 1 1	 			
		Toe grouting Ch100-250	95	07-Sep-15	31-Dec-15	1	Toe grouting (Ch100-250	1 1 1	1 1 1 1		 	
		2nd Pumping test Ch100-250	29	02-Jan-16	04-Feb-16			2nd Pump	hing test Ch100-25	 0 			
		Pile A41/A39 CJ to Pile A39/A37 CJ				1							
		ELS											
		Excavation to 0.5m below strut S2 Installation of strut S2	4	05-Feb-16	16-Feb-16				cavation to 0.5m b			1	
		Excavation to 0.5m below strut S1	5	24-Feb-16	29-Feb-16			\		0.5m below stru	(S1		
		Installation of strut S1	5	01-Mar-16	05-Mar-16	1			Installation	of strut S1			
		Excavation to FEL	5	07-Mar-16	11-Mar-16	-			Excavat	tion to FEL		 	
		Box Culvert Structure								 		 	
		Pile cap construction	10	18-Mar-16	01-Apr-16					Pile cap cons			
		Base slab construction including kicker Removal of strut S1	6	15-Apr-16 22-Apr-16	21-Apr-16 26-Apr-16					1	ase slab construct Removal of strut	1	ker
		Sliding formworks 1st assembly	18	22-Apr-16	19-May-16							51 ng formworks 1s	t assembly
		Walls & top slab construction	6	20-May-16	26-May-16							Valls & top slab	
		Pile A39/A37 CJ to Pile A37/A35 CJ						/		 			
		ELS					+		 			r , , ,	
		Excavation to 0.5m below strut S2	4	17-Feb-16	20-Feb-16				kcavation to 0.5m	1 1 1		1	
		Installation of strut S2	6	22-Feb-16 01-Mar-16	27-Feb-16 05-Mar-16			7	Installation of s			1	
		Excavation to 0.5m below strut S1 Installation of strut S1	5	07-Mar-16	11-Mar-16				Excavation	l L	trut S1	1	
		Excavation to FEL	5	12-Mar-16	17-Mar-16	- - - -		 		vation to FEL			
		Box Culvert Structure				-				 		 	
		Pile cap construction	10	02-Apr-16	14-Apr-16	-				Pile c	ap construction	 	
		Base slab construction including kicker	6	22-Apr-16	28-Apr-16	-					Base slab const	Ĩ	kicker
		Removal of strut S1	4	29-Apr-16	04-May-16					[Removal of		
		Walls & top slab construction Pile A37/A35 CJ to Pile A35/A33 CJ	6	27-May-16	02-Jun-16							Walls & top s	lab constructio
		ELS											
		Excavation to 0.5m below strut S2	4	22-Feb-16	25-Feb-16				Excavation to 0.	5m below strut S	2	1	
		Installation of strut S2	6	26-Feb-16	03-Mar-16				Installation c			1	
		Excavation to 0.5m below strut S1	5	07-Mar-16	11-Mar-16				Excavat	tion to 0.5m belo	wstrut S1	r 	
		Installation of strut S1	5	12-Mar-16	17-Mar-16			 	_	llation of strut S		 	
		Excavation to FEL Box Culvert Structure	5	18-Mar-16	23-Mar-16				E	xcavation to FEI		 	
		Pile cap construction	10	15-Apr-16	26-Apr-16						Pile cap construc	tion	
		Base slab construction including kicker	6	29-Apr-16	06-May-16					[Base slab ¢	onstruction inclu	ding kicker
		Removal of strut S1	4	07-May-16	11-May-16					1 1 1 1	Remova	l of strut S1	
		Pile A35/A33 CJ to Pile A33/P117 CJ								1 1 1 1			
		ELS	,	06 F-1 10	01 14					0.5	+00		
		Excavation to 0.5m below strut S2 Installation of strut S2	4	26-Feb-16 02-Mar-16	01-Mar-16 08-Mar-16				Excavation to	0.5m below stru n of strut S2	n 52		
		Excavation to 0.5m below strut S1	5	12-Mar-16	17-Mar-16					vation to 0.5m b	elow strut S1	 	
		Installation of strut S1	5	18-Mar-16	23-Mar-16				_	stallation of stru		 	
		Excavation to FEL	5	24-Mar-16	01-Apr-16					Excavation to	FEL		
		Box Culvert Structure									. 	 	
		Pile cap construction	10	27-Apr-16	09-May-16							onstruction	
		Base slab construction including kicker Removal of strut S1	6	10-May-16 18-May-16	17-May-16 21-May-16					 		slab constructio moval of strut S1	
		Pile A33/P117 CJ to Pile P113/P109 CJ			21 may 10	1				 			
		ELS								1 1 1 1			
		Excavation to 0.5m below strut S1	9	09-Mar-16	18-Mar-16		+		Exc	avation to 0.5m b	elow strut S1	r 1 1	
		Installation of strut S1	5	19-Mar-16	24-Mar-16				– 1	nstallation of stru		 	
		Excavation to FEL	5	02-Apr-16	08-Apr-16					Excavati	on to FEL		
		Base slab construction including kicker	6	18-May-16	24-May-16					- 	В	ase slab constru	ction including
						1		1		l			moruumy
Page	5 of	15 Planned Bar TMCLK - Nort	hern C	onnection Su	ıb-Sea Tunn	el Section					Revision CLK/DBJGEN/PRG/98507 CLK/DBJGEN/PRG/98507	Checked WYu Bey B SPa	Approved SPo WYu
Proje	ct ID	D: TMCLK DWPF 15W48 Planned Bar - Critical Planned Milestone Deta	iled Wo	orks Program	nme (Rev. F)			^香 寶嘉	PAUVAUVA	28-Aug-14 TM	CLKDBJGEN/PRG/98507 CLKDBJGEN/PRG/98507 CLKDBJGEN/PRG/98507	Rev.C CLa	WYu WYu
Data	Date	e: 28-Feb-16 Progress bar Th		onths Rolling I			A member of the Bouygues Co	Dragages HongKong onstruction group	BOUYGUES TRAVAUX PUBLICS				
		Progress Milestone		-	-		Dragages - Bouygue	es Joint Venture 寶嘉	- 布依格聯營				
			Progr	ess as of 28-	rep-16								

vity Name		Orig Dur		DWPF Finish	2015			2016	
Removal of strut S1		4		28-May-16	Dec	Jan Feb	Mar	Apr May	Jun Ju Removal of strut S1
Pile P113/P109 CJ to Pile P105/P101 CJ									
ELS									
Excavation to 0.5m below strut S1		9	17-Mar-16	30-Mar-16				Excavation to 0.5m below strut S	1
Installation of strut S1		5	31-Mar-16	06-Apr-16				Installation of strut S1	
Excavation to FEL		5	09-Apr-16	14-Apr-16				Excavation to FEL	·
Box Culvert Structure									
Base slab construction including kicker		6	25-May-16	31-May-16				-	Base slab constructio
Pile P105/P101 CJ to Pile P97/P93 CJ									
ELS									
Excavation to 0.5m below strut S1		9		08-Apr-16	■ ; ! !		l	Excavation to 0.5m below str	rut S1
Installation of strut S1		5		14-Apr-16				Installation of strut S1	
Excavation to FEL		5	15-Apr-16	20-Apr-16				Excavation to FEL	
Pile P97/P93 CJ to Pile P89/P85 CJ									
ELS				46	,				
Excavation to 0.5m below strut S1		9	07-Apr-16	16-Apr-16				Excavation to 0.5m belo	1
Installation of strut S1 Excavation to FEL		5		22-Apr-16				Excavation to EE	
		~	23-Apr-16	28-Apr-16				Excavation to FE	L
Pile P89/P85 CJ to Pile P81/P77 CJ ELS									
ELS Excavation to 0.5m below strut S1		9	15-Apr-16	25-Apr-16	.			Excavation to 0.5m	
Installation of strut S1		5		25-Apr-16				Excavation to 0.5m	
Excavation to FEL		5		07-May-16				Excavation t	1
Pile P81/P77 CJ to Pile P73/P69 CJ			·····,	VI)FEL
ELS									
ELS Excavation to 0.5m below strut S1		9	23-Apr-16	04-May-16				Excavation to	0.5m below strut S1
Installation of strut S1		5	05-May-16	10-May-16					
Excavation to FEL		5		17-May-16				Excava	
Ch250-380 Marine Section									
Installation of Dewatering & Observation Well Ch 250-380		23	04-Nov-15	30-Nov-15	Installation of	of Dewatering & Observation Well	ch 250-380		
1st Pumping Test & Analysis		17		19-Dec-15		st Pumping Test & Analysis			
Toe Grouting		106	21-Dec-15	07-May-16				Toe Grouting	g
2nd Pumping test & Analysis		25	08-Apr-16	07-May-16					ng test & Analysis
Remaining toe grouting Ch250-380		51	09-May-16	09-Jul-16					
Ch250-320 Prebored H-piles									
Preboring - 16 nos (P49 - P64) - Rig 1		40	03-Sep-15	22-Oct-15	s (P49 - P64) - F	Rig 1			
H-beam installation & Concreting - 16 nos (P49 - P64)		40	07-Sep-15	26-Oct-15	ation & Concretin	ng - 16 nos (P49 - P64)			
Rig 1 Demobilization		0	23-Oct-15		ation				
Ch320-360 Prebored H-piles									
Preboring - 14 nos (C13-C28) - Rig 2		35	14-Sep-15	27-Oct-15	mos (C13-C28) -	- Rig 2			
H-beam installation & Concreting - 14 nos (C13-C28)		35	17-Sep-15	30-Oct-15	allation & Concre	eting - 14 nos (C13+C28)			
Preboring - 6 piles (P9-12, P15-16) - Rig 2		18	28-Oct-15	17-Nov-15	boring - 6 piles ((P9-12, P15-16) - 帛ig 2			
H-beam Installation & Concreting - 6 piles (P9-12, P15-16)		18	31-Oct-15	20-Nov-15		on & Concreting - 6 piles (P9-12,	P15-16)		
Ch380-399 Connection Section									
Foundation & ELS									
Stage 2									
Preboring - 4 nos (C13-C16) - Rig 2		12		28-Nov-15	Preboring - 4	nos (C13-C16) - Rig 2			
H-beam installation & Concreting - 4 nos (C13-C16)		12		02-Dec-15	_	stallation & Concreting - 4 nos (C			
Preboring for sheet piling (middle row north 50%) - Rig 2		18		23-Dec-15		Preboring for sheet piling (middle			
Preboring for sheet piling (west row north 50%) - Rig 2		24		23-Jan-16				ow north 50%) - Rig 2	
Rig 3 Demobilization		0	25-Jan-16			Rig 3 Demobili	ation		
North Launching Shaft									
Design Submission									
(C1) DDA for North Approach Ramp Permanen	nt Structure	28	~ Ort 14	12 Nov 14					
IPs Review		28	23-Oct-14	19-Nov-14					
IP's No Objection Received SO's Review		0 35	23-Oct-14	19-Nov-14 26-Nov-14					
SU's Heview SO Approval with Condition R eceived		0		26-Nov-14 26-Nov-14					
				26-INOV- I+			1		
North Ventilation Shaft									
Construction									
North Ventilation Shaft Excavation & Base Sla	ıb	48	0º Oct-15	04 Dec-15		haft Bottom Base Slab for TBM R	l In the second second		
A - Vent Shaft Bottom Base Slab for TBM Re-launching A - Tympanum construction for TBM break-in/out		36		04-Dec-15 27-Nov-15	_ <u>.</u>				
A- Tympanum construction for Followear-mout			15-066-15	2/-INUV-15	A- Tympanum	n construction for TBM break-in/o	. t		
e 6 of 15		TMCLK - Northern C	Connection S	···h Qaa Tun	Section	. 1		Date Revision 12-Feb-14 TMCLK/DBJGEN/PRG/98507	Checked Ap
Planed	ed Bar ed Bar - Critical							08-Apr-14 TMCLK/DBJGEN/PRG/98507 R 28-Aug-14 TMCLK/DBJGEN/PRG/98507 R	Rev.B SPa WYu Rev.C CLa WYu
ect ID: TMCLK DWPF 15W48 Planned	ed Milestone	Detailed W	Vorks Program	nme (Rev. F	-)	で 連	BOUYGUES TRAVAUX PUBLICS	10-Jun-15 TMCLKDBJGEN/PRG/98507 R	
a Date: 28-Feb-16	ess bar ess Milestone	Three M	Ionths Rolling	Programme)	Hong Kong A member of the Bouygues Construction group Dragages - Bouygues Joint Venture 寶嘉		'	
	S IVIIIeSIONE	1	•	•		Dragages - Bouygues Joint Venture 質品	· 你依格聯當		

Progress bar Progress Milestone

Progress as of 28-Feb-16

<i>v</i> ity Name	Orig	DWPF Start	DWPF					
	Dur		Finish	2015 Dec	Jan Feb	Mar	2016 Apr N	lay Jun J
North Ventilation Shaft - Steel Bell Installation	40	15-Oct-15	02-Dec-15		tion Shaft - Steel Bell Installation			
North Ventilation Shaft - Steel Bell Backfilling for S882 Crossing	12	02-Dec-15	16-Dec-15	North	Ventilation Shaft,- Steel Bell Ba	kfilling for S882	Crossing	
North Ventilation Shaft - Shaft Flooding for S880 Arrival	10	16-Dec-15	30-Dec-15		North Ventilation Shaft - Shaft	Flooding for S88	0Arrival	
North Ventilation Shaft Structure								
NVS - ML03 Tunnel Structure	47	24-May-16	20-Jul-16					
NVS - ML02 Tunnel Structure	44	05-Apr-16	27-May-16	_				NVS - ML02 Tunnel S
	-	00-Api-10	Z7-IViety-10					
TMCLK VO-008 - Construction of Viaduct Foundations at Portion N6A								
Viaduct Pile Cap								
Construction								
Pier G1c								
Pile Cap G1c - Preparation for ELS	6	24-Oct-14	30-Oct-14					
Pile Cap G1c - Removal of Existing ground slab	6	31-Oct-14	06-Nov-14	-				
Pile Cap G1c - Excavation & ELS Installation	12	07-Nov-14	20-Nov-14					
Pile Cap G1c - Blinding Concrete	3	21-Nov-14	24-Nov-14	_				
						1 1 1		
Pile Cap G1c - Rebar & Concreting	18	25-Nov-14	15-Dec-14			1		
Pile Cap G1c - Backfilling & Temp Reinstatement	6	16-Dec-14	22-Dec-14			1 1 1		
Pier H1c								
Pile Cap H1c - Preparation for ELS	6	02-Nov-15	07-Nov-15	H1c - Preparation	h for ELS			
Pile Cap H1c - Removal of Existing ground slab	6	09-Nov-15	14-Nov-15	Çap H1c - Remov	al of Existing ground slab			
Pile Cap H1c - Excavation & ELS Installation	12	16-Nov-15	28-Nov-15	Pile Cap H1c -	Excavation & ELS Installation			
Pile Cap H1c - Blinding Concrete	3	30-Nov-15	02-Dec-15	Pile Cap H1¢	- Blinding Concrete			
Pile Cap H1c - Rebar & Concreting	18	03-Dec-15	23-Dec-15		ile Cap H1c - Rebar & Concreti	na		
						í 	; 	
Pile Cap H1c - Backfilling & Temp Reinstatement	6	24-Dec-15	02-Jan-16		Pile Cap H1c - Backfilling &	remp Reinstaten	nent	
North Surface works for TBM Tunnelling								
Design Submission								
(D1) IFA for Temp. Access to Portion N8A, N8B & N8C incl. Temp. Lighting				1				
ICEApproval & Issue of Desi gn Check Cert.	18	02-May-14	23-May-14					
Check Cert to SO	0		23-May-14					
No Objection or Further Minor Comments from IPs Received	0		23-May-14	-				
SO Review (35 Days)	35	02-May-14	05-Jun-14	_				
		02-11kg-14		_				
SO Approval with Condition R eceived	0		05-Jun-14					
North Approach TBM Tunnelling & Cross Passage								
Method Statement Submission								
Method Statement of Construction Methodology of Cross Passage Excavatio	n							
SO Reviews & Comments	28	01-Feb-15	28-Feb-15	1				
Re-submission	18	02-Mar-15	21-Mar-15					
SO's Review	28	22-Mar-15	18-Apr-15					
SO's Approval	0		18-Apr-15	<u>.</u>		<u>+</u>		
Construction								
Northern Landfall Surface Setup for TBM operation		1						
Gantry Setup at North Ventilation Shaft	48	08-Oct-15	04-Dec-15	Gantry Setu	p at North Ventilation Shaft			
Gantry Removal at North Ventilation Shaft	24	02-Jan-16	29-Jan-16		Gantry Remo	oval at North Vent	lation Shaft	
North Approach TBM Tunnel - NB ID15.60m - S880						1		
NB - North TBM Tunnel - Transition with Saturation (Ch6708 to 6688 - 20m)	6	22-Nov-15	28-Nov-15	NB - North TB	M Tunnel - Transition with Satura	tion (Ch6708 to 6	688 - 20m)	
NB - North TBM Tunnel - Transition with Saturation (Ch6688 to 6640 - 48m)	14	28-Nov-15	12-Dec-15	NB-N	orth TBM Tunnel + Transition wit	Saturation (Ch6	688 to 6640 - 48m)	
NB - North TBM Tunnel - CDG+Boulder with Saturation (Ch6640 to 6600 - 40m)	8	12-Dec-15	20-Dec-15		- North TBM Tunnel - CDG+Bo			m)
NB - North TBM Tunnel - CDG with Saturation (Ch6600 to 6560 - 40m)	5	20-Dec-15	25-Dec-15	_	NB - North TBM Tunnel - CDG v			
						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
NB - North TBM Tunnel - Thrust Frame Removal	12	19-Aug-15	02-Sep-15	ioval				
North Approach TBM Tunnel - SB ID12.40m - S882								
SB - North TBM Tunnel - Transition with Saturation (Ch6861 to 6729 - 132m)	63	03-Oct-15	05-Dec-15	SB - North	TBM Tunnel - Transition with Sa	uration (Ch6861	to 6729 - 132m)	
SB - North TBM Tunnel - Transition with Saturation (Ch6729 to 6709 - 20m)	5	05-Dec-15	10-Dec-15	SB - Nor	th TBM Tunnel - Transition with	βaturation (Ch672	29 to 6709 - 20m)	
SB - North TBM Tunnel - Transition with Saturation (Ch6709 to 6661 - 48m)	11	10-Dec-15	21-Dec-15	SB	- North TBM Tunnel - Transitio	with Saturation (Ch6709 to 6661 + 48m)	
SB - North TBM Tunnel - Transition with Saturation (Ch6661 to 6621 - 40m)	8	21-Dec-15	29-Dec-15		SB - North TBM Tunnel - Tran	ition with Saturat	ion (Ch6661 to 6621 - 40	m)
SB - North TBM Tunnel - Transition with Saturation (Ch6621 to 6581 - 40m)	5	29-Dec-15	03-Jan-16		SB - North T;BM Tunnel - Tr			
	Ŭ					i i i		
North Approach Tunnel Internal Structure - NB								
NB - North TBM Tunnel - Invert Backfilling (Ch7175 to 6870 - 305m) Stage 1	87	10-Sep-15	06-Dec-15	NB - North	TBM Tunnel - Invert Backfilling	Ch7175 to 6870	305m) Stage 1	
NB - North TBM Tunnel - Invert Backfilling (Ch6870 to 6688 - 182m) Stage 1	77	06-Dec-15	24-Feb-16			NB - North TBM	Tunnel - Invert Backfillir	g (Ch6870 to 6688 - 182m) Stag
NB - North TBM Tunnel - Invert Backfilling (Ch6688 to 6560 - 128m) Stage 1	54	01-Apr-16	26-May-16				>	NB - North TBM Tunne
NB - North TBM Tunnel - Invert Precast Gallery Installation (Ch7205 to 6870 - 335m)	96	24-Sep-15	29-Dec-15		NB - North TBM Tunnel - Inve	Precast Gallery	Installation (Ch7205 to 6	870 - 335m)
NB - North TBM Tunnel - Invert Precast Gallery Installation (Ch6870 to 6688 - 182m)	77	29-Dec-15	18-Mar-16			NB	North TBM Tunnel - Inv	ert Precast Gallery Installation (
NB - North TBM Tunnel - Invert Precast Gallery Installation (Ch6688 to 6560 - 128m)	54	13-Apr-16	07-Jun-16					NB - North TBM
								UID - NORTH I BN
NB - North TBM Tunnel - Invert Backfilling (Ch7205 to 7175 - 30m) Stage 2	9	15-Oct-15	24-Oct-15	Tunnel - Invert Ba	ckfilling (Ch7205 to 7175 - 30m	Stage 2		
NB - North TBM Tunnel - Invert Backfilling (Ch7175 to 7125 - 50m) Stage 2	15	24-Oct-15	08-Nov-15	rth TBM Tunnel - I	nvert Backfilling (Ch7175 to 712	5 - 50m) Stage 2		
				<u>.</u>				;
7 of 15 Planned Bar TMCLK - No.	rthern C	Connection St	ub-Sea Tun	nel Section			12-Feb-14 TMCLK/DBJGE	
Planned Bar - Critical			(D	-,	▲電露		28-Aug-14 TMCLK/DBJGE	N/PRG/98507 Rev. B SPa WYu N/PRG/98507 Rev. C CLa WYu N/PRG/98507 Rev. F WYu
	alled Wo	orks Program	nme (Rev. F	-)	Dragages	BOUYGUES TRAVAUX PUBLICS	INIGENUBUGE	
Date: 28-Feb-16 Progress bar	hree Mo	onths Rolling	Programme	9	Hong Kong A member of the Bouygues Construction group			
Progress Milestone			-	-	Dragages - Bouygues Joint Venture 寶嘉 ·	布依格聯營		

Progress as of 28-Feb-16

Activit	y Name	Orig	DWPF Start	DWPF		·				
ACTIVIT	y Name	Dur	DWFF Start	Finish	2015		2016	Mari	h un	
	NB - North TBM Tunnel - Invert Backfilling (Ch7125 to 7075 - 50m) Stage 2	15	08-Nov-15	23-Nov-15	Dec NB - North TBM T	Jan Feb unnel - Invert Backfilling (Ch712	Mar Apr 5 to 7075 - 50m) Stage 2	May	Jun	Jul
	NB - North TBM Tunnel - Invert Backfilling (Ch7075 to 7025 - 50m) Stage 2	15	23-Nov-15	08-Dec-15	NB - North	n TBM Tunnel - Invert Backfilling	(Ch7075 to 7025 - 50m) Stage 2			
	NB - North TBM Tunnel - Invert Backfilling (Ch7025 to 6975 - 50m) Stage 2	14	08-Dec-15	22-Dec-15			ckfilling (Ch7025 to 6975 - 50m) \$			
	NB - North TBM Tunnel - Invert Backfilling (Ch6975 to 6925- 50m) Stage 2	14	22-Dec-15	05-Jan-16			vert Backfilling (Ch6975 to 6925-	-		
	NB - North TBM Tunnel - Invert Backfilling (Ch6925 to 6870 - 55m) Stage 2	14	05-Jan-16	19-Jan-16			nnel - Invert Backfilling (Ch6925 t		age 2	
	NB - North TBM Tunnel - Invert Backfilling (Ch6870 to 6688 - 182m) Stage 2	77	19-Jan-16	11-Apr-16	-			orth TBM Tunnel -	-	n (Ch6870 to 6)
	NB - North TBM Tunnel - Invert Backfilling (Ch6688 to 6560 - 128m) Stage 2	54	28-Apr-16	23-Jun-16						
	CP53 - Excavation & Lining completion	0	20-741-10	16-Mar-16						IB - North TBN
							CP53 - Excavation &			
	CP52 - Excavation & Lining completion	0		22-Apr-16			• C	P52 - Excavation	& Lining comple	tion
	North Approach Tunnel Internal Structure - SB	i		-						
	SB - North TBM Tunnel - Invert Backfilling (Ch7025 to 6975 - 50m)	12	26-Nov-15	08-Dec-15	SB - North	TBM Tunnel - Invert Backfilling	(Ch7025 to 6975 - 50m)			
	SB - North TBM Tunnel - Invert Backfilling (Ch6975 to 6925- 50m)	12	08-Dec-15	20-Dec-15	SB	- North TBM Tunnel - Invert Bac	kfilling (Ch6975 to 6925- 50m)			
	SB - North TBM Tunnel - Invert Backfilling (Ch6925 to 6870 - 55m)	12	20-Dec-15	01-Jan-16		SB - North TBM Tunnel - Inv	rt Backfilling (Ch6925 to 6870 - 5	ōm)		
	SB - North TBM Tunnel - Invert Backfilling (Ch6870 to 6688 - 182m)	77	01-Jan-16	21-Mar-16			SB - North TBM Tu	nnel - Invert Back	tfilling (Ch6870 t	o 6688 - 182m)
	SB - North TBM Tunnel - Invert Backfilling (Ch6688 to 6560 - 128m)	54	21-Mar-16	18-May-16				SB -	North TBM Tunr	nel - Invert Bacl
	North Approach Cross Passage									
	CP55 - Traditional Method									
	CP Setup	6	21-Mar-16	31-Mar-16			CP Setup			
	1st Segment Opening	7	31-Mar-16	09-Apr-16			1st Segr	hent Opening		
	CP Excavation	14	09-Apr-16	26-Apr-16				CP Excavation		
	CP Lining	14	26-Apr-16	13-May-16				CP Lin	ng	
	2nd Segment Opening	7	13-May-16	23-May-16				21	nd Segment Ope	hing
	CP Finishing & Demobilization	18	23-May-16	14-Jun-16					CP Fi	nishing & Demo
	CP54 - Traditional Method									
	CP54 Platform Available from ML03 North Approach Tunnel Backfilling	0	08-Dec-15		🔶 CP54 Plat	form Available from ML03 North	Approach Tunnel Backfilling			
	CP Setup	6	14-Jun-16	21-Jun-16						P Setup
	1st Segment Opening	7	21-Jun-16	29-Jun-16	-					1st Segment
	CP Excavation	14	29-Jun-16	16-Jul-16						СР
	CP53 - Pipe Jacking Method									
	CP53 Platform Available from ML03 North Approach Tunnel Backfilling	0	05-Jan-16		i 	CP53 Platform Available fr	om ML03 North Approach Tunnel	Backfilling		
	CP53 Platform Available from ML02 North Approach Tunnel Backfilling	0	21-Dec-15				North Approach Tunnel Backfillir	-		
	CP - Pipe Jacking TBM - Delivery, Assembly & Setup	23	05-Jan-16	01-Feb-16			acking TBM - Delivery, Assembly			
	CP - Pipe Jacking Method - Break-in, Excavation & Lining Installation	9	01-Feb-16	10-Feb-16			pe Jacking Method - Break-in, Ex		Installation	
	CP - Pipe Jacking Method - Break out & Pipe Jacking TBM Removal	10	10-Feb-16	20-Feb-16		\sim				
		21	20-Feb-16	16-Mar-16			P - Pipe Jacking Method - Break o			
	CP - Waterproofing, Finishing	21	20-Fe0-16	10-10141 - 10			CP - Waterproofing, F	inisning		
	CP52 - Pipe Jacking Method		00 1 40						C 111	
	CP52 Platform Available from ML03 North Approach Tunnel Backfilling	0	30-Jan-16				h Available from ML03 North App		ktilling	
	CP52 Platform Available from ML02 North Approach Tunnel Backfilling	0	12-Jan-16			CP52 Platform Availab	e from ML02 North Approach Tun			
	CP - Pipe Jacking TBM - Delivery, Assembly & Setup	23	01-Feb-16	05-Mar-16			CP - Pipe Jacking TBM - D			
	CP - Pipe Jacking Method - Break-in, Excavation & Lining Installation	9	05-Mar-16	14-Mar-16			CP - Pipe Jacking Met	nod - Break-in, Ex	cavation & Linin	g Installation
	CP - Pipe Jacking Method - Break out & Pipe Jacking TBM Removal	10	14-Mar-16	24-Mar-16			CP - Pipe Jackin	g Method - Break	out & Pipe Jacki	ng TBM Remov
	CP Finishing & Demobilization	21	24-Mar-16	22-Apr-16			c	P Finishing & De	mobilization	
	CP51 - Traditional Method									
	CP51 Platform Available from ML03 North Approach Tunnel Backfilling	0	31-Mar-16		L		CP51 Platforr	h Available from	ML03 North Appr	oach Tunnel Ba
	CP51 Platform Available from ML02 North Approach Tunnel Backfilling	0	10-Mar-16				CP51 Platform Available	from ML02 North	Approach Tunne	Backfilling
	CP50 - Pipe Jacking Method									
	CP50 Platform Available from ML03 North Approach Tunnel Backfilling	0	16-May-16					♦ CP50	Platform Availat	le from ML03 I
	CP50 Platform Available from ML02 North Approach Tunnel Backfilling	0	09-Apr-16				CP50 PI	atform Available f	rom ML02 North	Approach Tunr
	CP Setup	23	16-May-16	11-Jun-16					CP Setu	qu
	CP - Pipe Jacking Method - Break-in, Excavation & Lining Installation	9	12-Jun-16	21-Jun-16					C C	P - Pipe Jackin
	North Ventilation Building									
	Design Submission									
	(A11) Submissons to Design Advisory Panel of ArchSD									
	ArchSD's comment	30	10-Jun-14	09-Jul-14						
	(I1) DDA for North Vent.Bldgs. GBP & Arch.Submission						L			
	Designer to Reply RtC + Update Submission	21	28-Jul-14	20-Aug-14						
	Submit Updated DDA to SO/ ICE/ IPs	0	21-Aug-14							
	ICEApproval & Issue Check Cert	12	21-Aug-14	03-Sep-14						
	Submit ICE Check Cert to SO	6	04-Sep-14	11-Sep-14	-					
	IPs Review	28	21-Aug-14	17-Sep-14			· · · · · · · · · · · · · · · · · · ·			
	IP's No Objection Received	0		17-Sep-14	-					
	SO's Review	35	21-Aug-14	24-Sep-14						
	SO Approval with Condition R eceived	0		24-Sep-14	_					
					1		6			
Page	8 of 15 Planned Bar TMCLK - N	orthern C	onnection Su	ub-Sea Tunr	nel Section			Revision CLK/DBJ/GEN/PRG/98507		Approved SPo
Project	Planned Bar - Critical					正容 重	28-Aug-14 TM	CLK/DBJGEN/PRG/98507 CLK/DBJGEN/PRG/98507 CLK/DBJGEN/PRG/98507	Rev.C CLa	WYu WYu
-		etailed Wo	orks Program	nme (Rev. F)	港貝茄 Dragages HongKong	BOUYGUES			·
Data I	Date: 28-Feb-16 Progress bar	Three Mo	onths Rolling	Programme		A member of the Bouygues Construction group Dragages - Bouygues Joint Venture 寶嘉 -	布依格聯營			
		Progr	ess as of 28-	-Feb-16						
L	I	i i ogi	200 40 01 20				I			

ty Name		DWPF Start	DWPF								
	Orig Dur		Finish	2015	lan	L Fab	Mar	2016	Maria	l hur	l lul
(I1) DDA for North & South Vent.Bldg. ABWF works				Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Preparation of DDANorth & SouthABWF	18	25-Sep-14	17-Oct-14	 		 -	, , ,		 	, , ,	
Review & Comment by JV	24	18-Oct-14	14-Nov-14			1	1		8	1	
Designer prepare DDA	15	15-Nov-14	02-Dec-14								
Formal Submission of DDA to ICE/ IPs	0		02-Dec-14								
Advanced Submission to SO	0		02-Dec-14	i 1							
IPs/ SO's Advance Comments/ ICE Comments	28	03-Dec-14	30-Dec-14				1		1 1 1	1	
(I2) DDA for North Vent.Bldgs.Structural Design incl.Vent.Connections									1 1 1	1 1 1	
Designer to Reply RtC + Update Submission	21	29-Nov-14	23-Dec-14							1 1 1	
Submit Updated DDA to SO/ ICE/ IPs	0	24-Dec-14							1	1	
ICEApproval & Issue Check Cert	12	24-Dec-14	09-Jan-15								
Submit ICE Check Cert to SO	6	10-Jan-15	16-Jan-15						 		
IPs Review	28	24-Dec-14	20-Jan-15							, 1 1 1	
IP's No Objection Received	0		20-Jan-15						- 1 1 1	1 1	
SO's Review	35	24-Dec-14	27-Jan-15						1 1 1	1 1 1	
SO Approval with Condition R eceived	0		27-Jan-15						1 1 1	1 1 1	
(I3) DDA for North & South Vent.Bldgs. Service and E&M Provision									 	 	
Review & Comment by JV	24	06-Oct-14	01-Nov-14						1 1 1	1 1 1	1 1 1
									1	1	
Designer prepare DDA	15	03-Nov-14	19-Nov-14						8	1	1
Formal Submission of DDA to ICE/ IPs	0		19-Nov-14								
Advanced Submission to SO	0		19-Nov-14							 	
IPs/ SO's Advance Comments/ ICE Comments	28	20-Nov-14	17-Dec-14							 	
Comments Received	0		17-Dec-14								
Designer to Reply RtC + Update Submission	21	18-Dec-14	14-Jan-15						 	1 1	
Submit Updated DDA to SO/ ICE/ IPs	0	15-Jan-15		i i			1		- 1 1 1	1 1	
ICEApproval & Issue Check Cert	12	15-Jan-15	28-Jan-15				1 1 1		1 1 1	1	
Submit ICE Check Cert to SO	6	29-Jan-15	04-Feb-15	 		 -	 	 	 	 	
IPs Review	28	15-Jan-15	11-Feb-15						1 1 1	1 1 1	
IP's No Objection Received	0		11-Feb-15						1 1 1	1 1 1	
SO's Review	35	15-Jan-15	18-Feb-15				1 1 1			1 1 1	
		13-041-13				1	1		8	1	
SO Approval with Condition R eceived	0		18-Feb-15							, , , ,	
(C3) DDA for North Vent Shaft & Duct Permanent Structure											
Designer to Reply RtC + Update Submission	21	29-Oct-14	21-Nov-14						 		
Submit Updated DDA to SO/ ICE/ IPs	0	22-Nov-14					1 1 1		- 1 1 1	1 1	
ICEApproval & Issue Check Cert	12	22-Nov-14	05-Dec-14						1 1 1	1 1 1	
Submit ICE Check Cert to SO	6	06-Dec-14	12-Dec-14				1 1 1		1 1 1	1 1 1	
IPs Review	28	22-Nov-14	19-Dec-14				+		 	+ 	
IP's No Objection Received	0		19-Dec-14	1		1	1		8	1	
SO's Review	35	22-Nov-14	26-Dec-14				1		1	1	
SO Approval with Condition R eceived	0		27-Dec-14								
North Surface Roadworks, Utility & Drainage works											
Design Submission						; 	i +			; +	
(A20) DDA for Traffic Sign, Road Marking, Street Furnitures, Sign Gantry & etc							1 1 1		1	1 1 1	
SO's Review	35	11-Dec-14	14-Jan-15						1 1 1	1 1 1	
SO Approval with Condition R eceived	0		14-Jan-15							1 1 1	
			14-Jail-15			1	1 1 1		1 1 1	1 1 1	
(C2) DDA for Sewerage, Drainage, Waterworks & Utility works for North Landfa			07.7				, , , ,			, , , , ,	
IPs Review	28	08-Nov-14	05-Dec-14						1 1	 	
IP's No Objection Received	0		05-Dec-14	1			1 1		I I I		
SO's Review	35	08-Nov-14	12-Dec-14				1 1 1		1 1 1	1 1 1	
SO Approval with Condition R eceived	0		12-Dec-14	1			1 1 1			1 1 1	
Sub-sea Tunnel							1 1 1		1 1 1	1 1 1	
Sub-sea TBM Tunnelling							• ! !		 	+ ! !	
Major Procurement							1 1 1		1 1 1	1 1 1	
Precast Semgnet ID12.40 - Production for Sub-sea TBM Tunnel							1 1 1			1 1 1	
ID 12.40 TBM Segment Ring Fabrication - 12 rings per day	300	22-Nov-14	19-Dec-15	¦ ID1	2.40 TBM Segm	ent Ring Fabrica	ation - 12 rings pe	r day	1 1 1	1 1 1	
Design Submission					Ĵ				1 1 1 1	1 1 1	
(B6) Risk Assessment of Submarine Cable - Tunnelling Works											

Design Submission

Design Submission					
(B6) Risk Assessment of Submarine Cable - Tunnelling Works					
CLP Review (4 weeks) 28 17-Mar-15 13-Apr-15					
CLP Comment Received 0 13-Apr-15					
SO's Condition Approval 35 12-Mar-15 15-Apr-15					
(G1) DDA for TBM Tunnel Lining Structural Design - Sub-sea tunnel					
Sub-sea TBM Tunnel Segment - Fabrication 265 06-Oct-14 29-Aug-15					
(G3) DDA for TBM Tunnel Internal Structures (Sub-sea)					

Page 9 of 15	Planned Bar	TMCLK - Northern Connection Sub-Sea Tunnel Section		Date 12-Feb-14	Revision TMCLK/DBJ/GEN/PRG/98507	Checked WYu	Approved SPo
Project ID: TMCLK DWPF 15W48	Planned Bar - Critical Planned Milestone 	Detailed Works Programme (Rev. F)	▲ 建寶嘉 Dragages	08-Apr-14 28-Aug-14 10-Jun-15	TMCLK/DBJGEN/PRG/98507 Rev. B TMCLK/DBJGEN/PRG/98507 Rev. C TMCLK/DBJGEN/PRG/98507 Rev. F	CLa	WYu WYu
Data Date: 28-Feb-16	 Progress bar Progress Milestone 	Three Months Rolling Programme	HongKong A mether of the Boorygues Construction group Dragages - Bourygues Joint Venture 寶嘉 - 布依格聯營				
		Progress as of 28-Feb-16					

tivity Name	Orig	DWPF Start	DWPF	2015
	Dur		Finish	2015 2016 Dec Jan Feb Mar Apr May Jun Jul
Sub-sea Tunnel - Precast Gallery Fabrication	244	22-Jan-15	21-Nov-15	ub-sea Tunnel - Precast Gallery Fabrication
Construction				
Sub-sea TBM Tunnel - NB ID12.2m - S881				
NB TBM Change diameter at North Ventilation Shaft	87	30-Dec-15	01-Apr-16	NB TBM Change diameter at North Ventilation Shaft
NB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6522 to 6500 - 22m)	5	01-Apr-16	06-Apr-16	NB - Sub-sea TBM Tunnel - Transition with Saturation (Che
NB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6500 to 6430 - 70m)	15	06-Apr-16	21-Apr-16	Nβ - Sub-sea TBM Tunnel - Transition with Satural
NB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6430 to 6350 - 80m)	17	21-Apr-16	08-May-16	NB - Sub-sea TBM Tunnel - Transition w
NB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6350 to 6300 - 50m)	10	08-May-16	19-May-16	NB- Sub-sea TBM Tunnel - Transi
NB - Sub-sea TBM Tunnel - CDG+Boulder with Saturation (Ch6300 to 6260 - 40m)	5	19-May-16	24-May-16	NB - Sub-sea TBM Tunnel - CD(
NB - Sub-sea TBM Tunnel - CDG with Saturation (Ch6260 to 6240 - 20m)	2	24-May-16	26-May-16	NB - Sub-sea TBM Tunnel - CE
NB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6240 to 6175 - 65m)	11	26-May-16	06-Jun-16	NB - Sub-sea TBM Tunne
Sub-sea TBM Tunnel - SB ID12.2m - S882				
SB - S882 TBM Crossing within NVS Steel bell	7	03-Jan-16	10-Jan-16	SB - S882 TBM Crossing within NVS Steel bell
SB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6543 to 6521 - 22m)	5	10-Jan-16	15-Jan-16	SB - Sub-sea TBM Timel - Transition with Saturation (Ch6543 to 6521 - 22m)
SB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6521 to 6451 - 70m)	15	15-Jan-16	30-Jan-16	SB - Sub-see TBM Tunnel - Transition with Saturation (Ch6521 to 6451 - 70m)
SB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6451 to 6371 - 80m)	17	30-Jan-16	19-Feb-16	S8 - Sub-sea TBM Tunnel - Transition with Saturation (Ch6451 to 6371 - 80m)
SB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6371 to 6321 - 50m)	10	19-Feb-16	29-Feb-16	SB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6371 tb 6321 - 50m)
SB - Sub-sea TBM Tunnel - CDG+Boulder with Saturation (Ch6321 to 6281 - 40m)	5	29-Feb-16	05-Mar-16	SB - Sub-sea TBM Tunnel - CDG+Boulder with Saturation (Ch6321 to 6281 -
SB - Sub-sea TBM Tunnel - Steel Bell dismantling & Reconnect for NVS supply	27	05-Mar-16	04-Apr-16	SB - Sub-séa TBM Tunnel - Şteel Bell dismantling & Reconr
SB - Sub-sea TBM Tunnel - CDG with Saturation (Ch6281 to 6261 - 20m)	2	04-Apr-16	06-Apr-16	SB - Sub-sea TBM Tunnel - CDG with Saturation (Ch6281
SB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6261 to 6196 - 65m)	- 11	06-Apr-16	17-Apr-16	SB - Sub-sea TBM Tynnel - Transition with Saturatio
SB - Sub-sea TBM Tunnel - CDG+Boulder with Saturation (Ch6196 to 6156 - 40m)	5	17-Apr-16	22-Apr-16	SB - Sub-sea TBM Tunnel - CDG+Boulder with S
SB - Sub-sea TBM Turnel - CDG with Saturation (Ch6156 to 6121 - 35m)	3	22-Apr-16	25-Apr-16	SB - Sub-sea TBM Tunnel - CDG with Saturation
SB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6121 to 6071 - 50m)	9	25-Apr-16	04-May-16	SB - Sub-sea TBM Turnel - C DIG with Saurator
SB - Sub-sea TBM Tunnel - CDG+Boulder with Saturation (Ch6021 to 6031 - 40m)	5	04-May-16	09-May-16	SB - Sub-sea TBM Turinei - CDG+Bould
SB - Sub-sea TBM Turinel - CDG+Bourder with Saturation (Ch607 + to 6031 - 4011) SB - Sub-sea TBM Turinel - CDG with Saturation (Ch6031 to 5851 - 180m)	14	09-May-16	24-May-16	SB - Sub-sea TBM Tunnel - CDG+BOUID
SB - Sub-sea TBM Tunnel - CDG with Saturation (Che031 to 5831 - 180m) SB - Sub-sea TBM Tunnel - CDG+Boulder with Saturation (Ch5851 to 5831 - 20m)	14	09-May-16 24-May-16	24-May-16 26-May-16	
	12			SB - Sub-sea TBM Tunnel - CD
SB - Sub-sea TBM Tunnel - Transition with Saturation (Ch5831 to 5761 - 70m)	12	26-May-16	07-Jun-16	SB - Sub-sea TBM Tunn
Sub-sea TBM Tunnel - NB - Precast Invert Gallery	10	00.14	44.1.15	
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP48	16	26-May-16	11-Jun-16	NB - Sub-sea TBM Tur
Sub-sea TBM Tunnel - SB - Precast Invert Gallery				
SB - ISIG Assembly for Sub-sea TBM Tunnel	7	15-Jan-16	22-Jan-16	SB - ISIG Assembly for Sub-sea TBM Tunnel
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP48	14	04-Apr-16	18-Apr-16	SB Sub-sea TBM Tunnel - Precast Invert Gallery -
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP47	11	18-Apr-16	29-Apr-16	SB - Sub-sea TBM Tunnel - Precast Invert Gal
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP46	11	29-Apr-16	10-May-16	SB - Sub-sea TBM Tunnel - Precast Inve
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP45	8	10-May-16	19-May-16	SB - Sub-sea TBM Tunnel - Precas
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP44	8	19-May-16	27-May-16	SB - Sub-sea TBM Tunnel - Pr
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP43	15	27-May-16	11-Jun-16	SB - Sub-sea TBM Tur
Sub-sea Tunnel Cross Passage & Internal Structure				
Design Submission				
(G4) DDA for Cross Passage - Permanent works - incl. Geotechnical Assessmer	nt - Sub	-sea tunnel		
Review & Comment by JV	6	01-Dec-14	06-Dec-14	
Designer prepare DDA	12	08-Dec-14	20-Dec-14	
Formal Submission of DDA to ICE/ IPs	0	_	20-Dec-14	
Advanced Submission to SO	0		20-Dec-14	
IPs/ SO's Advance Comments/ ICE Comments	28	21-Dec-14	17-Jan-15	
Comments Received	0		17-Jan-15	
Designer to Reply RtC + Update Submission	21	19-Jan-15	11-Feb-15	
Submit Updated DDA to SO/ ICE/ IPs	0	12-Feb-15		
ICEApproval & Issue Check Cert	12	12-Feb-15	04-Mar-15	
Submit ICE Check Cert to SO	6	05-Mar-15	11-Mar-15	
IPs Review	28	12-Feb-15	11-Mar-15	
IP's No Objection Received	0		11-Mar-15	
SO's Review	35	12-Feb-15	18-Mar-15	
SO Approval with Condition R eceived	0		18-Mar-15	
(H1) DDA Temp.works for Cross Passages - Sub-sea tunnel (Type D)				
Designer to Reply RtC + Update Submission	21	11-Nov-15	04-Dec-15	Designer to Reply RtC + Update Submission
Submit Updated DDA to SO/ ICE/ IPs	0	05-Dec-15		Submit Updated DDAto SO/ ICE/ IPs
	12		18-Dec-15	
ICEApproval & Issue Check Cert		05-Dec-15		ICEApproval & Issue Check Cert
Submit ICE Check Cert to SO	6	19-Dec-15	28-Dec-15	Submit ICE Chèck Cert to SO
IPs Review	28	05-Dec-15	01-Jan-16	IPs Review
IP's No Objection Received	0		01-Jan-16	IP's No Objection Received
SO's Review	35	05-Dec-15	08-Jan-16	SO's Review

Page 10 of 15	Planned Bar	TMCLK - Northern Connection Sub-Sea Tunnel Section	Date 12-Feb-14	Revision TMCLK/DBJGEN/PRG/98507	Checked WYu	Approved SPo
Project ID: TMCLK DWPF 15W48 Data Date: 28-Feb-16	 Planned Bar - Critical Planned Milestone Progress bar Progress Milestone 	Detailed Works Programme (Rev. F) Three Months Rolling Programme	08-Apr-14 28-Aug-14 10-Jun-15	TMCLK0BJGENPRG98507 Rev.B TMCLK0BJGENPRG98507 Rev.C TMCLK0BJGENPRG98507 Rev.F	CLa	WYu WYu
		Progress as of 28-Feb-16				

Activi	ty Name	Orig	DWPF Start	DWPF	0015			0010			
		Dur		Finish	2015 Dec	Jan Feb	Mar	2016 Apr	May	Jun	Jul
	SO Approval with Condition R eceived	0		08-Jan-16		SO Approval with Condition	n Received				
	ETWB TCW No 15/2005 - Cross Passage Ground Treatment for Sub-sea TBM								1 1 1	1 1 1	
	1st Submission to GEO - ETWB TCW No 15/2005 - Cross Passage Ground Treatment for Sub-sea TBM Tunnel	0		13-Jul-15	und Treatment fo	r Sub-sea TBM Tunnel				- 1 1 1	
	1st Submission GEO Review	28	14-Jul-15	10-Aug-15	-					1	
	Received GEO Comment	0		10-Aug-15							
	Prepare Response to Comment	12	11-Aug-15	24-Aug-15	-				1	1	
	2nd Submission to GEO	0		24-Aug-15	-					1 1 1 1	
	2nd GEO Review	28	25-Aug-15	21-Sep-15						1 1 1	
	Received 2nd GEO Comment	0		21-Sep-15	-					1	
	Prepare Respond to 2nd Comment	12	22-Sep-15	07-Oct-15	Comment				; {		
	3rd Submission to GEO	0		07-Oct-15	-					1 1 1	
	3rd GEO Review	28	08-Oct-15	04-Nov-15	Review						
	Method Statement Submission				1					- 1 1 1	
	Method Statement of Cross Passage Formwork	05	10 14-15		-						
	Preparation Method Statement for CP Formwork	25	19-Mar-15	21-Apr-15						, , ,	
	Southern Landfall								1		
	South Cut & Cover Tunnel									- 1 1 1	
	Design Submission		_								
	(E2) DDA for South C&C Box & Approach Ramp	10	00 Dec 14	21 Dec 11					1 1 1	1 1 1	
	Review & Comment by JV	18	09-Dec-14	31-Dec-14	 					, , , ,	
	Designer prepare DDA	10	02-Jan-15	13-Jan-15	1					, 	
	Formal Submission of DDAto ICE/ IPs	0		13-Jan-15					1 1 1	1 1 1	
	Advanced Submission to SO	0		13-Jan-15	1						
	IPs/SO's Advance Comments/ICE Comments	28	14-Jan-15	10-Feb-15	1					1 1 1	
	Comments Received	0		10-Feb-15					; ; {		
	Designer to Reply RtC + Update Submission	21	11-Feb-15	13-Mar-15	1					1	
	Submit Updated DDAto SO/ ICE/ IPs	0	14-Mar-15								
	ICEApproval & Issue Check Cert	18	14-Mar-15	08-Apr-15					1 1 1	- 1 1 1	
	IPs Review	28	14-Mar-15	10-Apr-15	1 1 1					1	
	SO's Review	35	14-Mar-15	17-Apr-15							
	ETWB TCW No. 15/2005 - Geotechnical Risk Assessment C&C Tunnels at So		ndfall	· · · · ·-						1	
	1st Submission to GEO - ETWB TCW No. 15/2005 - Geotechnical Risk Assesment C&C Tunnels at Souththern Land			11-Jun-15	Tunnels at South	thern Landfall					
	1st Submission GEO Review	28	12-Jun-15	09-Jul-15						 	
	Received GEO Comment	0		09-Jul-15	-					1	
	Prepare Response to Comment	12	10-Jul-15	23-Jul-15						, , ,	
	2nd Submission to GEO	0		23-Jul-15	1				1 1 1	1 1 1	
	2nd GEO Review	28	24-Jul-15	20-Aug-15						1 1 1 1	
	(F3) AIP Temp.Support for South.C&C, Portal & ELS		10.1.15	00 E 15	1				1 1 1	1 1 1	1 1 1
		28	10-Jan-15	06-Feb-15	-						
	IP's No Objection Received	0	10 1 15	06-Feb-15	¦				¦	, , ,	
	SO's Review	35	10-Jan-15	13-Feb-15	-						
	SO Approval with Condition R eceived	0		13-Feb-15					1 1 1	- 1 1 1	
	(F3) DDA Temp.Support for South.C&C, Portal & ELS	10	01 4 4 45	05 Aug 45						1	
	Preparation of DDA South C&C ELS	18	01-Apr-15	25-Apr-15						- 	
	Review & Comment by JV	18	27-Apr-15	18-May-15	 					, , , ,	
	Designer prepare DDA	10	19-May-15	30-May-15						, 1 1 1	
	Formal Submission of DDAto ICE/ IPs	0		30-May-15	-				1 1 1	1 1 1	
	Advanced Submission to SO	0	01 14- 15	30-May-15						1 1 1 1	
	IPs/SO's Advance Comments/ICE Comments	28	31-May-15	27-Jun-15					1 1 1	1 1 1	
	Comments Received	0	00 1	27-Jun-15	l	 				 	
	Designer to Reply RtC + Update Submission	21	29-Jun-15	23-Jul-15						 	
	Submit Updated DDAto SO/ ICE/ IPs	0	24-Jul-15	06 Aug 17						1 1 1	
	ICEApproval & Issue Check Cert	12	24-Jul-15	06-Aug-15	-						
	Submit ICE Check Cert to SO	6	07-Aug-15	13-Aug-15	-					 	
	IPs Review	28	24-Jul-15	20-Aug-15	ļ					 	
	IP's No Objection Received	0	04.6445	20-Aug-15						, 	
	SO's Review	35	24-Jul-15	27-Aug-15	-					1 1 1	
	SO Approval with Condition R eceived	0		27-Aug-15							
	ETWB TCW No 15/2005 - ELS Design for C&C Tunnel at Southern Landfall	^		06 4						- 	
	1st Submission to GEO - ETWB TCW No 15/2005 - ELS Design for C&C Tunnel at Southern Landfall	0	07 4 15	06-Aug-15	esign for C&C Tu	unnel at Southern Landfall				, , , ,	
	1st Submission GEO Review	28	07-Aug-15	03-Sep-15						, , , ,	
	Received GEO Comment	0	04.0 15	03-Sep-15					1		
ļ	Prepare Response to Comment	12	04-Sep-15	17-Sep-15					1		
Page	11 of 15 Planned Bar TMCLK - No	orthorn C	Connection Su	Ih-Qoo Turr	nol Santiar	1		Date	Revision	Checked	
	Planned Bar - Critical							08-Apr-14 TM 28-Aug-14 TM	CLK/DBJGEN/PRG/9850 CLK/DBJGEN/PRG/9850 CLK/DBJGEN/PRG/9850	7 Rev.C CLa	SPo WYu WYu
Proje	ct ID: TMCLK DWPF 15W48 ♦ ♦ Planned Milestone De	tailed W	orks Program	nme (Rev. F)	た	BOUYGUES TRAVAUX PUBLICS		CLK/DBJ/GEN/PRG/9850		
Data	Date: 28-Feb-16 Progress bar -	hree Mo	onths Rolling	Programme		HongKong A member of the Bouygues Construction group					
	Progress Milestone		-	-		Dragages - Bouygues Joint Venture 寶嘉 - 有	0依格聯營				
		Progr	ess as of 28-	reb-16							

vity Name			Orig	DWPF Start	DWPF							
			Dur		Finish	2015 Dec	Jan	Feb	Mar	2016 Apr	Мау	Jun Ju
2nd Submission to GEO			0		17-Sep-15							
2nd GEO Review			28	18-Sep-15	15-Oct-15							
Method Statement Submission												
Method Statement of Construct	ion Methodology of C&C Tunr	nels						1	1	1		
Preparation Method Statement for C&C Tunnels			25	28-Mar-15	30-Apr-15			1	1			
Submit Method Statement to SO			0		30-Apr-15							
SO Reviews & Comments			28	01-May-15	28-May-15	- 1 1			1 1 1			
Re-submission			18	29-May-15	18-Jun-15	; 						i
SO's Review			28	19-Jun-15	16-Jul-15							
Construction												
South C&C Tunnel - Diaphragm Wall			120	03-Oct-15	02-Mar-16				South C&C	Tunnel - Diaphra	ığım Wall	
C&C Tunnel - 1st 85m - Excavation by ramp			23	03-Mar-16	01-Apr-16					C&C Tunnel	1st 85m - Exca	vation by ramp
C&C Tunnel - 1st 85m - Excavation by vertical me	ean		11	02-Apr-16	15-Apr-16	·				C&C	Tunnel - 1st 85n	- Excavation by vertical
C&C Tunnel - 1st 85m - Tunnel Structure			95	16-Apr-16	09-Aug-16							
C&C Tunnel - 2nd 85m - Excavation by ramp			17	30-Apr-16	21-May-16						с	&C Tunnel - 2nd 85m - E
C&C Tunnel - 2nd 85m - Exc avation by vertical m	ean		18	23-May-16	13-Jun-16						_	C&C Tunnel -
C&C Tunnel - 3rd 85m - Excavation by ramp			18	23-May-16	13-Jun-16							C&C Tunnel -
				IVILY-IU								
South Retrieval Shaft												
Design Submission 												
(B5) AIP Construction Risk Asse	ssment - Impact on South Lar	ndfall										
SO's Condition Approval			35	27-Jan-15	02-Mar-15							
(B5) DDA Construction Risk Ass	essment - Impact on South La	andfall		,l								
Prepare Re-submission			10	23-May-15	04-Jun-15	 	+			-!		
2nd Submission			0		04-Jun-15					1		
ICE Cert. Issue			6	05-Jun-15	11-Jun-15							
SO's Condition Approval			35	05-Jun-15	09-Jul-15							
			00	00-001#10	00-0ui=10							
(F1) AIP Temp.works - Retrieval	Snatt on Southern Landfall inc	c. break-out										
SO Review (35 Days)			35	17-Dec-14	20-Jan-15							
SO Approval with Condition R eceived			0		20-Jan-15							
(F1) DDA Temp.works - Retrieva	I Shaft on Southern Landfall ir	nc. break-out										
Preparation of DDA Temp Support for Sth Retrie	val Shaft		18	01-Apr-15	25-Apr-15							
Review & Comment by JV			18	27-Apr-15	18-May-15	-						
Designer prepare DDA			6	19-May-15	26-May-15	ŀ	+					
Formal Submission of DDA to ICE/ IPs			0		26-May-15							
										1		
Advanced Submission to SO			0		26-May-15					1		
IPs/ SO's Advance Comments/ ICE Comments			28	27-May-15	23-Jun-15							
Comments Received			0		23-Jun-15		 			1 1 1		
Designer to Reply RtC + Update Submission			21	24-Jun-15	18-Jul-15							
Submit Updated DDA to SO/ ICE/ IPs			0	20-Jul-15								
ICEApproval & Issue Check Cert			12	20-Jul-15	01-Aug-15							
Submit ICE Check Cert to SO			6	03-Aug-15	08-Aug-15							
IPs Review			28	20-Jul-15	16-Aug-15							
IP's No Objection Received			0		16-Aug-15	ŀ						
				00.11.17								
SO's Review			35	20-Jul-15	23-Aug-15							
SO Approval with Condition R eceived			0		24-Aug-15							
ETWB TCW No 15/2005 - ELS De	sign for TBM Retrieval Shaft a	t Southern Landfa	II							1		
1st Submission to GEO - ETWB TCW No 15/20	05 - ELS Design for TBM Retrieval Shaft at Sou	uthern Landfall	0		24-Aug-15	5 - ELS Design fo	r TBM Retrieval	shaft at Souther	Landfall			
1st Submission GEO Review			28	24-Aug-15	20-Sep-15	1 1 1	+		1 1 1			
Received GEO Comment			0		21-Sep-15							
Prepare Response to Comment			12	21-Sep-15	06-Oct-15	iment						
· · ·						1						
2nd Submission to GEO			0		06-Oct-15							
2nd GEO Review			28	07-Oct-15	03-Nov-15	Review			1 1 1			
(F2) AIP Temp works of Ground	Treatment for TBMs passing u	Inder Southern Lar	ndfall									
Review & Comment by JV			18	23-Sep-14	15-Oct-14							
Designer Prepare AIP			12	16-Oct-14	29-Oct-14					1		
Formal Submission of AIP to ICE/IPs			0		29-Oct-14					1	1	
Advanced Submission of AIP to SO			0		29-Oct-14							
Review & Comment by SO/ ICE/ IPs			28	30-Oct-14	26-Nov-14	l.						
	ICE/ IDe Dessived			00.001-14								
Advance Commants from SO/ Comments from	IUL/ IFS NECEIVED		0		26-Nov-14							
Designer to Prepare RtC & Updated AIP			18	27-Nov-14	17-Dec-14							
Submisson of AIP to SO/ ICE together with Reply	To Comment (RTC)		0		17-Dec-14							
Reply to IPs Comments in RTC			0		17-Dec-14					1		
ICEApproval & Issue of Design Check Cert.			18	18-Dec-14	10-Jan-15	+ 	+			-!		
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12 of 15	Planned Bar	TMCLK - Northe	ern C	onnection Su	ıb-Sea Tunr	nel Section					Revision ICLK/DBJGEN/PRG/9850	
	Planned Bar - Critical							雪靈吉		08-Apr-14 TM 28-Aug-14 TM	ICLK/DBJGEN/PRG/9850 ICLK/DBJGEN/PRG/9850	7 Rev.B SPa WYu 7 Rev.C CLa WYu
t ID: TMCLK DWPF 15W48	Planned Milestone	Detaile	ed Wo	orks Program	ime (Rev. F)		■寶嘉 ■ Dragages	BOUYGUES TRAMAUX PUBLICS	10-Jun-15 TM	ICLK/DBJGEN/PRG/9850	WYu
Date: 28-Feb-16	Progress bar	Thra		nths Rolling I	Programme		A member of the Bouygues Co	longKong enstruction group				
•	Progress Milestone			intro introlling I			Dragages - Bouygue	s Joint Venture 寶嘉 -	布依格聯營	1		

Progress as of 28-Feb-16

Dod Dod Party	Activ	ity Name	Orig	DWPF Start	DWPF	
			Dur		Finish	
		Check Cert to SO	0		10-Jan-15	
		No Objection or Further Minor Comments from IPs Received	0		10-Jan-15	
		90 Review (25 Dave)	35	19-Dec-14	22- Jan-15	
				13-060-14		
		SO Approval with Condition R eceived	0		22-Jan-15	
		(F2) DDA Temp works of Ground Treatment for TBMs passing under Southern	Landfa	II		
		Review & Comment by JV	18	27-Apr-15	18-May-15	
		Designer prepare DDA	6	19-May-15	26-May-15	
		Formal Submission of DDA to ICE/ IPs	0		26-May-15	
			-			
9 9		Advanced Submission to SO	0		26-May-15	
		IPs/ SO's Advance Comments/ ICE Comments	28	27-May-15	23-Jun-15	
		Comments Received	0		23-Jun-15	
		Designer to Reply RtC + Update Submission	21	24-Jun-15	18-Jul-15	
		Submit Updated DDA to SO/ ICE/ IPs	0	20-Jul-15		
4 4					01 Aug 15	
Product Product <t< td=""><td></td><td></td><td>12</td><td>20-Jul-15</td><td>01-Aug-15</td><td></td></t<>			12	20-Jul-15	01-Aug-15	
1 2 2 4		Submit ICE Check Cert to SO	6	03-Aug-15	08-Aug-15	
		IPs Review	28	20-Jul-15	16-Aug-15	
		IP's No Objection Received	0		16-Aug-15	
		SO's Review	35	20-Jul-15	23-Aug-15	
The TCV Mite S2005 - EE Design for Twenower Mit of Space A and A an		SO Approval with Condition Reported	0			
					24-Aug-15	
41 540		ETWB TCW No 15/2005 - ELS Design for Temporary Measures for Ground Imp	ovemen	t		
- Numeric de Lemand - 2 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4		1st Submission to GEO - ETWB TCW No. 15/2005 - ELS Design for Gournd Improvement at Southern Landfall	0		24-Aug-15	5 - ELS Design for Gournd Improvement at Southern Landfall
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Point Point <th< td=""><td></td><td>2nd GEO Review</td><td>28</td><td>07-Oct-15</td><td>03-Nov-15</td><td>Review</td></th<>		2nd GEO Review	28	07-Oct-15	03-Nov-15	Review
Based Conneth M1 0 74.91 S 95.91 b 0 1 <td< td=""><td></td><td>(F4) Gantry Crane Support/Foundations in Southern Landfall</td><td>1</td><td></td><td></td><td></td></td<>		(F4) Gantry Crane Support/Foundations in Southern Landfall	1			
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(11) DDA for South Vent.Bldg. GBP & Arch.Submission Designer to Reply RiC + Update Submission 21 27.Nov-14 20-Dec-14 Submit Updated DDA to SO' ICE/ IPs 0 22-Dec-14 0 22-Dec-14 ICE Approval & Issue Check Cert 18 22-Dec-14 0 14-Jan-15 Submit ICE Check Cert to SO 6 15-Jan-15 21-Jan-15 15 age 13 of 15 Planned Bar Planned Bar Detailed Works Programme (Rev. F) 10-20-Dec Milestone 1						
Designer to Reply RtC + Update Submission 21 27-Nov-14 20-Dec-14 Submit Updated DDA to SO/ ICE/ IPs 0 22-Dec-14 1 ICEApproval & Issue Check Cert 18 22-Dec-14 14-Jan-15 ICEApproval & Issue Check Cert 18 22-Dec-14 14-Jan-15 Submit ICE Check Cert to SO 6 15-Jan-15 21-Jan-15 age 13 of 15 Planned Bar Planned Bar Planned Bar Planned Bar Planned Bar Detailed Works Programme (Rev. F) Three Months Rolling Programme Progress bar Progress bar Progress bar Three Months Rolling Programme Exercise Cont Worker gas - 6k&##</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Submit Updated DDA to SO/ ICE/ IPs 0 22-Dec-14 1 Submit Updated DDA to SO/ ICE/ IPs 0 22-Dec-14 14-Jan-15 ICE Approval & Issue Check Cert 18 22-Dec-14 14-Jan-15 Submit ICE Check Cert to SO 6 15-Jan-15 21-Jan-15 age 13 of 15 Planned Bar Planned Bar Planned Bar Planned Bar - Critical Planned Bar - Critical Detailed Works Programme (Rev. F) Image Progress bar Progress bar Progress Milestone Three Months Rolling Programme Image Programme Image Programme</td><td></td><td>(I1) DDA for South Vent.Bldg. GBP & Arch.Submission</td><td></td><td></td><td></td><td></td></tr><tr><td>ICE Approval & Issue Check Cert 18 22-Dec-14 14-Jan-15 Submit ICE Check Cert to SO 6 15-Jan-15 21-Jan-15 age 13 of 15 Planned Bar Planned Bar Planned Bar Planned Bar Detailed Works Programme (Rev. F) Progress bar Progress Milestone Three Months Rolling Programme Detailed Programme</td><td></td><td>Designer to Reply RtC + Update Submission</td><td>21</td><td>27-Nov-14</td><td>20-Dec-14</td><td></td></tr><tr><td>Submit ICE Check Cert to SO 6 15-Jan-15 21-Jan-15 age 13 of 15 Planned Bar Detailed Works Programme (Rev. F) Planned Milestone Progress bar Progress Milestone Progress Milestone Three Months Rolling Programme Image 1 - 46 kt Milestone Image - 46 kt Milestone<</td><td></td><td>Submit Updated DDA to SO/ ICE/ IPs</td><td>0</td><td>22-Dec-14</td><td></td><td></td></tr><tr><td>Submit ICE Check Cert to SO 6 15-Jan-15 21-Jan-15 age 13 of 15 Planned Bar Detailed Works Programme (Rev. F) Planned Milestone Progress bar Progress Milestone Progress Milestone Three Months Rolling Programme Image 1 - 46 kt Milestone Image - 46 kt Milestone<</td><td></td><td>ICEApproval & Issue Check Cert</td><td>18</td><td>22-Dec-14</td><td>14-Jan-15</td><td></td></tr><tr><td>age 13 of 15 roject ID: TMCLK DWPF 15W48 rata Date: 28-Feb-16</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>roject ID: TMCLK DWPF 15W48 ata Date: 28-Feb-16 Progress Milestone Progress Milestone Progress Milestone</td><td></td><td></td><td>Ö</td><td>1J-Jail-13</td><td>∠ i-Jail-13</td><td></td></tr><tr><td>roject ID: TMCLK DWPF 15W48 ata Date: 28-Feb-16 Progress Milestone Progress Milestone Progress Milestone</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>roject ID: TMCLK DWPF 15W48 ata Date: 28-Feb-16 Progress Milestone P</td><td>Page</td><td></td><td>thern C</td><td>onnection Su</td><td>ıb-Sea Tunr</td><td>12-Feb-14 TMCLKDBJGEN/PRG/98507 WYu SP0</td></tr><tr><td>Progress bar ◆ Progress Milestone Three Months Rolling Programme Drogramme Drograms Solution group Solution Group Drograms Solution Drograms Drog</td><td>Proie</td><td>ect ID: TMCLK DWPF 15W48</td><td></td><td>orke Program</td><td>me (Rev E</td><td>香寶嘉 淮寶嘉</td></tr><tr><td>ata Date: 28-Feb-16 Three Months Rolling Programme ◆ Progress Milestone Three Months Rolling Programme Drogoges - Bouygues Joint Venture 真嘉 - 布依格響管</td><td>-</td><td></td><td></td><td>ans riograff</td><td>e (nev. r</td><td>/ Dragages HonaKona</td></tr><tr><td>▼ ▼ Fi Ogress ivinestorie</td><td>Data</td><td></td><td>nree Mo</td><td>nths Rolling</td><td>Programme</td><td>A member of the Bourgues Construction group</td></tr><tr><td>Progress as of 28-Feb-16</td><td></td><td></td><td></td><td>-</td><td>-</td><td>Fundionites - ponvitines Young Kellen (1995年) - 中区(1995年)</td></tr><tr><td></td><td></td><td></td><td>Progr</td><td>ess as of 28-</td><td>⊢eb-16</td><td></td></tr></tbody></table>						

Activ	ty Name	Orig	DWPF Start	DWPF							
		Dur		Finish	2015 Dec	Jan	Feb	Mar	2016 Apr	Мау	Jun Jul
	IPs Review	28	22-Dec-14	18-Jan-15	 			' +	, , , , ,		
	IP's No Objection Received	0		18-Jan-15					 		
	SO's Review	35	22-Dec-14	25-Jan-15					- 		
	SO Approval with Condition R eceived	0		26-Jan-15					 		
	(I2) DDA for South Vent.Bldg. Foundation Design Review & Comment by JV	18	27-Apr-15	18-May-15					 		
	Designer prepare DDA	10	19-May-15	30-May-15	; ; ; ;			; ; *			
	Formal Submission of DDAto ICE/ IPs	0		30-May-15					1 		
	Advanced Submission to SO	0		30-May-15					 		
	IPs/ SO's Advance Comments/ ICE Comments	28	31-May-15	27-Jun-15					 		
	Comments Received	0		27-Jun-15	1				1 1 1		
	Designer to Reply RtC + Update Submission	21	29-Jun-15	23-Jul-15	 			 	 		
	Submit Updated DDA to SO/ ICE/ IPs	0	24-Jul-15		1				, , , ,		
	ICEApproval & Issue Check Cert	18	24-Jul-15	13-Aug-15					 		
	IPs Review	28	24-Jul-15	20-Aug-15				1			
	SO's Review	35	24-Jul-15	27-Aug-15					1 		
	(I2) DDA for South Vent.Bldg.Structural Design incl.Vent.Connections								, 4 1 1		
	Review & Comment by JV	18	18-Feb-15	17-Mar-15							
	Designer prepare DDA	10	18-Mar-15	28-Mar-15		Ì			1 		
	Formal Submission of DDA to ICE/ IPs	0		28-Mar-15							
	Advanced Submission to SO	0		28-Mar-15					 		
	IPs/ SO's Advance Comments/ ICE Comments	28	29-Mar-15	25-Apr-15		+		*	 		
	Comments Received	0		25-Apr-15			 	1	 		
	Designer to Reply RtC + Update Submission	21	27-Apr-15	21-May-15				1	 		
	Submit Updated DDA to SO/ ICE/ IPs	0	22-May-15		1				 		
	ICEApproval & Issue Check Cert	18	22-May-15	12-Jun-15			 	 	1 1 1 1		
	IPs Review	28	22-May-15	18-Jun-15							
	SO's Review	35	22-May-15	25-Jun-15		Ì			1 1 1 1		
	(J1) DDA Temp.works for Construction of Sth.Vent.Bldg.							1	- 		
	Designer to Reply RtC + Update Submission	21	24-Aug-15	16-Sep-15	mission				1 		
	Submit Updated DDA to SO/ ICE/ IPs	0	17-Sep-15		6- -			 	 		
	ICEApproval & Issue Check Cert	12	17-Sep-15	02-Oct-15	Cert	Ì			 		
	Submit ICE Check Cert to SO	6	03-Oct-15	09-Oct-15	to SO						
	IP's Review	28	17-Sep-15	14-Oct-15	hived		1		 		
	IP's No Objection Received SO's Review	35	17-Sep-15	14-Oct-15 21-Oct-15	eived						
	SO Approval with Condition R eceived	0	17-060-13	22-Oct-15	Çondition R eceiv	(ed		i + 	! !		; ; ;
	Construction					eu -			 		
ſ	Mobilization & Setting Up Piling Rigs	64	06-Aug-15	22-Oct-15	¦ t‡ing Up Piling Ri	gs			 		
	S - Piling (Socket H-piles)	132	23-Oct-15	08-Apr-16					S - Pilir	g (Socket H-piles	>
	S - Pile Test	24	09-Apr-16	07-May-16						S - Pile Te	st
	S -Sheet Piling	48	23-Oct-15	17-Dec-15	S-5	Sheet Piling		+	 		
	S- Excavation	100	09-May-16	05-Sep-16							
	South Surface Roadworks, Utility & Drainage works						1 1 1				
	Design Submission					Ì					
	(E1) AIP - Southern Landfall Seawall Modification					Ì	1		1 1 1		
	SO Review (35 Days)	35	03-Mar-17	06-Apr-17				1 1 1 1	 		
	SO Approval with Condition R eceived	0		06-Apr-17		Ì			1 1 1		
	(E1) DDA - Southern Landfall Seawall Modification					Ì			1 1 1 1		
	Preparation of DDA Modification of Seawall at Sth Landfall	18	07-Apr-17	02-May-17		Ì					
	Review & Comment by JV	18	04-May-17	24-May-17							
	Designer prepare DDA	10	25-May-17	06-Jun-17		Ì					
	Formal Submission of DDA to ICE/ IPs	0		06-Jun-17		Ì	 		 		
	Advanced Submission to SO	0		06-Jun-17		Ì					
	IPs/ SO's Advance Comments/ ICE Comments	28	07-Jun-17	04-Jul-17		Ì	1		1 1 1 1		
	Comments Received	0		04-Jul-17					1 1 1 4		
	(E3) DDA for Sewerage, Drainage, Waterworks & Utility works for South Landf Designer to Reply RtC + Update Submission	all 21	02-Feb-15	04-Mar-15		Ì			 		
	Submit Updated DDA to SO/ ICE/ IPs	0	02-Feb-15 05-Mar-15	GI - Ibivi - ru					 		
	ICEApproval & Issue Check Cert	12	05-Mar-15	18-Mar-15							
	Submit ICE Check Cert to SO	6	19-Mar-15	25-Mar-15	i 				 		
	IPs Review	28	05-Mar-15	01-Apr-15	 		 		 		
	IP's No Objection Received	0		01-Apr-15	i i				 		
					1			1		1	
Page	14 of 15 Planned Bar TMCLK - Not	thern C	onnection Su	ıb-Sea Tunr	el Section					Revision //CLK/DBJ/GEN/PRG/9850	
Proie	ct ID: TMCI K DWPE 15W48		orks Program				^香 寶嘉		28-Aug-14 TI	ACLK/DBJGEN/PRG/9850 ACLK/DBJGEN/PRG/9850 ACLK/DBJGEN/PRG/9850	7 Rev.C CLa WYu
	Planned Milestone Progress bar		_				Dragages HongKong	BOUYGUES TRAVAUX PUBLICS			
Data	Date: 28-Feb-16 Progress bar TI	nree Mo	nths Rolling I	Programme			onstruction group es Joint Venture 寶嘉 -	布依格聯營			
		Progr	ess as of 28-	Feb-16							

ivity Name	Orig	DWPF Start	DWPF								
	Dur	Clart	Finish	2015 Dec	Jan	Feb	Mar	2016 Apr	May	Jun	Jul
SO's Review	35	05-Mar-15	08-Apr-15		Jan				lviay	Juil	Jui
SO Approval with Condition R eceived	0		08-Apr-15	1				1 1 1			
Method Statement Submission											
Method Statement of Ground Treatment for TBMs Passing under Southern La	ndfall Se	eawall									
Preparation Method Statement for Ground Improvement in South Landfall	9	20-Jul-15	29-Jul-15	Landfall							1
Submit Method Statement to SO	0		29-Jul-15	1				 			
SO Reviews & Comments	28	30-Jul-15	26-Aug-15	- 1							1
Re-submission	6	27-Aug-15	02-Sep-15								1
SO's Review	28	03-Sep-15	30-Sep-15								r
SO's Approval	0	00-060-10	30-Sep-15	1 1 1			1 1 1	 			
	0		30-3ep-15	1				1 1 1			
Construction	1										1
Temporary Platform for Ground Treatment for TBM passing under Southern Seawall	48	06-Aug-15	02-Oct-15	und Treatment for	r TBM passing un	der Southern Se	awall				1
Grouting Treatment for TBM passing under Southern Seawall	339	03-Oct-15	25-Nov-16								
Testing & Commissioning/Inspection & Handover							1 1 1	 			1
Final Inspection & Handover							1 1 1	1 1 1			
Design Submission							1				1
(A12) Maintenance Matrix											1
Preparation of Maintenance Matrix	35	24-Dec-15	05-Feb-16			Preparati	n of Maintenanc	e Matrix			1
1st Submission	0		05-Feb-16	· · · · · · · · · · · · · · · · · · ·		🔶 1st Subm	ssion	 ! !			·
SO's Comments for 1st Submission	35	06-Feb-16	11-Mar-16				SO's C	omments for 1st	Submission		
Prepare Re-submission	18	12-Mar-16	06-Apr-16					Prepare F	Re-submission		1
2nd Submission	0		06-Apr-16					2nd Subm	Ission		1
SO's Condition Approval	35	07-Apr-16	11-May-16						SO's Co	ndition Approval	1 1
(A13) Operation & Maintenance Manual			<u> </u>	· · · · · · · · · · · · · · · · · · ·				 			
Preparation of Operation and Maintenance Manual	48	24-Dec-15	27-Feb-16			-	Preparation of	Operation and M	Maintenance Manu	al	1
1st Submission	0		27-Feb-16				1st Submissio	ņ			1
SO's Comments for 1st Submission	35	28-Feb-16	02-Apr-16				1	SO's Comn	¦ n¦ents for 1st Subm	ission	
Prepare Re-submission	24	05-Apr-16	03-May-16						Prepare Re-	submission	1
2nd Submission	0		03-May-16						2nd Submiss	sion	
SO's Condition Approval	35	04-May-16	07-Jun-16								dition Approva
(A14) As-built & As-fabricated Drawings							1 1 1	1 1 1			
Preparation of As-built and As-fabricated Drawings	48	24-Dec-15	27-Feb-16				Prenaration of	As-built and As-	fabricated Drawin	as	
1st Submission	0	21 200 10	27-Feb-16				1st Submissio	1		93	1
SO's Comments for 1st Submission	35	28-Feb-16	02-Apr-16				13. 300/113510	<u> </u>			
	24	05-Apr-16	02-Apr-16	-				_ SUS Comn	n/ents for 1st Subm		
Prepare Re-submission		03-Apr-16							Prepare Re-		1
2nd Submission	0		03-May-16	-					2nd Submiss		1
SO's Condition Approval	35	04-May-16	07-Jun-16							SO's Con	dition Approva
(A15) Health & Safety File incl.As-built Dwgs & Records, Maintenance Schedule							i 				,
Preparation of Health and Safety File including as-built drawings and records, maintenance schedules, operation and mai	48	24-Dec-15	27-Feb-16				Preparation of	Health and Safe	ty File including a	s-built drawings	and records, r
1st Submission	0		27-Feb-16				1st Submissio	n '			
SO's Comments for 1st Submission	35	28-Feb-16	02-Apr-16				1 	SO's Comn	hents for 1st Subm	iission	!
Prepare Re-submission	24	05-Apr-16	03-May-16						Prepare Re-	submission	1
2nd Submission	0		03-May-16						2nd Submiss	sion	1
SO's Condition Approval	35	04-May-16	07-Jun-16		+					SO's Con	dition Approval
				Ľ				1	1		

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F	age 15 of 15		Planned Bar	TMCLK - Northern Connection Sub-Sea Tunnel Section		Date 12-Feb-14 08-Apr-14	Revision TMCLK/DBJGEN/PRG/98507 TMCLK/DBJGEN/PRG/98507 Rev.B	Checked WYu SPa	Approved SPo WYu
	roject ID: TMCLK DWPF 15W48 ata Date: 28-Feb-16	 ▲ ▲ 	 Planned Bar - Critical Planned Milestone Progress bar Progress Milestone 	Detailed Works Programme (Rev. F) Three Months Rolling Programme	香賀嘉 空間 Arceite d fe Beorgaese HongKong Arceite d fe Beorgaes Loint Venture 賀嘉 - 布依格琴雪	28-Aug-14 10-Jun-15	TMCLKDBJGEN/PRG/8507 Rev.C TMCLKDBJGEN/PRG/8507 Rev.F	CLa	WYu
				Progress as of 28-Feb-16					

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	lementa 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		✓
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.		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	-	plementa Stages		Status *
	Reference					D	C	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.	construction period	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		~
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	JTY								1
Marine Works (Sea	quence 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		✓
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	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	-	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		*
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		1

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	
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 	5						
		- 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;	1	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	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	Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Reference					D	С	0	1
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		√
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	Imj	olementa 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.	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.	All areas/ throughout construction period	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		~
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		✓
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		~
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		√

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

EIA Reference	EM&A Manual	1	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
	Reference					D	C	0	1
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		~
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		1
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		`
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		~
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	Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Im	plementa Stages	tion	Status *
	Reference					D	C	0	
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.	Roadside/design and operation	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 construction period	Contractor	EM&A Manual		Y		
Water Quality Mo	mitoring		-						
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.	as defined in EM&A Manual, Section 5/ Before, through-out	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	Ŷ		~
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.	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		~
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		~
			reclamation works						

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

EIA Reference	EM&A Manual	al	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	plementa Stages	tion	Status *
	Reference					D	C	0	
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.	t 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 A	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
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		~

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

EIA Reference	Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	plementa Stages	tion	Status *
	Reference					D	С	0	
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 Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	-	plementa Stages		Status *
12.6	Kererence	The Contractor shall apply for and obtain the appropriate licenses for	Contract mobilisation	Contractor	TMEIA, Land	D	C Y	0	
12.0		the disposal of public fill, chemical waste and effluent discharges.		Contractor	(Miscellaneous Provisions) Ordinance (Cap 28); Waste Disposal Ordinance (Cap 354); Dumping at Sea Ordinance (Cap 466); Water Pollution Control Ordinance.		1		
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.		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		~
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		√

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

EIA Reference	EM&A Manual	ual	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Reference					D	C	0	
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		Ŷ		~
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		
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		-
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;	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	Imp	olementa Stages	tion	Status *
	Reference					D	С	0	
		<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> Adequate ventilation; <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 <i>f</i> 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		1
12.6	8.1	Night soil should be regularly collected by licensed collectors.	All areas / throughout construction period	Contractor	TMEIA		Y		N/A

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	
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		<>
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		1
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.		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 Lan	tau 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 qua	rterly encounter rate of number of dolp	phin sightings, which is 6.00 i				
NEL and 9.85 in NWL during the baseline monitoring period						

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 10/12/2015
<u>Sampler</u> Model Serial Number	: : :	TE-5170 S/N 0816
Calibration Orfice and Standard Serial Number Service Date Slope (m) Intercept (b) Correlation Coefficient(r)	Calibra	tion Relationship 2454 14 Mar 2015 2.09532 -0.03812 0.99994
<u>Standard Condition</u> Pstd (hpa) Tstd (K) <u>Calibration Condition</u> Pa (hpa) Ta(K)	: : : : : : : : : : : : : : : : : : : :	1013 298.18 1016 293

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.8	3.469	1.674	56	56.56
2	13 holes	9.7	3.146	1.519	51	51.51
3	10 holes	7.2	2.710	1.312	44	44.44
4	7 holes	4.8	2.213	1.074	37	37.37
5	5 holes	2.8	1.690	0.825	28	28.28

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):32.998 Intercept(b): 1.367 Correlation Coefficient(r): 0.9995

Checked by: Magnum Fan

Location Calibrated by Date	:	ASR10 P.F.Yeung 10/12/2015
<u>Sampler</u>		
Model	:	TE-5170
Serial Number	:	S/N 8162
Calibration Orfice and Standard	d Calibrat	tion Relationship
Serial Number	:	2454
Service Date	:	14 Mar 2015
Slope (m)	:	2.09532
Intercept (b)	:	-0.03812
Correlation Coefficient(r)	:	0.99994
Steel Level Com Hitten		
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)		1016
Ta(K)	•	293
	•	2)5

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.8	3.469	1.674	56	56.56
2	13 holes	9.5	3.113	1.504	50	50.50
3	10 holes	6.8	2.634	1.275	44	44.44
4	7 holes	4.5	2.143	1.041	37	37.37
5	5 holes	2.8	1.690	0.825	30	30.30

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>30.331</u> Intercept(b): <u>5.505</u>

Correlation Coefficient(r): 0.9992

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

Location Calibrated by Date	:	AQMS1 P.F.Yeung 10/12/2015
<u>Sampler</u> Model Serial Number	:	TE-5170 S/N 1253
<u>Calibration Orfice and Standard C</u> Serial Number Service Date Slope (m) Intercept (b) Correlation Coefficient(r)	alibration	n Relationship 2454 14 Mar 2015 2.09532 -0.03812 0.99994
<u>Standard Condition</u> Pstd (hpa) Tstd (K) <u>Calibration Condition</u> Pa (hpa) Ta(K)	:	1013 298.18 1016 293

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.7	3.454	1.667	55	55.55
2	13 holes	9.7	3.146	1.519	50	50.50
3	10 holes	7.2	2.710	1.312	44	44.44
4	7 holes	4.5	2.143	1.041	36	36.36
5	5 holes	2.7	1.660	0.810	28	28.28

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):31.314 Intercept(b):3.263

Correlation Coefficient(r): 0.9994

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

Location Calibrated by Date	:	ASR 1 P.F.Yeung 10/12/2015
<u>Sampler</u> Model Serial Number	:	TE-5170 S/N 0146

Calibration Orfice and Standard	Calibra	tion Relationship
Serial Number	:	2454
Service Date	:	24 Mar 2015
Slope (m)	:	2.09532
Intercept (b)	:	-0.03812
Correlation Coefficient(r)	:	0.99994

Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1016
Ta(K)	:	293

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.5	3.425	1.653	55	55.55
2	13 holes	9.0	3.030	1.465	48	48.48
3	10 holes	6.6	2.595	1.257	42	42.42
4	7 holes	4.6	2.166	1.052	34	34.34
5	5 holes	2.8	1.690	0.825	26	26.26

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>35.166</u> Intercept(b): <u>-2.551</u> Correlation Coefficient(r): <u>0.9991</u>

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

Location Calibrated by Date	:	ASR 6 P.F.Yeung 10/12/2015
Sampler Model	:	TE-5170
Serial Number	:	S/N 3957
Calibration Orfice and Standard Serial Number Service Date Slope (m) Intercept (b) Correlation Coefficient(r)	l Calibra	tion Relationship 2454 24 Mar 2015 2.09532 -0.03812 0.99994
<u>Standard Condition</u> Pstd (hpa) Tstd (K) Calibration Condition	:	1013 298.18

Calibration Condition		
Pa (hpa)	:	1016
Ta(K)	:	293

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.2	3.528	1.702	54	54.54
2	13 holes	9.2	3.063	1.480	48	48.48
3	10 holes	6.7	2.614	1.266	41	41.41
4	7 holes	4.4	2.119	1.029	34	34.34
5	5 holes	2.6	1.629	0.795	27	27.27

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):30.338

Intercept(b): 3.148

Correlation Coefficient(r): 0.9997

Checked by: Magnum Fan

Location Calibrated by Date	:	ASR 5 P.F.Yeung 11/02/2016
<u>Sampler</u> Model Serial Number	:	TE-5170 S/N 0816
Calibration Orfice and Standard Serial Number Service Date Slope (m) Intercept (b) Correlation Coefficient(r)	Calibrat : : :	tion Relationship 2454 14 Mar 2015 2.09532 -0.03812 0.99994
<u>Standard Condition</u> Pstd (hpa) Tstd (K) <u>Calibration Condition</u> Pa (hpa) Ta(K)	:	1013 298.18 1016 291

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.8	3.626	1.749	53	53.71
2	13 holes	10.5	3.284	1.585	47	47.63
3	10 holes	7.8	2.830	1.369	41	41.55
4	7 holes	4.9	2.243	1.089	33	33.44
5	5 holes	3.1	1.784	0.870	26	26.35

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):<u>30.486</u> Intercept(b): -0.080

Correlation Coefficient(r): 0.9992

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

Location Calibrated by Date		ASR10 P.F.Yeung 11/02/2016
Sampler		
Model	:	TE-5170
Serial Number	:	S/N 8162
Calibration Orfice and Standard	l Calibra	tion Relationship
Serial Number	:	2454
Service Date	:	14 Mar 2015
Slope (m)	:	2.09532
Intercept (b)	:	-0.03812
Correlation Coefficient(r)	•	0.99994
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1016
Ta(K)	:	291

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.8	3.481	1.680	54	54.73
2	13 holes	9.6	3.140	1.517	50	50.67
3	10 holes	7.2	2.719	1.316	44	44.59
4	7 holes	4.7	2.197	1.067	36	36.48
5	5 holes	3.0	1.755	0.856	30	30.40

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>30.032</u> Intercept(b):<u>4.472</u>

Correlation Coefficient(r): 0.9993

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

Location Calibrated by Date	:	AQMS1 P.F.Yeung 11/02/2016
<u>Sampler</u> Model Serial Number	:	TE-5170 S/N 1253
Calibration Orfice and Standard C Serial Number Service Date Slope (m) Intercept (b) Correlation Coefficient(r)	<u>alibration</u> : : :	n Relationship 2454 14 Mar 2015 2.09532 -0.03812 0.99994
<u>Standard Condition</u> Pstd (hpa) Tstd (K) <u>Calibration Condition</u> Pa (hpa) Ta(K)	:	1013 298.18 1016 291

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.5	3.437	1.658	47	47.63
2	13 holes	9.4	3.107	1.501	42	42.57
3	10 holes	6.8	2.643	1.279	36	36.48
4	7 holes	4.5	2.150	1.044	28	28.38
5	5 holes	2.8	1.696	0.828	22	22.30

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):30.620 Intercept(b):-3.177

Correlation Coefficient(r): 0.9994

Checked by: Magnum Fan

Location Calibrated by Date	: :	ASR 1 P.F.Yeung 11/02/2016
<u>Sampler</u> Model Serial Number	:	TE-5170 S/N 0146
<u>Calibration Orfice and Standa</u> Serial Number Service Date Slope (m) Intercept (b) Correlation Coefficient(r)	rd Calibrat : : : :	ion Relationship 2454 14 Mar 2015 2.09532 -0.03812 0.99994
<u>Standard Condition</u> Pstd (hpa) Tstd (K) Calibration Condition	:	1013 298.18

Pa (hpa)	:	1016	
Ta(K)	:	291	

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.6	3.4517	1.666	50	50.67
2	13 holes	8.8	3.006	1.453	43	43.58
3	10 holes	6.8	2.643	1.279	38	38.51
4	7 holes	4.6	2.174	1.056	30	30.40
5	5 holes	2.8	1.696	0.828	24	24.32

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>31.762</u>

Intercept(b): <u>-2.402</u>

Correlation Coefficient(r): 0.9990

Checked by: Magnum Fan

Location Calibrated by Date	: : :	ASR 6 P.F.Yeung 11/02/2016
Sampler Model		TE 5170
Serial Number	•	TE-5170 S/N 3957
Calibration Orfice and Standard	Calibra	tion Relationship
Serial Number	:	2454
Service Date	:	14 Mar 2015
Slope (m)	:	2.09532
Intercept (b)	:	-0.03812
Intercept (b) Correlation Coefficient(r)	:	-0.03812 0.99994
1 ()	:	

Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1016
Ta(K)	:	291

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.8	3.626	1.749	52	52.70
2	13 holes	10.0	3.205	1.548	46	46.62
3	10 holes	7.8	2.830	1.369	41	41.55
4	7 holes	4.7	2.197	1.067	33	33.44
5	5 holes	3.1	1.784	0.870	28	28.38

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):27.573

Intercept(b): 4.131

Correlation Coefficient(r): 0.9995

Checked by: Magnum Fan

ENVIROTECH SERVICES CO.

Date of Calibration :	10 November 2015
Brand of Test Meter:	Davis
Model:	Weather Wizard III (s/n: WE90911A30)
Location :	ASR5
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 Anemometer
3. Wind Direction Test	The wind meter was on-site calibrated against the marine compass at four directions
Results:	

Calibration Report of Wind Meter

Wind Still Test

4 	Wind Speed (m/s)	8
	0.00	

Wind Speed Test

Davis (m/s)	Anemomete (m/s)
1.6	1.4
2.1	2.5
2.5	2.9

Wind Direction Test

	Davis (o)		Marine Compass (o)	
	271		270	
	2		0	
	91		90	
÷	179	500 10	180	

Calibrated by:

Jai Yeung Ping Fai

(Technical Officer)

Checked by :

.

Ho Kam Fat (Senior Technical Officer)



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		Rootsmeter Orifice I.I	-,	438320 2454	Ta (K) - Pa (mm) -	292 756.92
======= PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA	NA NA NA NA	1.00 1.00 1.00 1.00 1.00	1.4460 1.0300 0.9180 0.8780 0.7240	3.2 6.4 7.9 8.7 12.6	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)			Va	(x axis) Qa	(y axis)
1.0121 1.0078 1.0057 1.0047 0.9994	0.6999 0.9785 1.0955 1.1443 1.3805	1.4258 2.0163 2.2543 2.3644 2.8515			0.9958 0.9916 0.9895 0.9885 0.9883	0.6886 0.9627 1.0779 1.1258 1.3582	0.8784 1.2422 1.3888 1.4566 1.7568
Qstd sloj intercep coeffici	t (b) =	2.09532 -0.03812 0.99994			Qa slop intercep coeffici	t (b) =	1.31205 -0.02349 0.99994
y axis =	SQRT [H20 (I	Pa/760) (298/	 Ta)]		y axis =	SQRT [H20 ('	Ta/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 = $1/m\{ [SQRT H2O(Ta/Pa)] - b \}$



輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C153422 證書編號

Manufacturer / 嬰 Model No. / 型號 Serial No. / 編號 Supplied By / 委		Anemometer Lutron AM-4201 AF.27513 Envirotech Services Co. Shop 6, G/F., Casio Mansion, 2 Hong Kong		of Receipt I,	
TEST CONDIT	TIONS / 測詞	试條件			
Temperature / 溫 Line Voltage / 電	100	3 ± 2)°C	Relative H	umidity / オ	相對濕度 : (55 ± 20)9
TEST SPECIFI Calibration checl		/ 測試規範			
DATE OF TEST	T / 測試日其	朝 : 23 June 2015			
DATE OF TEST					
TEST RESULT The results apply	TS / 測試結: y to the part				
TEST RESULT The results apply The results are do The test equipme	TS / 測試結: y to the part letailed in th ent used for	果 icular unit-under-test only. ie subsequent page(s). calibration are traceable to Natic	onal Standards via :		
TEST RESULT The results apply The results are do	TS / 測試結: y to the part letailed in th ent used for	果 icular unit-under-test only. ie subsequent page(s). calibration are traceable to Natic	onal Standards via :		
TEST RESULT The results apply The results are do The test equipme	TS / 測試結: y to the part letailed in th ent used for	果 icular unit-under-test only. ie subsequent page(s). calibration are traceable to Natic	onal Standards via :		
TEST RESULT The results apply The results are do The test equipme - Testo Industria	TS / 測試結: y to the part letailed in th ent used for	果 icular unit-under-test only. ie subsequent page(s). calibration are traceable to Natic	onal Standards via :		
TEST RESULT The results apply The results are do The test equipme	TS / 測試結: y to the part letailed in th ent used for	果 icular unit-under-test only. ie subsequent page(s). calibration are traceable to Natic	onal Standards via :		

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。



輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C153422 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- 2. The results presented are the mean of 10 measurements at each calibration point.

3. Test equipment :

Equipment ID	Description	Certificate No.
CL386	Multi-function Measuring Instrument	S12109

- 4. Test procedure : MA130N.
- 5. Results :

Air Velocity

Applied	UUT		Measured Correction	
Value	Reading	Value	ertainty	
(m/s)	(m/s)	(m/s)	Expanded Uncertainty (m/s)	Coverage Factor
1.9	1.8	+0.1	0.2	2.0
4.0	3.9	+0.1	0.2	2.0
6.0	6.0	0.0	0.3	2.0
8.0	8.1	-0.1	0.3	2.0
10.0	10.3	-0.3	0.4	2.0

Remarks : - The Measured Corrections are defined as :

Value = Applied Value - UUT Reading

- The expanded uncertainties are for a level of confidence of 95 %.

Note :

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部後印本證書需先獲本實驗所書面批准。

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 - February 2016

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Feb		3-Feb	4-Feb	5-Feb	6-Feb
		1-hour TSP - 3 times			1-hour TSP - 3 times	
		24-hour TSP - 1 time			24-hour TSP - 1 time	
		Impact AQM			Impact AQM	
7-Feb	public holiday 8-Feb	public holiday 9-Feb	public holiday 10-Feb	11-Feb	12-Feb	13-Feb
				1-hour TSP - 3 times		
				24-hour TSP - 1 time		
				Impact AQM		
14-Feb	15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb
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
21-Feb	22-Feb		24-Feb			27-Feb
		1-hour TSP - 3 times			1-hour TSP - 3 times	
		24-hour TSP - 1 time			24-hour TSP - 1 time	
		Impact AQM			Impact AQM	
28-Feb						
	1-hour TSP - 3 times					
	24-hour TSP - 1 time					
	Impact AQM					

HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Tentative Air Quality Impact Monitoring Schedule - March 2016

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Mar	2-Mar	3-Mar	4-Mar	5-Ma
				1-hour TSP - 3 times		
				24-hour TSP - 1 time		
				Impact AQM		(0.14
6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Ma
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
13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar
		1-hour TSP - 3 times			1-hour TSP - 3 times	
		24-hour TSP - 1 time			24-hour TSP - 1 time	
		Impact AQM			Impact AQM	
20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	public holiday 25-Mar	public holiday 26-Mai
	1-hour TSP - 3 times			1-hour TSP - 3 times		
	24-hour TSP - 1 time			24-hour TSP - 1 time		
	Impact AQM			Impact AQM		
	public holiday 28-Mar	29-Mar	30-Mar	31-Mar		
1-hour TSP - 3 times			1-hour TSP - 3 times			
24-hour TSP - 1 time			24-hour TSP - 1 time			
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 - February 2016

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

HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Tentative Impact Dolphin Monitoring Survey Monitoring Schedule - March 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Mar				
6-Mar		r 8-Mar	9-Mar	10-Mar	11-Mar	12-Mar
	Impact Dolphin Monitoring					
13-Mar	14-Ma	r 15-Mar	16-Mar	17-Mar	18-Mar	19-Mar
	Impact Dolphin Monitoring					
20-Mar	21-Ma	r 22-Mar	23-Mar	24-Mar	public holiday 25-Mar	public holiday 26-Mar
	Impact Dolphin Monitoring					
27-Mar	public holiday 28-Ma		30-Mar	31-Mar		
		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

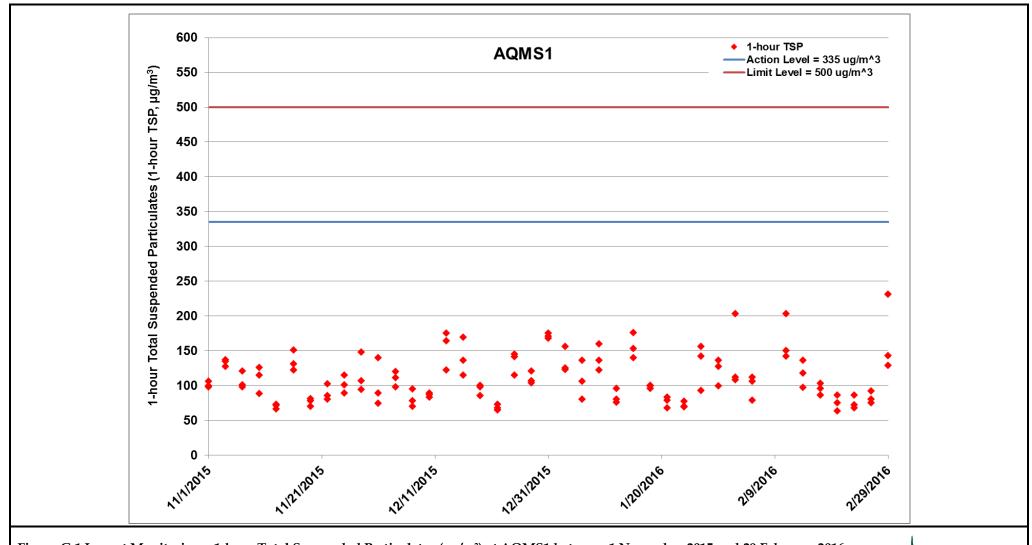


Figure G.1 Impact Monitoring – 1-hour Total Suspended Particulates (µg/m³) at AQMS1 between 1 November 2015 and 29 February 2016 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/11/2015 – 29/2/2016) and Box Culvert Extension (1/11/2015 – 29/2/2016). *Ref:* 0212330_Impact AQM graphs_ February 2016_REV a.xlsx



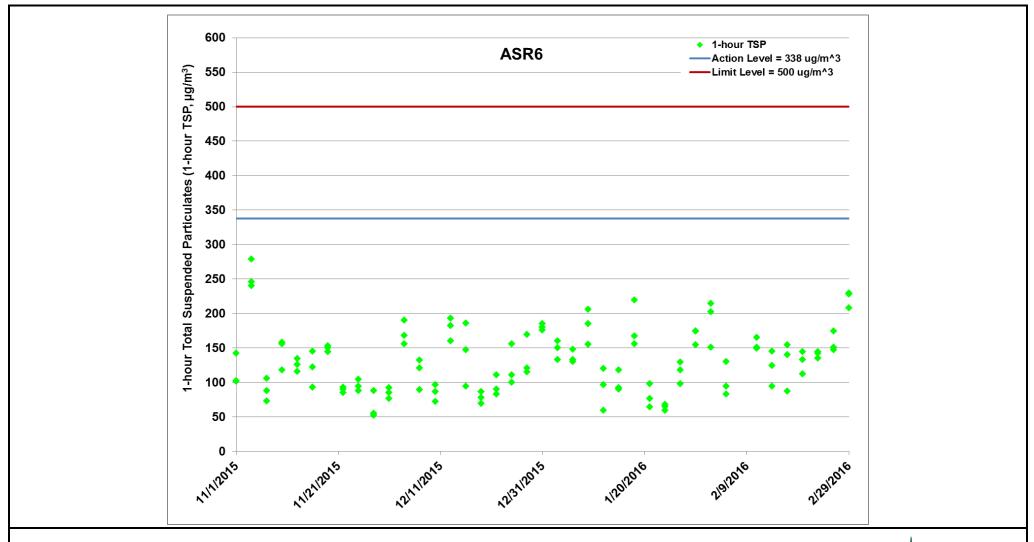


Figure G.2 Impact Monitoring – 1-hour Total Suspended Particulates (µg/m³) at ASR6 between 1 November 2015 and 29 February 2016 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/11/2015 – 29/2/2016) and Box Culvert Extension (1/11/2015 – 29/2/2016). *Ref:* 0212330_Impact AQM graphs_ February 2016_REV a.xlsx



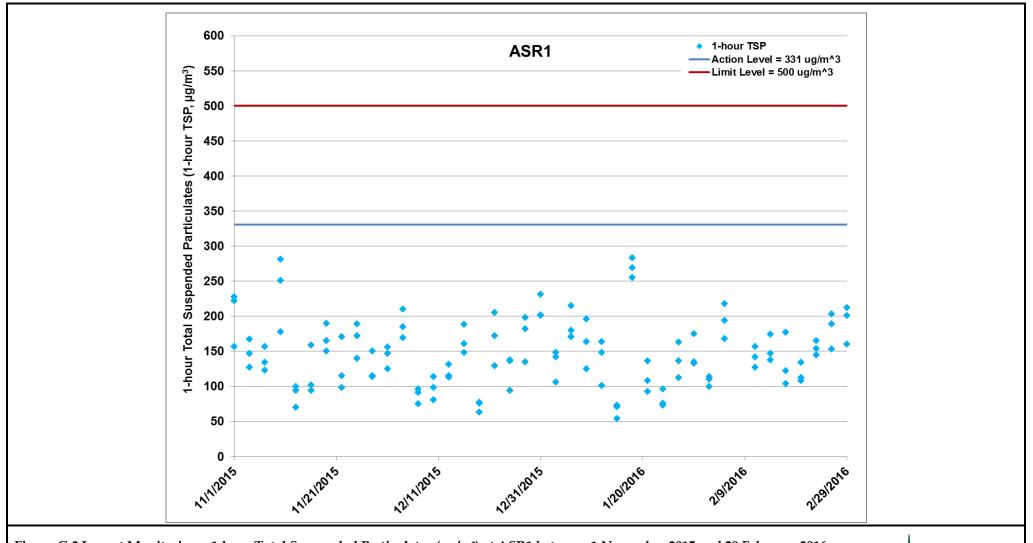


Figure G.3 Impact Monitoring – 1-hour Total Suspended Particulates (µg/m³) at ASR1 between 1 November 2015 and 29 February 2016 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/11/2015 – 29/2/2016) and Box Culvert Extension (1/11/2015 – 29/2/2016). *Ref:* 0212330_Impact AQM graphs_ February 2016_REV a.xlsx



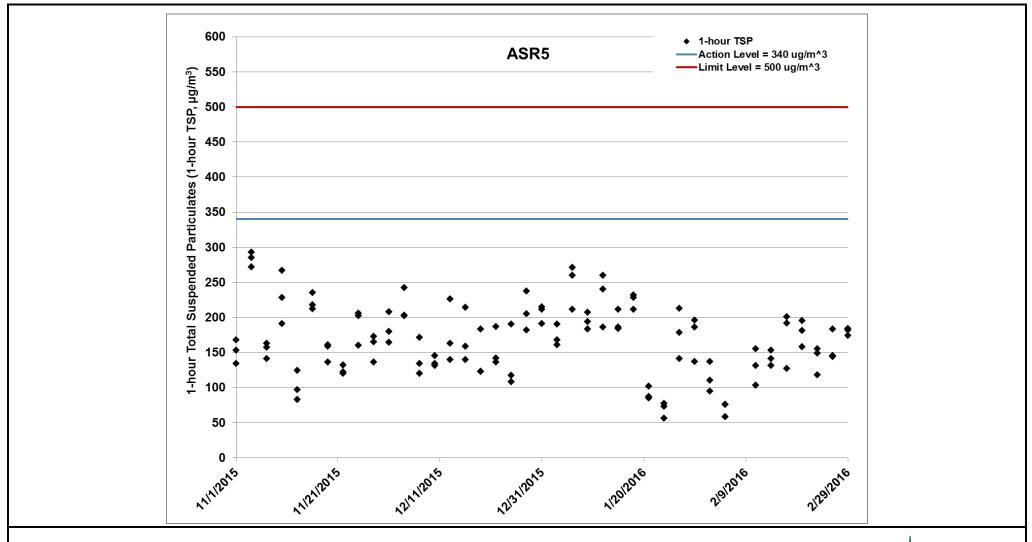


Figure G.4 Impact Monitoring – 1-hour Total Suspended Particulates (µg/m³) at ASR5 between 1 November 2015 and 29 February 2016 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/11/2015 – 29/2/2016) and Box Culvert Extension (1/11/2015 – 29/2/2016). *Ref:* 0212330_Impact AQM graphs_ February 2016_REV a.xlsx



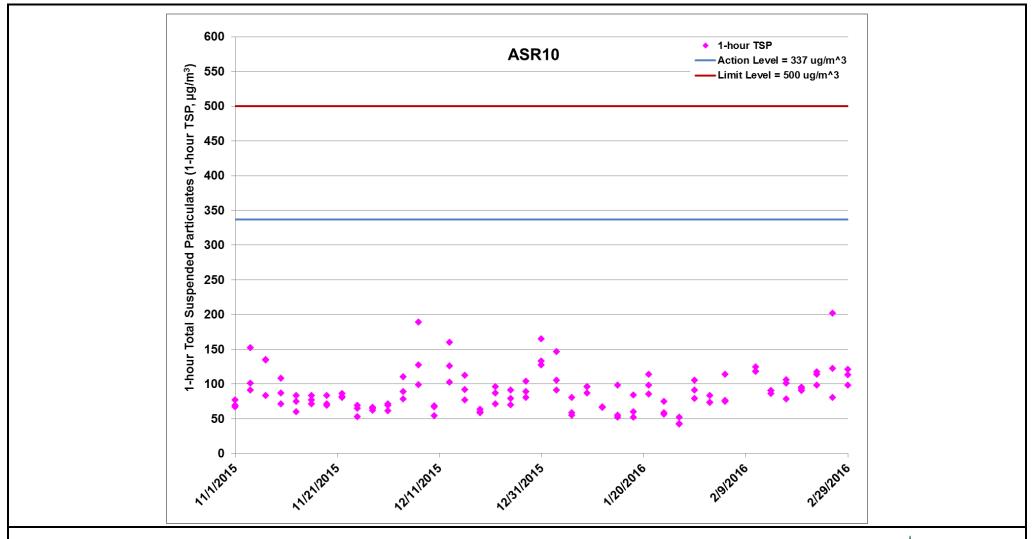


Figure G.5 Impact Monitoring – 1-hour Total Suspended Particulates (µg/m³) at ASR10 between 1 November 2015 and 29 February 2016 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/11/2015 – 29/2/2016) and Box Culvert Extension (1/11/2015 – 29/2/2016). *Ref:* 0212330_Impact AQM graphs_ February 2016_REV a.xlsx



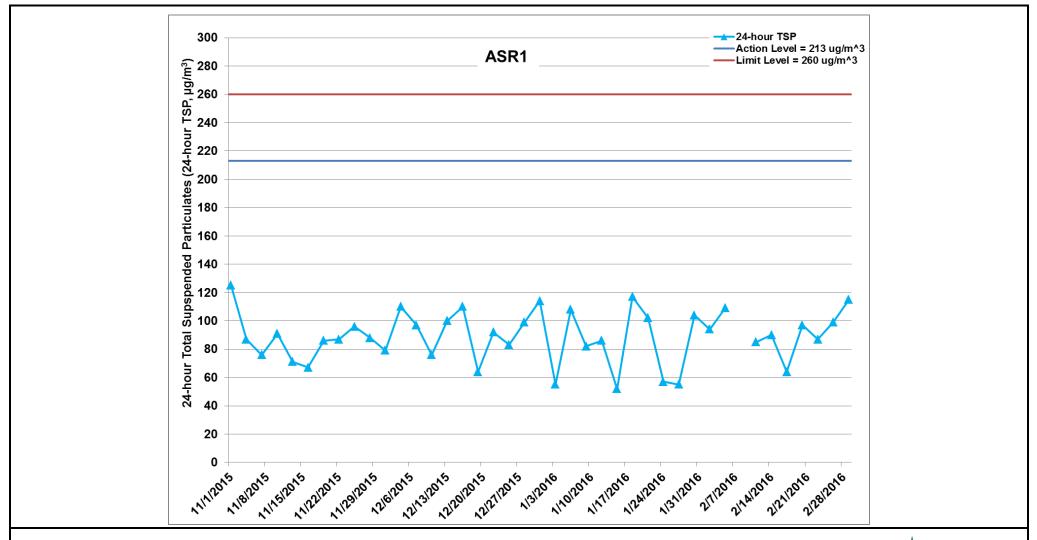


Figure G.6 Impact Monitoring – 24-hour Total Suspended Particulates (μg/m³) at ASR1 between 1 November 2015 and 29 February 2016 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/11/2015 – 29/2/2016) and Box Culvert Extension (1/11/2015 – 29/2/2016). *Ref:* 0212330_Impact AQM graphs_ February 2016_REV a.xlsx



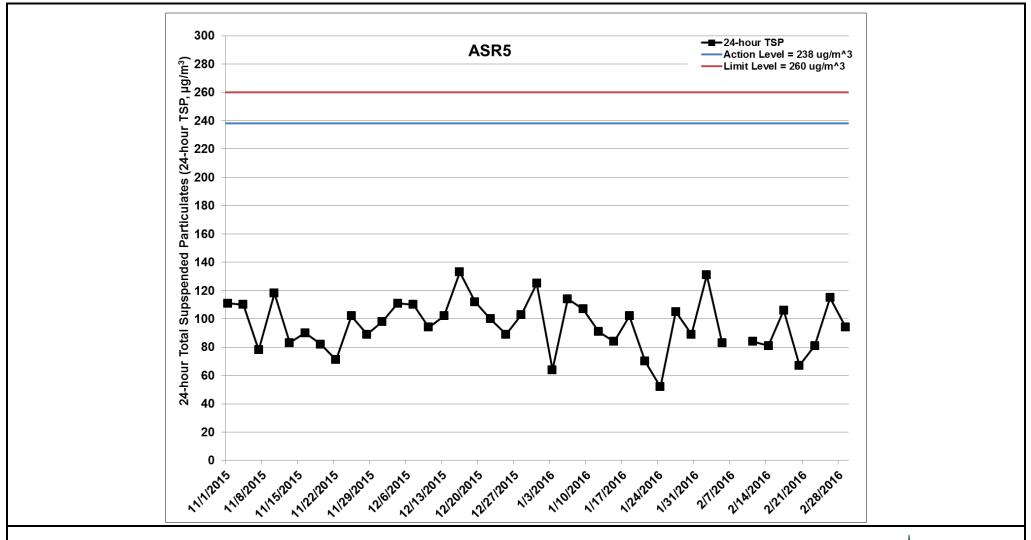


Figure G.7 Impact Monitoring – 24-hour Total Suspended Particulates (μg/m³) at ASR5 between 1 November 2015 and 29 February 2016 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/11/2015 – 29/2/2016) and Box Culvert Extension (1/11/2015 – 29/2/2016). *Ref:* 0212330_Impact AQM graphs_ February 2016_REV a.xlsx



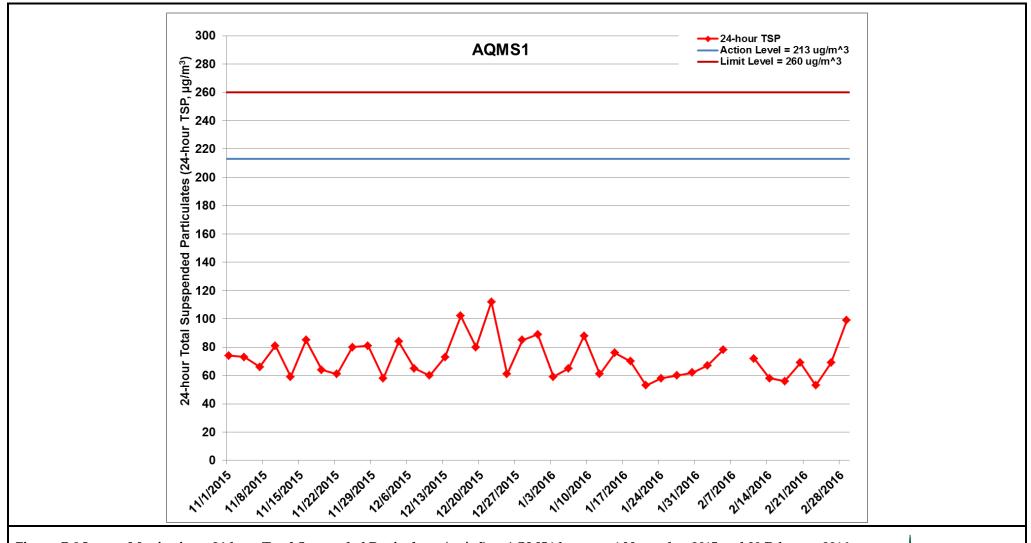


Figure G.8 Impact Monitoring – 24-hour Total Suspended Particulates (µg/m³) at AQMS1 between 1 November 2015 and 29 February 2016 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/11/2015 – 29/2/2016) and Box Culvert Extension (1/11/2015 – 29/2/2016). *Ref:* 0212330_Impact AQM graphs_ February 2016_REV a.xlsx



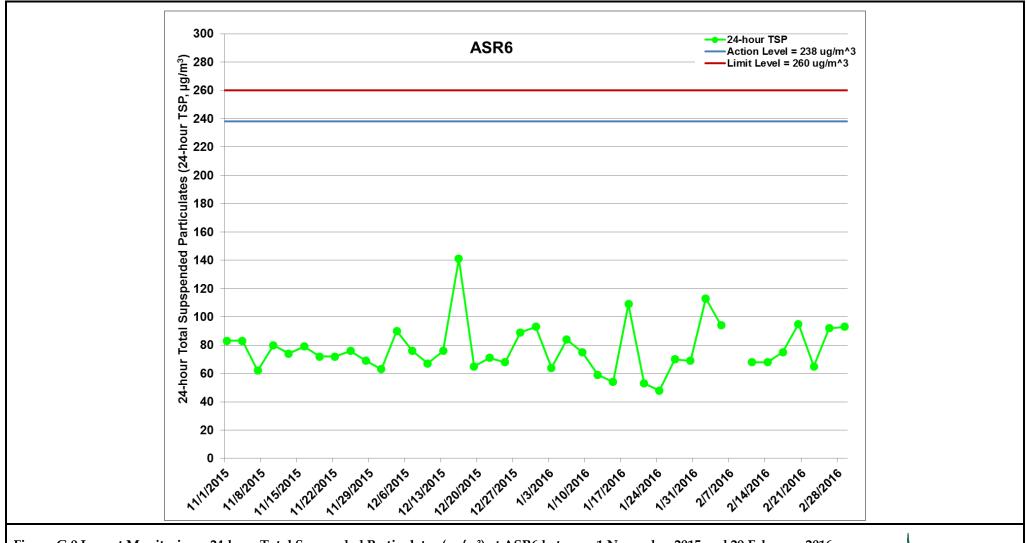


Figure G.9 Impact Monitoring – 24-hour Total Suspended Particulates (μg/m³) at ASR6 between 1 November 2015 and 29 February 2016 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/11/2015 – 29/2/2016) and Box Culvert Extension (1/11/2015 – 29/2/2016). *Ref:* 0212330_Impact AQM graphs_ February 2016_REV a.xlsx



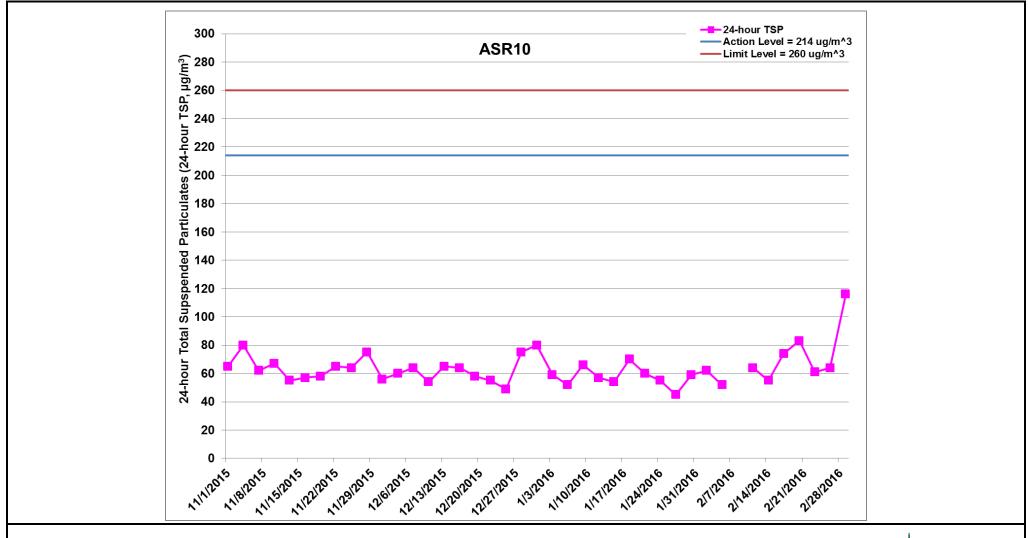


Figure G.10 Impact Monitoring – 24-hour Total Suspended Particulates (μg/m³) at ASR10 between 1 November 2015 and 29 February 2016 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/11/2015 – 29/2/2016) and Box Culvert Extension (1/11/2015 – 29/2/2016). *Ref:* 0212330_Impact AQM graphs_ February 2016_REV a.xlsx



Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2016-02-02	AQMS1	Rainy	14:04	1-hour TSP	112	ug/m3
TMCLKL	HY/2012/08	2016-02-02	AQMS1	Rainy	15:06	1-hour TSP	203	ug/m3
TMCLKL	HY/2012/08	2016-02-02	AQMS1	Rainy	16:06	1-hour TSP	108	ug/m3
TMCLKL	HY/2012/08	2016-02-02	ASR1	Rainy	13:53	1-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	2016-02-02	ASR1	Rainy	14:55	1-hour TSP	114	ug/m3
TMCLKL	HY/2012/08	2016-02-02	ASR1	Rainy	15:57	1-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2016-02-02	ASR10	Rainy	13:22	1-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2016-02-02	ASR10	Rainy	14:24	1-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2016-02-02	ASR10	Rainy	15:26	1-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2016-02-02	ASR5	Rainy	13:43	1-hour TSP	137	ug/m3
TMCLKL	HY/2012/08	2016-02-02	ASR5	Rainy	14:45	1-hour TSP	95	ug/m3
TMCLKL	HY/2012/08	2016-02-02	ASR5	Rainy	15:47	1-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	2016-02-02	ASR6	Rainy	13:32	1-hour TSP	151	ug/m3
TMCLKL	HY/2012/08	2016-02-02	ASR6	Rainy	14:34	1-hour TSP	214	ug/m3
TMCLKL	HY/2012/08	2016-02-02	ASR6	Rainy	15:36	1-hour TSP	202	ug/m3
TMCLKL	HY/2012/08	2016-02-05	AQMS1	Sunny	14:13	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2016-02-05	AQMS1	Sunny	15:15	1-hour TSP	106	ug/m3
TMCLKL	HY/2012/08	2016-02-05	AQMS1	Sunny	16:17	1-hour TSP	112	ug/m3
TMCLKL	HY/2012/08	2016-02-05	ASR1	Sunny	14:02	1-hour TSP	194	ug/m3
TMCLKL	HY/2012/08	2016-02-05	ASR1	Sunny	15:04	1-hour TSP	168	ug/m3
TMCLKL	HY/2012/08	2016-02-05	ASR1	Sunny	16:06	1-hour TSP	218	ug/m3
TMCLKL	HY/2012/08	2016-02-05	ASR10	Sunny	13:30	1-hour TSP	75	ug/m3
TMCLKL	HY/2012/08	2016-02-05	ASR10	Sunny	14:32	1-hour TSP	114	ug/m3
TMCLKL	HY/2012/08	2016-02-05	ASR10	Sunny	15:34	1-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2016-02-05	ASR5	Sunny	13:51	1-hour TSP	58	ug/m3
TMCLKL	HY/2012/08	2016-02-05	ASR5	Sunny	14:53	1-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2016-02-05	ASR5	Sunny	15:55	1-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2016-02-05	ASR6	Sunny	13:40	1-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2016-02-05	ASR6	Sunny	14:42	1-hour TSP	130	ug/m3
TMCLKL	HY/2012/08	2016-02-05	ASR6	Sunny	15:44	1-hour TSP	94	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2016-02-11	AQMS1	Sunny	14:15	1-hour TSP	150	ug/m3
TMCLKL	HY/2012/08	2016-02-11	AQMS1	Sunny	15:17	1-hour TSP	203	ug/m3
TMCLKL	HY/2012/08	2016-02-11	AQMS1	Sunny	16:19	1-hour TSP	142	ug/m3
TMCLKL	HY/2012/08	2016-02-11	ASR1	Sunny	14:04	1-hour TSP	142	ug/m3
TMCLKL	HY/2012/08	2016-02-11	ASR1	Sunny	15:06	1-hour TSP	157	ug/m3
TMCLKL	HY/2012/08	2016-02-11	ASR1	Sunny	16:08	1-hour TSP	127	ug/m3
TMCLKL	HY/2012/08	2016-02-11	ASR10	Sunny	13:33	1-hour TSP	124	ug/m3
TMCLKL	HY/2012/08	2016-02-11	ASR10	Sunny	14:35	1-hour TSP	118	ug/m3
TMCLKL	HY/2012/08	2016-02-11	ASR10	Sunny	15:37	1-hour TSP	118	ug/m3
TMCLKL	HY/2012/08	2016-02-11	ASR5	Sunny	13:54	1-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2016-02-11	ASR5	Sunny	14:56	1-hour TSP	155	ug/m3
TMCLKL	HY/2012/08	2016-02-11	ASR5	Sunny	15:58	1-hour TSP	131	ug/m3
TMCLKL	HY/2012/08	2016-02-11	ASR6	Sunny	13:44	1-hour TSP	165	ug/m3
TMCLKL	HY/2012/08	2016-02-11	ASR6	Sunny	14:46	1-hour TSP	151	ug/m3
TMCLKL	HY/2012/08	2016-02-11	ASR6	Sunny	15:48	1-hour TSP	149	ug/m3
TMCLKL	HY/2012/08	2016-02-14	AQMS1	Sunny	09:37	1-hour TSP	97	ug/m3
TMCLKL	HY/2012/08	2016-02-14	AQMS1	Sunny	10:39	1-hour TSP	118	ug/m3
TMCLKL	HY/2012/08	2016-02-14	AQMS1	Sunny	11:41	1-hour TSP	136	ug/m3
TMCLKL	HY/2012/08	2016-02-14	ASR1	Sunny	09:26	1-hour TSP	138	ug/m3
TMCLKL	HY/2012/08	2016-02-14	ASR1	Sunny	10:28	1-hour TSP	174	ug/m3
TMCLKL	HY/2012/08	2016-02-14	ASR1	Sunny	11:30	1-hour TSP	147	ug/m3
TMCLKL	HY/2012/08	2016-02-14	ASR10	Sunny	08:55	1-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2016-02-14	ASR10	Sunny	09:57	1-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	2016-02-14	ASR10	Sunny	10:59	1-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2016-02-14	ASR5	Sunny	09:16	1-hour TSP	131	ug/m3
TMCLKL	HY/2012/08	2016-02-14	ASR5	Sunny	10:18	1-hour TSP	153	ug/m3
TMCLKL	HY/2012/08	2016-02-14	ASR5	Sunny	11:20	1-hour TSP	141	ug/m3
TMCLKL	HY/2012/08	2016-02-14	ASR6	Sunny	09:05	1-hour TSP	124	ug/m3
TMCLKL	HY/2012/08	2016-02-14	ASR6	Sunny	10:07	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2016-02-14	ASR6	Sunny	11:09	1-hour TSP	145	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2016-02-17	AQMS1	Cloudy	13:36	1-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	2016-02-17	AQMS1	Cloudy	14:38	1-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	2016-02-17	AQMS1	Cloudy	15:40	1-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2016-02-17	ASR1	Cloudy	13:25	1-hour TSP	122	ug/m3
TMCLKL	HY/2012/08	2016-02-17	ASR1	Cloudy	14:27	1-hour TSP	177	ug/m3
TMCLKL	HY/2012/08	2016-02-17	ASR1	Cloudy	15:29	1-hour TSP	104	ug/m3
TMCLKL	HY/2012/08	2016-02-17	ASR10	Cloudy	12:53	1-hour TSP	106	ug/m3
TMCLKL	HY/2012/08	2016-02-17	ASR10	Cloudy	13:55	1-hour TSP	78	ug/m3
TMCLKL	HY/2012/08	2016-02-17	ASR10	Cloudy	14:57	1-hour TSP	101	ug/m3
TMCLKL	HY/2012/08	2016-02-17	ASR5	Cloudy	13:15	1-hour TSP	127	ug/m3
TMCLKL	HY/2012/08	2016-02-17	ASR5	Cloudy	14:17	1-hour TSP	201	ug/m3
TMCLKL	HY/2012/08	2016-02-17	ASR5	Cloudy	15:19	1-hour TSP	192	ug/m3
TMCLKL	HY/2012/08	2016-02-17	ASR6	Cloudy	13:04	1-hour TSP	87	ug/m3
TMCLKL	HY/2012/08	2016-02-17	ASR6	Cloudy	14:06	1-hour TSP	154	ug/m3
TMCLKL	HY/2012/08	2016-02-17	ASR6	Cloudy	15:08	1-hour TSP	140	ug/m3
TMCLKL	HY/2012/08	2016-02-20	AQMS1	Sunny	09:49	1-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2016-02-20	AQMS1	Sunny	10:51	1-hour TSP	75	ug/m3
TMCLKL	HY/2012/08	2016-02-20	AQMS1	Sunny	11:53	1-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	2016-02-20	ASR1	Sunny	09:37	1-hour TSP	112	ug/m3
TMCLKL	HY/2012/08	2016-02-20	ASR1	Sunny	10:39	1-hour TSP	108	ug/m3
TMCLKL	HY/2012/08	2016-02-20	ASR1	Sunny	11:41	1-hour TSP	134	ug/m3
TMCLKL	HY/2012/08	2016-02-20	ASR10	Sunny	09:06	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2016-02-20	ASR10	Sunny	10:08	1-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2016-02-20	ASR10	Sunny	11:10	1-hour TSP	95	ug/m3
TMCLKL	HY/2012/08	2016-02-20	ASR5	Sunny	09:27	1-hour TSP	195	ug/m3
TMCLKL	HY/2012/08	2016-02-20	ASR5	Sunny	10:29	1-hour TSP	181	ug/m3
TMCLKL	HY/2012/08	2016-02-20	ASR5	Sunny	11:31	1-hour TSP	158	ug/m3
TMCLKL	HY/2012/08	2016-02-20	ASR6	Sunny	09:16	1-hour TSP	144	ug/m3
TMCLKL	HY/2012/08	2016-02-20	ASR6	Sunny	10:18	1-hour TSP	112	ug/m3
TMCLKL	HY/2012/08	2016-02-20	ASR6	Sunny	11:20	1-hour TSP	133	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2016-02-23	AQMS1	Cloudy	13:31	1-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	2016-02-23	AQMS1	Cloudy	14:33	1-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2016-02-23	AQMS1	Cloudy	15:35	1-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2016-02-23	ASR1	Cloudy	13:21	1-hour TSP	145	ug/m3
TMCLKL	HY/2012/08	2016-02-23	ASR1	Cloudy	14:23	1-hour TSP	165	ug/m3
TMCLKL	HY/2012/08	2016-02-23	ASR1	Cloudy	15:25	1-hour TSP	154	ug/m3
TMCLKL	HY/2012/08	2016-02-23	ASR10	Cloudy	12:48	1-hour TSP	98	ug/m3
TMCLKL	HY/2012/08	2016-02-23	ASR10	Cloudy	13:50	1-hour TSP	114	ug/m3
TMCLKL	HY/2012/08	2016-02-23	ASR10	Cloudy	14:52	1-hour TSP	117	ug/m3
TMCLKL	HY/2012/08	2016-02-23	ASR5	Cloudy	13:10	1-hour TSP	155	ug/m3
TMCLKL	HY/2012/08	2016-02-23	ASR5	Cloudy	14:12	1-hour TSP	118	ug/m3
TMCLKL	HY/2012/08	2016-02-23	ASR5	Cloudy	15:14	1-hour TSP	149	ug/m3
TMCLKL	HY/2012/08	2016-02-23	ASR6	Cloudy	13:00	1-hour TSP	142	ug/m3
TMCLKL	HY/2012/08	2016-02-23	ASR6	Cloudy	14:02	1-hour TSP	135	ug/m3
TMCLKL	HY/2012/08	2016-02-23	ASR6	Cloudy	15:04	1-hour TSP	144	ug/m3
TMCLKL	HY/2012/08	2016-02-26	AQMS1	Cloudy	09:41	1-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2016-02-26	AQMS1	Cloudy	10:43	1-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2016-02-26	AQMS1	Cloudy	11:45	1-hour TSP	75	ug/m3
TMCLKL	HY/2012/08	2016-02-26	ASR1	Cloudy	09:30	1-hour TSP	153	ug/m3
TMCLKL	HY/2012/08	2016-02-26	ASR1	Cloudy	10:32	1-hour TSP	189	ug/m3
TMCLKL	HY/2012/08	2016-02-26	ASR1	Cloudy	11:34	1-hour TSP	203	ug/m3
TMCLKL	HY/2012/08	2016-02-26	ASR10	Cloudy	08:58	1-hour TSP	202	ug/m3
TMCLKL	HY/2012/08	2016-02-26	ASR10	Cloudy	10:00	1-hour TSP	122	ug/m3
TMCLKL	HY/2012/08	2016-02-26	ASR10	Cloudy	11:02	1-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2016-02-26	ASR5	Cloudy	09:20	1-hour TSP	183	ug/m3
TMCLKL	HY/2012/08	2016-02-26	ASR5	Cloudy	10:22	1-hour TSP	145	ug/m3
TMCLKL	HY/2012/08	2016-02-26	ASR5	Cloudy	11:24	1-hour TSP	144	ug/m3
TMCLKL	HY/2012/08	2016-02-26	ASR6	Cloudy	09:09	1-hour TSP	174	ug/m3
TMCLKL	HY/2012/08	2016-02-26	ASR6	Cloudy	10:11	1-hour TSP	147	ug/m3
TMCLKL	HY/2012/08	2016-02-26	ASR6	Cloudy	11:14	1-hour TSP	151	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2016-02-29	AQMS1	Sunny	14:09	1-hour TSP	143	ug/m3
TMCLKL	HY/2012/08	2016-02-29	AQMS1	Sunny	15:11	1-hour TSP	129	ug/m3
TMCLKL	HY/2012/08	2016-02-29	AQMS1	Sunny	16:13	1-hour TSP	231	ug/m3
TMCLKL	HY/2012/08	2016-02-29	ASR1	Sunny	13:58	1-hour TSP	160	ug/m3
TMCLKL	HY/2012/08	2016-02-29	ASR1	Sunny	15:50	1-hour TSP	201	ug/m3
TMCLKL	HY/2012/08	2016-02-29	ASR1	Sunny	16:02	1-hour TSP	212	ug/m3
TMCLKL	HY/2012/08	2016-02-29	ASR10	Sunny	13:24	1-hour TSP	121	ug/m3
TMCLKL	HY/2012/08	2016-02-29	ASR10	Sunny	14:26	1-hour TSP	113	ug/m3
TMCLKL	HY/2012/08	2016-02-29	ASR10	Sunny	15:28	1-hour TSP	98	ug/m3
TMCLKL	HY/2012/08	2016-02-29	ASR5	Sunny	13:46	1-hour TSP	184	ug/m3
TMCLKL	HY/2012/08	2016-02-29	ASR5	Sunny	14:48	1-hour TSP	174	ug/m3
TMCLKL	HY/2012/08	2016-02-29	ASR5	Sunny	15:50	1-hour TSP	182	ug/m3
TMCLKL	HY/2012/08	2016-02-29	ASR6	Sunny	13:35	1-hour TSP	208	ug/m3
TMCLKL	HY/2012/08	2016-02-29	ASR6	Sunny	14:37	1-hour TSP	228	ug/m3
TMCLKL	HY/2012/08	2016-02-29	ASR6	Sunny	15:39	1-hour TSP	229	ug/m3
TMCLKL	HY/2012/08	2016-02-02	AQMS1	Cloudy	17:08	24-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	2016-02-02	ASR1	Cloudy	16:59	24-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2016-02-02	ASR10	Cloudy	16:28	24-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2016-02-02	ASR5	Cloudy	16:49	24-hour TSP	131	ug/m3
TMCLKL	HY/2012/08	2016-02-02	ASR6	Cloudy	16:38	24-hour TSP	113	ug/m3
TMCLKL	HY/2012/08	2016-02-05	AQMS1	Sunny	17:19	24-hour TSP	78	ug/m3
TMCLKL	HY/2012/08	2016-02-05	ASR1	Sunny	17:08	24-hour TSP	109	ug/m3
TMCLKL	HY/2012/08	2016-02-05	ASR10	Sunny	16:00	24-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2016-02-05	ASR5	Sunny	16:57	24-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2016-02-05	ASR6	Sunny	16:46	24-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2016-02-11	AQMS1	Sunny	17:21	24-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2016-02-11	ASR1	Sunny	17:10	24-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2016-02-11	ASR10	Sunny	16:39	24-hour TSP	64	ug/m3
TMCLKL	HY/2012/08	2016-02-11	ASR5	Sunny	17:00	24-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	2016-02-11	ASR6	Sunny	16:50	24-hour TSP	68	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2016-02-14	AQMS1	Sunny	12:43	24-hour TSP	58	ug/m3
TMCLKL	HY/2012/08	2016-02-14	ASR1	Sunny	12:32	24-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2016-02-14	ASR10	Sunny	12:01	24-hour TSP	55	ug/m3
TMCLKL	HY/2012/08	2016-02-14	ASR5	Sunny	12:22	24-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2016-02-14	ASR6	Sunny	12:11	24-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2016-02-17	AQMS1	Cloudy	16:42	24-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2016-02-17	ASR1	Cloudy	16:31	24-hour TSP	64	ug/m3
TMCLKL	HY/2012/08	2016-02-17	ASR10	Cloudy	15:59	24-hour TSP	74	ug/m3
TMCLKL	HY/2012/08	2016-02-17	ASR5	Cloudy	16:21	24-hour TSP	106	ug/m3
TMCLKL	HY/2012/08	2016-02-17	ASR6	Cloudy	16:10	24-hour TSP	75	ug/m3
TMCLKL	HY/2012/08	2016-02-20	AQMS1	Sunny	12:55	24-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2016-02-20	ASR1	Sunny	12:43	24-hour TSP	97	ug/m3
TMCLKL	HY/2012/08	2016-02-20	ASR10	Sunny	12:12	24-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2016-02-20	ASR5	Sunny	12:33	24-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	2016-02-20	ASR6	Sunny	12:22	24-hour TSP	95	ug/m3
TMCLKL	HY/2012/08	2016-02-23	AQMS1	Cloudy	16:37	24-hour TSP	53	ug/m3
TMCLKL	HY/2012/08	2016-02-23	ASR1	Cloudy	16:27	24-hour TSP	87	ug/m3
TMCLKL	HY/2012/08	2016-02-23	ASR10	Cloudy	15:54	24-hour TSP	61	ug/m3
TMCLKL	HY/2012/08	2016-02-23	ASR5	Cloudy	16:16	24-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2016-02-23	ASR6	Cloudy	16:06	24-hour TSP	65	ug/m3
TMCLKL	HY/2012/08	2016-02-26	AQMS1	Cloudy	12:47	24-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2016-02-26	ASR1	Cloudy	12:36	24-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	2016-02-26	ASR10	Cloudy	12:04	24-hour TSP	64	ug/m3
TMCLKL	HY/2012/08	2016-02-26	ASR5	Cloudy	12:26	24-hour TSP	115	ug/m3
TMCLKL	HY/2012/08	2016-02-26	ASR6	Cloudy	12:16	24-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2016-02-29	AQMS1	Sunny	17:15	24-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	2016-02-29	ASR1	Sunny	17:04	24-hour TSP	115	ug/m3
TMCLKL	HY/2012/08	2016-02-29	ASR10	Sunny	16:52	24-hour TSP	116	ug/m3
TMCLKL	HY/2012/08	2016-02-29	ASR5	Sunny	16:30	24-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2016-02-29	ASR6	Sunny	16:41	24-hour TSP	93	ug/m3

Appendix H

Meteorological Data

[Meteorolog	gical Data for Impact Monitoring in th	e reporting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
16/02/02	0:00	1.3	51
16/02/02	1:00	1.8	46
16/02/02	2:00	0.4	25
16/02/02	3:00	0.4	51
16/02/02	4:00	0.9	26
16/02/02	5:00	0.4	52
16/02/02	6:00	0.4	325
16/02/02	7:00	0.9	330
16/02/02	8:00	0.4	356
16/02/02	9:00	0.9	2
16/02/02	10:00	0.9	63
16/02/02	11:00	0.9	344
16/02/02	12:00	0.9	5
16/02/02	13:00	0.4	3
16/02/02	14:00	0.9	12
16/02/02	15:00	0.9	10
16/02/02	16:00	0.9	348
16/02/02	17:00	0	-
16/02/02	18:00	0	-
16/02/02	19:00	0	-
16/02/02	20:00	0	-
16/02/02	21:00	0	-
16/02/02	22:00	0.4	3
16/02/02	23:00	1.3	51
16/02/03	0:00	1.8	29
16/02/03	1:00	1.8	39
16/02/03	2:00	1.8	41
16/02/03	3:00	0.4	47
16/02/03	4:00	0.4	48
16/02/03	5:00	1.8	62
16/02/03	6:00	1.3	47
16/02/03	7:00	0.4	51
16/02/03	8:00	0.9	50
16/02/03	9:00	1.3	49
16/02/03	10:00	2.2	53
16/02/03	11:00	1.8	62
16/02/03	12:00	1.3	49
16/02/03	13:00	0.4	225
16/02/03	14:00	0.9	10
16/02/03	15:00	0.9	55
16/02/03	16:00	0.9	54
16/02/03	17:00	1.3	57
16/02/03	18:00	1.3	3
16/02/03	19:00	1.3	354
16/02/03	20:00	1.8	39
16/02/03	21:00	0.9	47
16/02/03	22:00	0	-
16/02/03	23:00	0	-
16/02/05	0:00	0.9	344
16/02/05	1:00	0.4	339
16/02/05	2:00	0.9	331
16/02/05	3:00	0.9	347
16/02/05	4:00	0.4	352
16/02/05	5:00	0.9	348

	Meteorolog	gical Data for Impact Monitoring in th	e reporting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
16/02/05	6:00	0.4	300
16/02/05	7:00	0.4	302
16/02/05	8:00	0.4	304
16/02/05	9:00	2.2	6
16/02/05	10:00	1.8	11
16/02/05	11:00	1.3	5
16/02/05	12:00	1.3	96
16/02/05	13:00	1.8	11
16/02/05	14:00	2.7	301
16/02/05	15:00	2.2	315
16/02/05	16:00	2.2	321
16/02/05	17:00	1.8	344
16/02/05	18:00	0.9	342
16/02/05	19:00	0.4	6
16/02/05	20:00	0.4	10
16/02/05	21:00	0.9	13
16/02/05	22:00	1.3	19
16/02/05	23:00	1.8	21
16/02/06	0:00	1.8	16
16/02/06	1:00	1.3	26
16/2/06	2:00	1.8	21
16/02/06	3:00	0.9	19
16/02/06	4:00	1.3	351
16/2/06	5:00	1.8	13
16/02/06	6:00	0.9	12
16/02/06	7:00	0.4	9
16/02/06	8:00	0.9	128
16/02/06	9:00	1.3	33
16/02/06	10:00	2.7	46
16/02/06	11:00	4	52
16/02/06	12:00	4	55
16/02/06	13:00	3.1	10
16/02/06	14:00	3.1	63
16/02/06	15:00	2.2	5
16/02/06	16:00	3.1	10
16/02/06	17:00	2.2	11
16/02/06	18:00	0.9	18
16/02/06	19:00	1.3	355
16/02/06	20:00	1.8	354
16/02/06	21:00	1.3	6
16/02/06	22:00	0.9	22
16/02/06	23:00	0.9	15
16/02/11	0:00	0.9	128
16/02/11	1:00	0.9	96
16/02/11	2:00	1.3	100
16/02/11	3:00	1.3	88
16/02/11	4:00	0.9	131
16/02/11	5:00	0	-
16/02/11	6:00	0	
16/02/11	7:00	0.4	126
16/02/11	8:00	1.8	98
16/02/11	9:00	2.7	105
16/02/11	10:00	1.3	111
10/02/11	10.00	1.J	104

	Meteorolog	gical Data for Impact Monitoring in th	ne reporting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
16/02/11	12:00	0.4	129
16/02/11	13:00	0.4	172
16/02/11	14:00	0.4	221
16/02/11	15:00	0.9	205
16/02/11	16:00	0.9	233
16/02/11	17:00	1.3	88
16/02/11	18:00	1.8	96
16/02/11	19:00	1.8	102
16/02/11	20:00	1.8	114
16/02/11	21:00	1.8	65
16/02/11	22:00	1.3	100
16/02/11	23:00	1.3	94
16/02/12	0:00	1.3	97
16/02/12	1:00	1.3	101
16/02/12	2:00	1.3	88
16/02/12	3:00	0.9	96
16/02/12	4:00	1.3	104
16/02/12	5:00	1.3	104
16/02/12	6:00	1.3	94
16/02/12	7:00	1.3	52
16/02/12	8:00	1.3	94
16/02/12	9:00	1.5	109
16/02/12	1		
16/02/12	10:00	1.3	95
16/02/12	11:00	1.8	111
16/02/12	12:00	1.8	87
16/02/12	13:00	1.8	93
	14:00	2.2	104
16/02/12	15:00	2.2	95
16/02/12	16:00	2.2	99
16/02/12	17:00	1.8	107
16/02/12	18:00	0.9	94
16/02/12	19:00	0.9	168
16/02/12	20:00	1.3	94
16/02/12	21:00	1.3	112
16/02/12	22:00	0.9	175
16/02/12	23:00	0.9	49
16/02/14	0:00	0.4	68
16/02/14	1:00	0.4	66
16/02/14	2:00	0.4	95
16/02/14	3:00	0.4	101
16/02/14	4:00	0.9	84
16/02/14	5:00	0.9	83
16/02/14	6:00	0.4	92
16/02/14	7:00	0	-
16/02/14	8:00	0	-
16/02/14	9:00	0	-
16/02/14	10:00	0	-
16/02/14	11:00	0.9	251
16/02/14	12:00	1.8	263
16/02/14	13:00	1.8	354
16/02/14	14:00	0.9	251
16/02/14	15:00	0.4	301
16/02/14	16:00	1.3	22
16/02/14	17:00	2.2	354

	Meteorolog	gical Data for Impact Monitoring in th	e reporting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
16/02/14	18:00	2.2	6
16/02/14	19:00	1.8	13
16/02/14	20:00	2.7	52
16/02/14	21:00	1.8	52
16/02/14	22:00	1.3	54
16/02/14	23:00	0.9	3
16/02/15	0:00	2.2	62
16/02/15	1:00	5.4	44
16/02/15	2:00	4.5	40
16/02/15	3:00	3.1	56
16/02/15	4:00	2.7	22
16/02/15	5:00	3.6	17
16/02/15	6:00	4.9	35
16/02/15	7:00	4.9	51
16/02/15	8:00	0.9	48
16/02/15	9:00	0.4	43
16/02/15	10:00	0.9	21
16/02/15	11:00	0.9	5
16/02/15	12:00	1.3	4
16/02/15			
16/02/15	13:00	1.8	358
16/02/15	14:00	1.3	2
	15:00	2.2	11
16/02/15	16:00	1.3	4
16/02/15	17:00	0.4	6
16/02/15	18:00	0	-
16/02/15	19:00	0.9	27
16/02/15	20:00	0.9	10
16/02/15	21:00	2.2	62
16/02/15	22:00	3.1	51
16/02/15	23:00	3.1	44
16/02/17	0:00	0.9	358
16/02/17	1:00	0.9	354
16/02/17	2:00	0.9	333
16/02/17	3:00	0.4	50
16/02/17	4:00	0.4	13
16/02/17	5:00	0.4	22
16/02/17	6:00	0	-
16/02/17	7:00	0.4	10
16/02/17	8:00	0.9	9
16/02/17	9:00	0.9	13
16/02/17	10:00	0.9	44
16/02/17	11:00	1.3	22
16/02/17	12:00	0.9	354
16/02/17	13:00	0.9	356
16/02/17	14:00	1.3	38
16/02/17	15:00	0.9	50
16/02/17	16:00	1.3	47
16/02/17	17:00	0.9	38
16/02/17	18:00	0.9	6
16/02/17	19:00	1.3	38
16/02/17	20:00	1.3	22
16/02/17	21:00	0.4	51
16/02/17	22:00	0.4	47
16/02/17	23:00	0.4	50

	Meteorolog	gical Data for Impact Monitoring in th	e reporting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
16/02/18	0:00	0.9	14
16/02/18	1:00	1.3	42
16/02/18	2:00	0.9	51
16/02/18	3:00	0	-
16/02/18	4:00	0	-
16/02/18	5:00	0.4	84
16/02/18	6:00	0	-
16/02/18	7:00	0	-
16/02/18	8:00	0.9	51
16/02/18	9:00	0.9	44
16/02/18	10:00	0.4	40
16/02/18	11:00	0.4	68
16/02/18	12:00	0.4	125
16/02/18	13:00	0.4	17
16/02/18	14:00	0	-
16/02/18	15:00	0.4	10
16/02/18	16:00	0.9	9
16/02/18	17:00	1.3	13
16/02/18	18:00	0.9	19
16/02/18	19:00	0.4	21
16/02/18	20:00	0.4	51
16/02/18	21:00	0	-
16/02/18	22:00	0.4	43
16/02/18	23:00	0.4	50
16/02/20	0:00	0.4	251
16/02/20	1:00	0.4	247
16/02/20	2:00	1.3	63
16/02/20	3:00	2.2	50
16/02/20	4:00	0.9	44
16/02/20	5:00	0	-
16/02/20	6:00	0	-
16/02/20	7:00	0.4	4
16/02/20	8:00	0.4	279
16/02/20	9:00	1.3	6
16/02/20	10:00	1.3	41
16/02/20	11:00	1.3	241
16/02/20	12:00	3.1	60
16/02/20	13:00	2.7	58
16/02/20	14:00	2.7	39
16/02/20	15:00	1.3	41
16/02/20	16:00	0.9	47
16/02/20	17:00	0.9	71
16/02/20	18:00	0.4	180
16/02/20	19:00	0.4	11
16/02/20	20:00	0	-
16/02/20	21:00	0	-
16/02/20	22:00	0	-
16/02/20	23:00	0	
16/02/21	0:00	0	
16/02/21	1:00	0	-
16/02/21	2:00	0	-
16/02/21	3:00	1.3	94
16/02/21	4:00	1.8	104
16/02/21	5:00	1.3	8

	Meteorolog	gical Data for Impact Monitoring in th	e reporting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
16/02/21	6:00	2.2	79
16/02/21	7:00	2.7	81
16/02/21	8:00	2.7	83
16/02/21	9:00	3.1	119
16/02/21	10:00	4.9	124
16/02/21	11:00	4	96
16/02/21	12:00	3.6	122
16/02/21	13:00	3.1	123
16/02/21	14:00	3.1	115
16/02/21	15:00	3.1	94
16/02/21	16:00	3.1	90
16/02/21	17:00	3.6	88
16/02/21	18:00	3.6	87
16/02/21	19:00	4.9	133
16/02/21	20:00	5.8	105
16/02/21	21:00	5.8	127
16/02/21	21:00	5.4	1127
16/02/21	22:00	6.3	124
16/02/23	0:00	0	124
16/02/23			-
16/02/23	1:00	0	-
16/02/23	2:00	0.4	121
	3:00	0.4	48
16/02/23	4:00	0.4	96
16/02/23	5:00	0.4	43
16/02/23	6:00	0.9	22
16/02/23	7:00	0.9	44
16/02/23	8:00	1.8	40
16/02/23	9:00	0.9	39
16/02/23	10:00	0.4	52
16/02/23	11:00	1.8	55
16/02/23	12:00	1.8	47
16/02/23	13:00	0.4	13
16/02/23	14:00	0	-
16/02/23	15:00	0.9	12
16/02/23	16:00	1.8	15
16/02/23	17:00	0.4	349
16/02/23	18:00	0.4	351
16/02/23	19:00	0.4	342
16/02/23	20:00	1.3	61
16/02/23	21:00	1.3	24
16/02/23	22:00	1.8	51
16/02/23	23:00	2.2	60
16/02/24	0:00	1.8	57
16/02/24	1:00	0.9	49
16/02/24	2:00	0.4	22
16/02/24	3:00	0.4	304
16/02/24	4:00	0.4	31
16/02/24	5:00	0.9	7
16/02/24	6:00	1.3	36
16/02/24	7:00	0.9	51
16/02/24	8:00	0.4	10
16/02/24	9:00	0.9	8
16/02/24	10:00	1.8	39
16/02/24	11:00	3.1	42

Time (24hrs) 12:00	ical Data for Impact Monitoring in the Average of Wind Speed (m/s)	Average of Wind Direction(degree)
12:00		
	3.1	51
13:00	3.1	46
14:00	2.7	48
	1.8	52
		40
		48
18:00	1.3	6
19:00	0.9	12
20:00	1.3	23
21:00	1.8	39
22:00	2.2	48
23:00	1.8	50
0:00	1.3	44
1:00	1.3	33
2:00	0.9	20
3:00	1.3	7
		51
		63
		55
		49
		53
		98
		37
		-
		254
		3
		358
		12
		9
		6
		352
		320
		357
		3
		12
		5
		354
		356
		344
		-
		3
		358
		12
		14
		349
		6
		357
		5
		274
		321
		332
		306
		317
		3
	20:00 21:00 22:00 23:00 0:00 1:00 2:00	16:00 1.8 17:00 1.3 18:00 1.3 19:00 0.9 20:00 1.3 21:00 1.8 22:00 2.2 23:00 1.8 0:00 1.3 1:00 1.3 1:00 1.3 2:00 2.2 5:00 2.2 5:00 2.2 6:00 2.7 7:00 2.2 6:00 2.7 7:00 2.2 8:00 1.3 9:00 0.9 10:00 0.4 11:00 0 12:00 0.4 13:00 1.3 14:00 1.8 15:00 1.8 16:00 1.8 16:00 1.8 19:00 0.4 19:00 0.4 19:00 0.4 19:00 0.4 19:00 0.4 19:00 0.4 10:00 1.

	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)				
16/02/27	18:00	0.4	359				
16/02/27	19:00	0.4	326				
16/02/27	20:00	0.9	348				
16/02/27	21:00	1.3	5				
16/02/27	22:00	0.9	61				
16/02/27	23:00	1.3	48				
16/2/29	0:00	1.3	89				
16/2/29	1:00	0.9	92				
16/2/29	2:00	0.4	122				
16/2/29	3:00	1.3	99				
16/2/29	4:00	2.2	50				
16/2/29	5:00	2.2	58				
16/2/29	6:00	0.4	43				
16/2/29	7:00	0.4	52				
16/2/29	8:00	0	-				
16/2/29	9:00	0.4	103				
16/2/29	10:00	0.4	185				
16/2/29	11:00	0.4	206				
16/2/29	12:00	0.9	257				
16/2/29	13:00	1.3	271				
16/2/29	14:00	1.3	280				
16/2/29	15:00	1.3	273				
16/2/29	16:00	1.8	301				
16/2/29	17:00	1.8	311				
16/2/29	18:00	0.9	9				
16/2/29	19:00	1.8	344				
16/2/29	20:00	0.4	342				
16/2/29	21:00	0	-				
16/2/29	22:00	0	-				
16/2/29	23:00	0	-				

Appendix I

Impact Dolphin Monitoring Survey

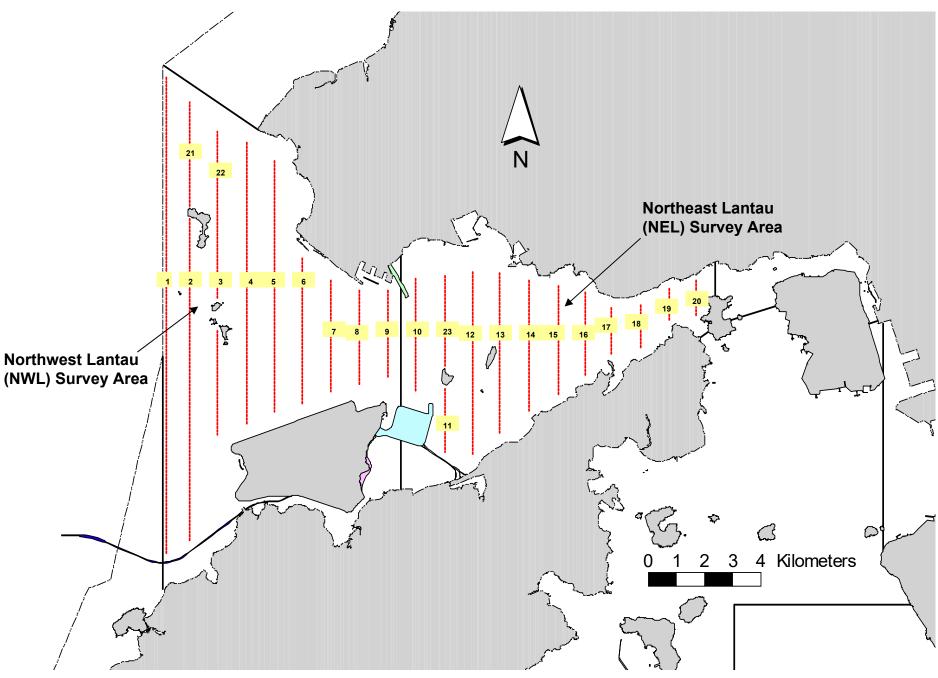


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

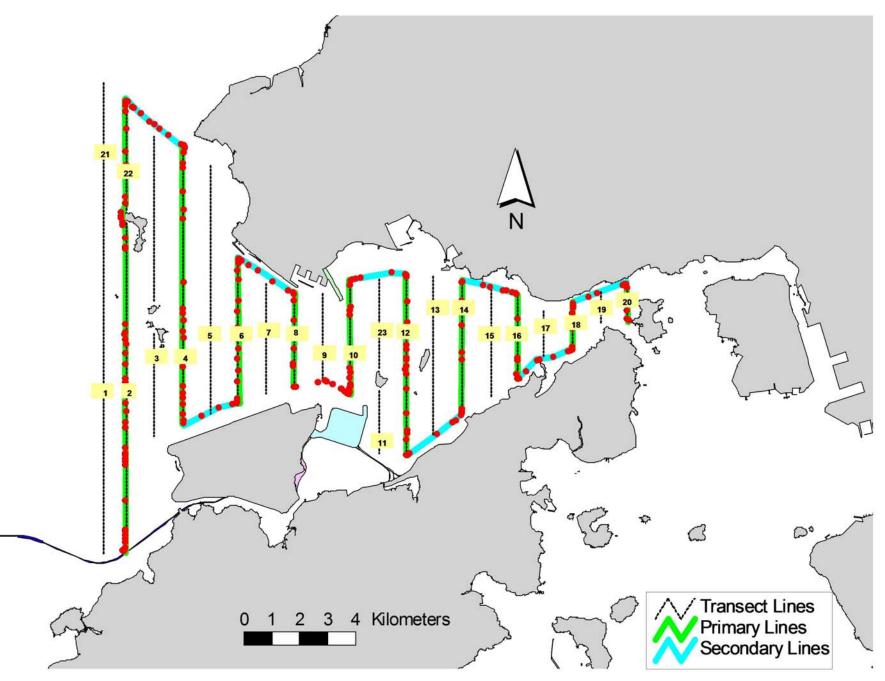


Figure 2. Survey Route on February 2nd, 2016 (from HKLR03 project)

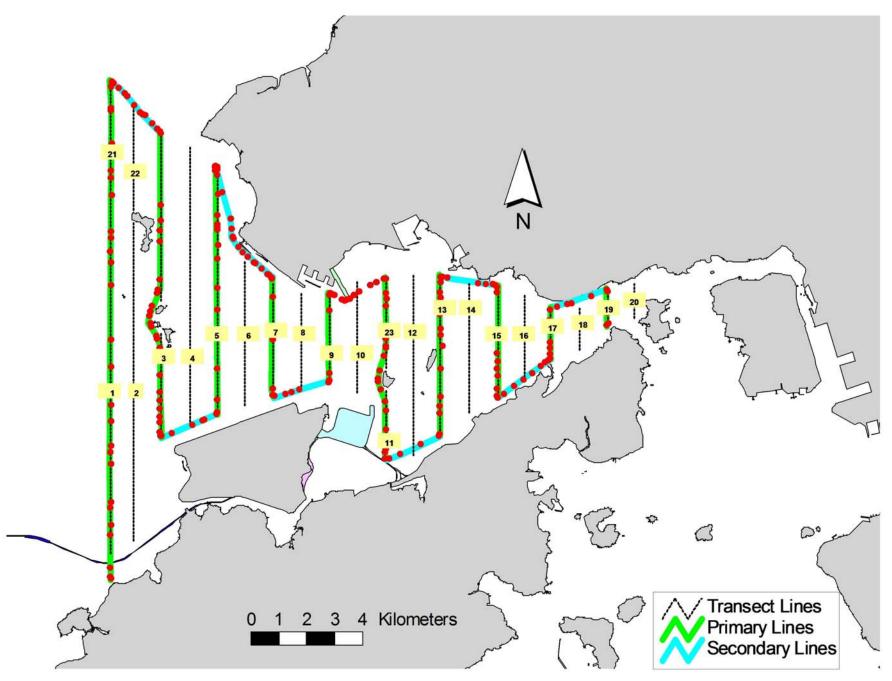


Figure 3. Survey Route on February 3rd, 2016 (from HKLR03 project)

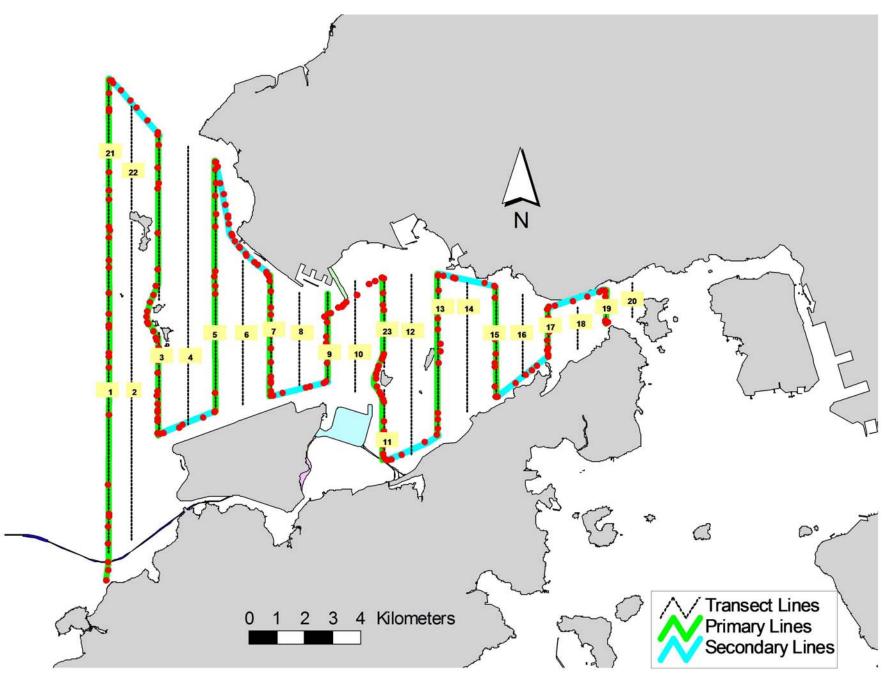


Figure 4. Survey Route on February 16th, 2016 (from HKLR03 project)

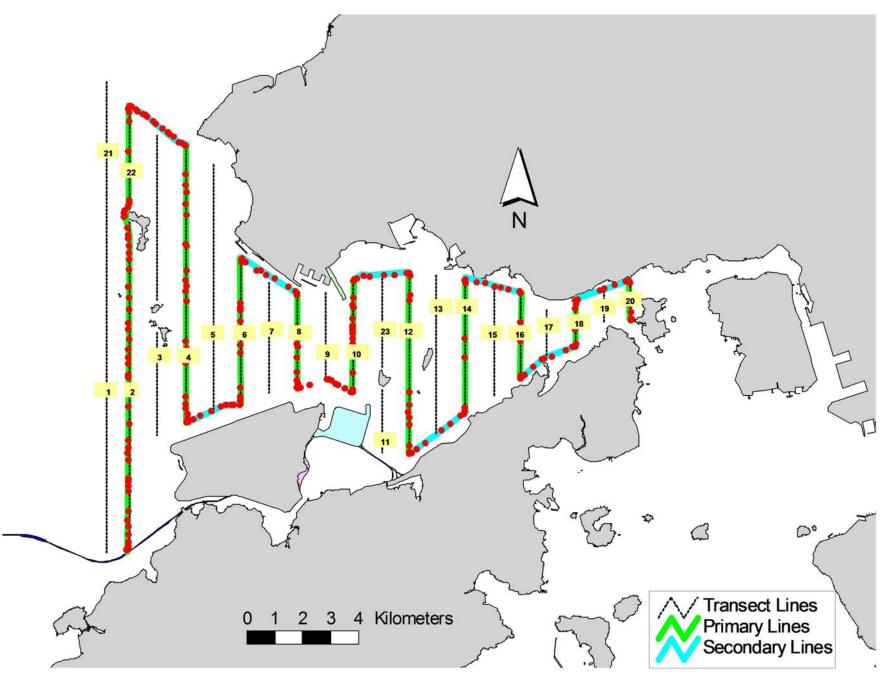


Figure 5. Survey Route on February 22nd, 2016 (from HKLR03 project)

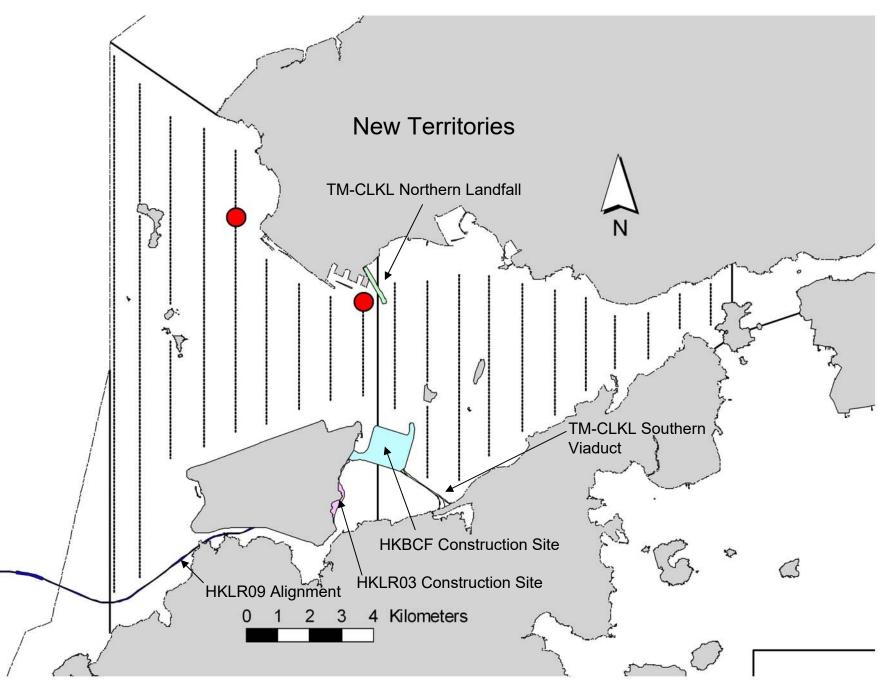


Figure 6. Distribution of Chinese White Dolphin Sightings During February 2016 HKLR03 Monitoring Surveys

Appendix I. HKLR03 Survey Effort Database (February 2016)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
2-Feb-16	NE LANTAU	2	20.46	WINTER	STANDARD31516	HKLR	Р
2-Feb-16	NE LANTAU	2	6.05	WINTER	STANDARD31516	HKLR	S
2-Feb-16	NE LANTAU	3	4.59	WINTER	STANDARD31516	HKLR	S
2-Feb-16	NW LANTAU	2	6.80	WINTER	STANDARD31516	HKLR	Р
2-Feb-16	NW LANTAU	3	26.28	WINTER	STANDARD31516	HKLR	Р
2-Feb-16	NW LANTAU	2	2.32	WINTER	STANDARD31516	HKLR	S
2-Feb-16	NW LANTAU	3	4.50	WINTER	STANDARD31516	HKLR	S
3-Feb-16	NW LANTAU	2	21.30	WINTER	STANDARD31516	HKLR	Р
3-Feb-16	NW LANTAU	3	19.74	WINTER	STANDARD31516	HKLR	Р
3-Feb-16	NW LANTAU	2	10.82	WINTER	STANDARD31516	HKLR	S
3-Feb-16	NW LANTAU	3	2.24	WINTER	STANDARD31516	HKLR	S
3-Feb-16	NE LANTAU	1	1.82	WINTER	STANDARD31516	HKLR	Р
3-Feb-16	NE LANTAU	2	14.48	WINTER	STANDARD31516	HKLR	Р
3-Feb-16	NE LANTAU	1	2.49	WINTER	STANDARD31516	HKLR	S
3-Feb-16	NE LANTAU	2	8.08	WINTER	STANDARD31516	HKLR	S
16-Feb-16	NW LANTAU	2	6.05	WINTER	STANDARD31516	HKLR	Р
16-Feb-16	NW LANTAU	3	31.35	WINTER	STANDARD31516	HKLR	Р
16-Feb-16	NW LANTAU	4	3.00	WINTER	STANDARD31516	HKLR	Р
16-Feb-16	NW LANTAU	2	5.70	WINTER	STANDARD31516	HKLR	S
16-Feb-16	NW LANTAU	3	4.80	WINTER	STANDARD31516	HKLR	S
16-Feb-16	NW LANTAU	4	3.10	WINTER	STANDARD31516	HKLR	S
16-Feb-16	NE LANTAU	1	1.10	WINTER	STANDARD31516	HKLR	Р
16-Feb-16	NE LANTAU	2	15.25	WINTER	STANDARD31516	HKLR	Р
16-Feb-16	NE LANTAU	1	1.40	WINTER	STANDARD31516	HKLR	S
16-Feb-16	NE LANTAU	2	8.16	WINTER	STANDARD31516	HKLR	S
16-Feb-16	NE LANTAU	3	1.09	WINTER	STANDARD31516	HKLR	S
22-Feb-16	NE LANTAU	2	20.26	WINTER	STANDARD31516	HKLR	Р
22-Feb-16	NE LANTAU	2	9.08	WINTER	STANDARD31516	HKLR	S
22-Feb-16	NE LANTAU	3	1.86	WINTER	STANDARD31516	HKLR	S
22-Feb-16	NW LANTAU	2	14.88	WINTER	STANDARD31516	HKLR	Р
22-Feb-16	NW LANTAU	3	16.99	WINTER	STANDARD31516	HKLR	Р
22-Feb-16	NW LANTAU	2	2.43	WINTER	STANDARD31516	HKLR	S
22-Feb-16	NW LANTAU	3	5.10	WINTER	STANDARD31516	HKLR	S
22-Feb-16	NW LANTAU	4	0.30	WINTER	STANDARD31516	HKLR	S

Appendix II. HKLR03 Chinese White Dolphin Sighting Database (February 2016) (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

DATE	STG #	TIME	HRD SZ	AREA	BEAU	PSD	EFFORT	TYPE	NORTHING	EASTING	SEASON	BOAT ASSOC.	P/S
3-Feb-16	1	1318	5	NW LANTAU	3	28	ON	HKLR	826580	808505	WINTER	NONE	Р
16-Feb-16	1	1414	6	NW LANTAU	3	145	ON	HKLR	824082	812518	WINTER	NONE	Р

Appendix III. Individual dolphins identified during HKLR03 monitoring surveys in February 2016

ID#	DATE	STG#	AREA
NL48	03/02/16	1	NW LANTAU
	16/02/16	1	NW LANTAU
NL136	16/02/16	1	NW LANTAU
NL182	16/02/16	1	NW LANTAU
NL210	03/02/16	1	NW LANTAU
NL261	03/02/16	1	NW LANTAU
NL284	16/02/16	1	NW LANTAU
NL285	03/02/16	1	NW LANTAU
	16/02/16	1	NW LANTAU
NL320	03/02/16	1	NW LANTAU
WL17	16/02/16	1	NW LANTAU



Appendix IV. Photographs of Identified Individual Dolphins in February 2016 (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.	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	0	30
	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	1	4

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

Reporting Period	Cumulative Statistics				
	Complaints	Notifications of Summons	Successful Prosecutions		
This Reporting Month (February 2016)	0	0	0		
Total No. received since project commencement	4	0	0		

Appendix L

Waste Flow Table



Monthly Summary Waste Flow Table Name of Department:

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

Monthly Summary Waste Flow Table for <u>February 2016</u>

HyD

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

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

	Monthly Break-down of <u>Inert</u> 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	930.268	0.000	0.000	0.000	930.268			
Jan-2016	24.068	0.000	0.000	0.000	24.068			
Feb-2016	9.229	0.000	0.000	0.000	9.229			
Mar-2016								
Apr-2016								
May-2016								
Jun-2016								
Half Year Sub-total								
Jul-2016								
Aug-2016								
Sep-2016								
Oct-2016								
Nov-2016								
Dec-2016								
Project Total Quantities	963.565	0.000	0.000	0.000	963.565			



	Actual Quantities of <u>Non-inert</u> Construction Waste Generated Monthly								
Month	Metals		Paper/ cardboard packaging		Plastics (see Note 3) (in '000kg)		Chemical Waste (in '000kg)		Others, e.g. General Refuse disposed at Landfill (in '000ton)
	(in '000kg)		(in '000kg)						
	generated	recycled	generated	recycled	generated	recycled	generated	Disposed	generated
Sub-total	0.000	0.000	2.150	2.150	6.870	6.870	1.710	1.710	2.217
Jan-2016	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.113
Feb-2016	1.850	1.850	0.000	0.000	0.000	0.000	4.740	4.740	0.102
Mar-2016									
Apr-2016									
May-2016									
Jun-2016									
Half Year Sub-total									
Jul-2016									
Aug-2016									
Sep-2016									
Oct-2016									
Nov-2016									
Dec-2016									
Project Total Quantities	1.850	1.850	2.150	2.150	6.870	6.870	6.450	6.450	2.432



Forecast of Total Quantities of Construction and Demolition Materials to be Generated from the Contract*						
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in other Projects	Disposed of as Public Fill			
(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 packagingPlastics (see Note 3)Chemical WasteGeneral Refuse disposed of at				
(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 ton)	
0.000	0.000	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).