

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

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

10 August 2017

#### **Environmental Resources Management**

16/F, Berkshire House 25 Westlands Road Quarry Bay, Hong Kong Telephone 2271 3000 Facsimile 2723 5660



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11 August 2017

By Fax (2293 6300) and By Post

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

Attention: Messrs. Andy Westmoreland / Roger Man

Dear Sirs,

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

Contract No. HY/2012/08 TM-CLKL Northern Connection Sub-sea Tunnel Section <u>45<sup>th</sup> Monthly EM&A Report for July 2017 (EP-354/2009/D)</u>

Reference is made to the Monthly Environmental Monitoring and Audit (EM&A) Report (July 2017) (ET's ref.: "0212330\_45th Monthly EM&A\_20170810.doc" dated 10 Aug. 2017) certified by the ET Leader and provided to us via e-mail on 11 Aug. 2017.

Please be informed that we have no adverse comments on the captioned Report. We write to verify the captioned submission in accordance with Condition 4.4 of EP-354/2009/D. Please be reminded that our verification of this report does not release any obligations under the EM&A Manual or under the applicable Environmental Permit for this Project, including obtaining prior agreement from the relevant authorities for any proposed changes to the EM&A programme as per Condition 4.1 of the EP.

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

Yours sincerely,

aftables of

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

c.c.

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

Internal: DY, YH, PSC, ENPO Site

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

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

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#### Environmental Resources Management

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We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.		🛛 Pu	blic			
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#### EXECUTIVE SUMMARY

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

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

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

#### Land-based Works

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

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

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

24-hour TSP Monitoring	10 sessions
1-hour TSP Monitoring	10 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

Three (3) Action Level exceedances and zero (0) Limit Level exceedance of 1hour TSP were recorded in the air quality monitoring of this reporting month. Investigation report is provided in Appendix K.

#### 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 August 2017 include the following:

#### Land-based Works

- Box Culvert Extension at Works Area Portion N-A;
- Construction of North Ventilation Building Portion N-C;
- Construction of Cross Passage Tympanum TBM tunnel;
- Cross Passage Lining Installation TBM Tunnel;

- Excavation of Sub-sea Tunnel TBM tunnel;
- Corbel Construction TBM Tunnel; and
- Bulk Excavation Portion S-A.

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

#### Future Key Issues

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

#### 1.1 BACKGROUND

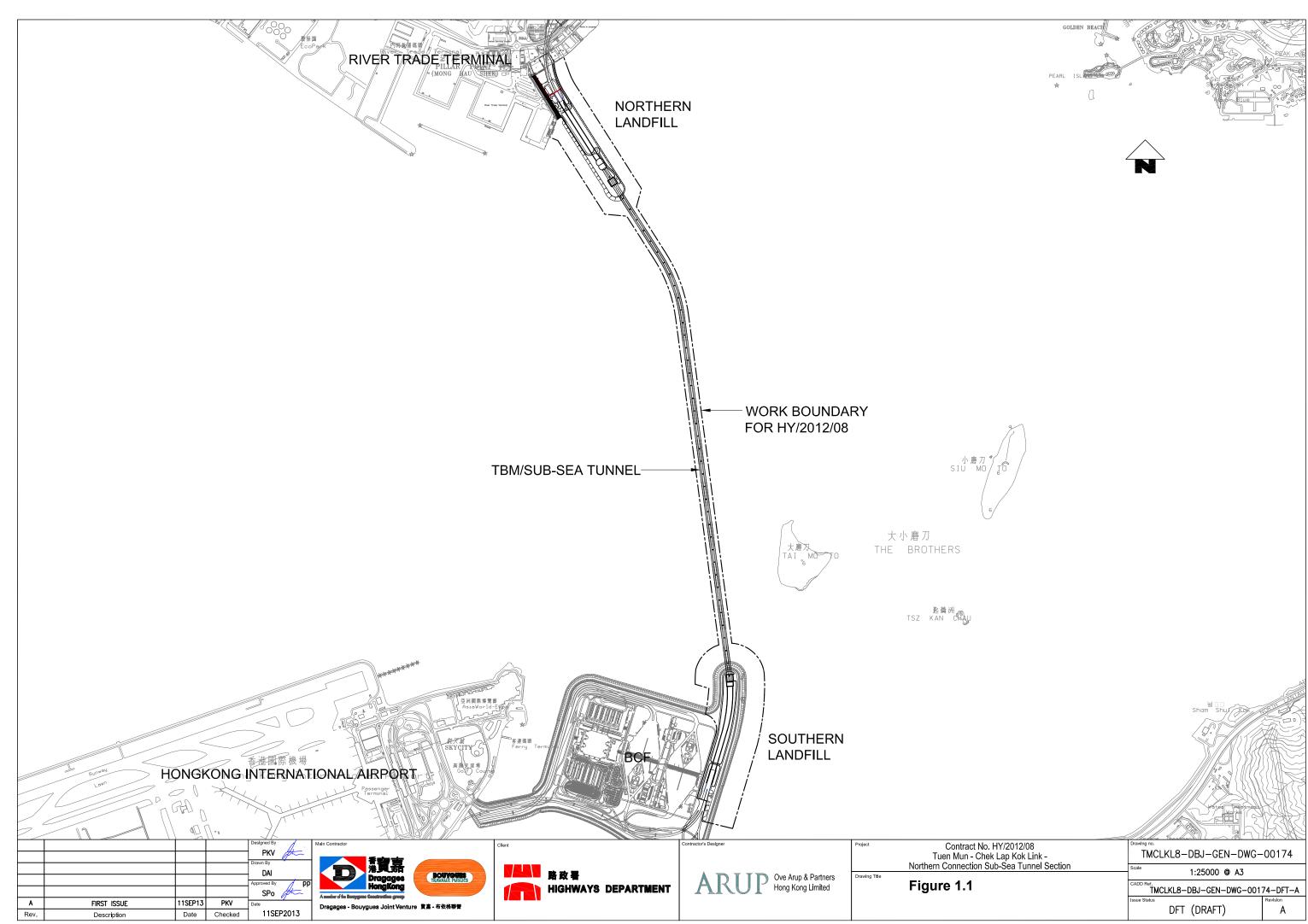
According to the findings of the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by the Transport Department, Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway would be operating beyond capacity after 2016. This forecast has been based on the estimated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

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

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

Layout of the Contract components is presented in Figure 1.1.

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



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#### 1.2 SCOPE OF REPORT

This is the Forty-fifth 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 July 2017.

#### 1.3 ORGANIZATION STRUCTURE

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

#### Table 1.1Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
Highways Department	Engr 22/HZMB	Chow Man Lung, Andrew	2762 4110	2762 4110
SOR (AECOM Asia Company	Chief Resident Engineer	Roger Man	2293 6388	2293 6300
Limited)	0	Andrew Westmoreland	2293 6360	2293 6300
ENPO / IEC (Ramboll Environ Hong	ENPO Leader	Y.H. Hui	3465 2850	3465 2899
Kong Ltd.)	IEC	C Dr. F.C. Tsang		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*.

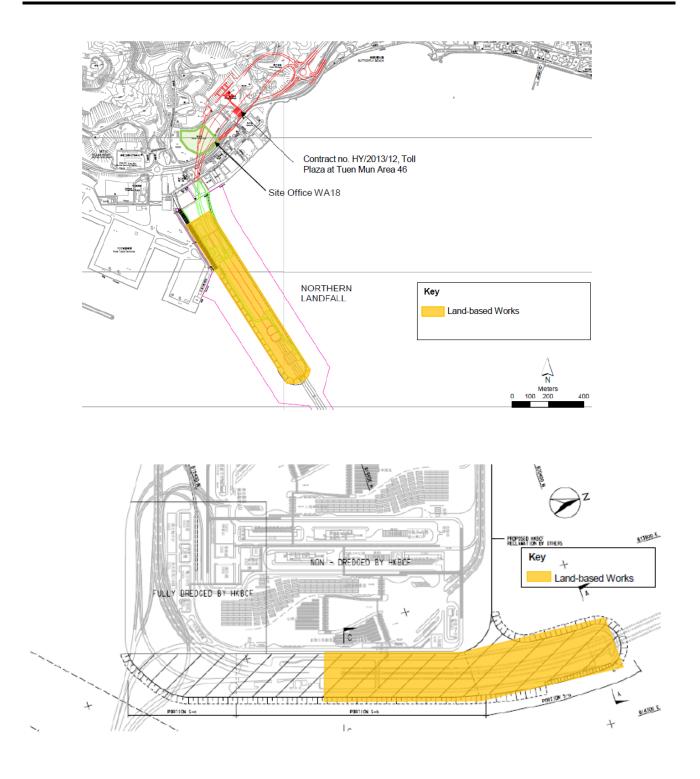
The implementation schedule of environmental mitigation measures is presented in *Appendix C*.

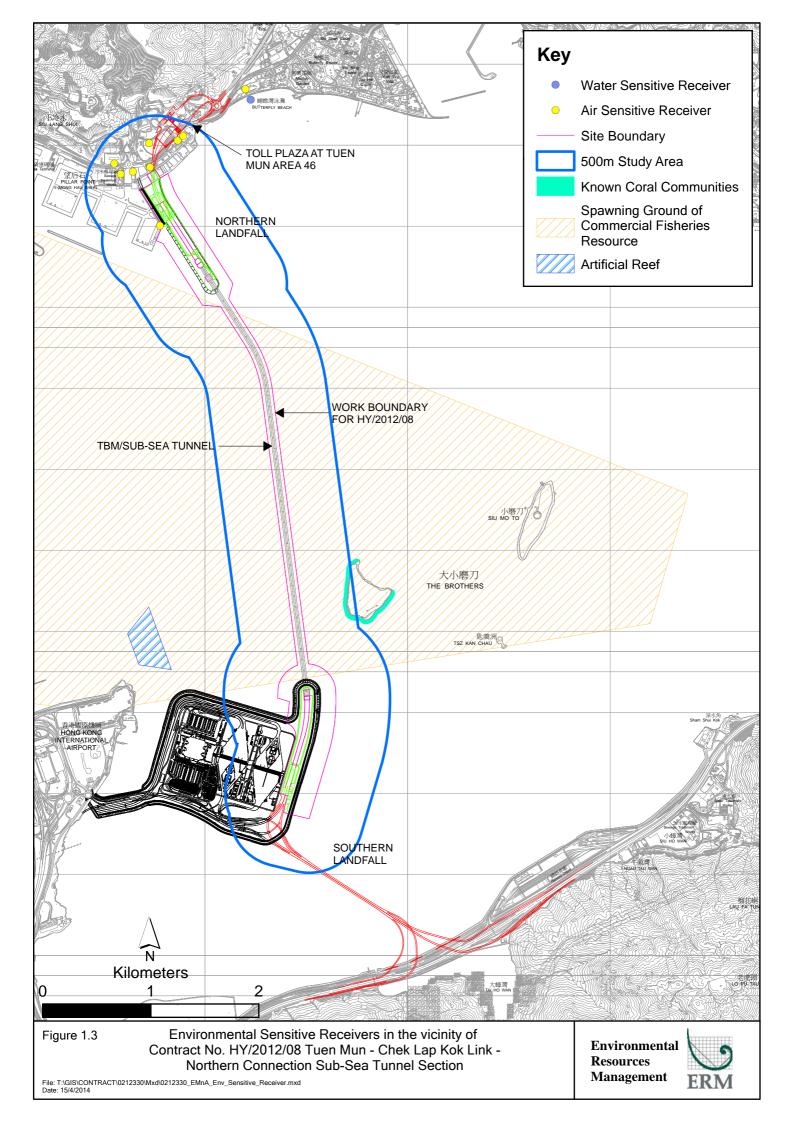
#### Table 1.2Summary of Construction Activities Undertaken during the Reporting Period

•	Construction Activities Undertaken										
	Land-based Works										
	п	$O_{1}$		•		1 4	n		NT A		

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

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





2

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

#### 2.1 AIR QUALITY

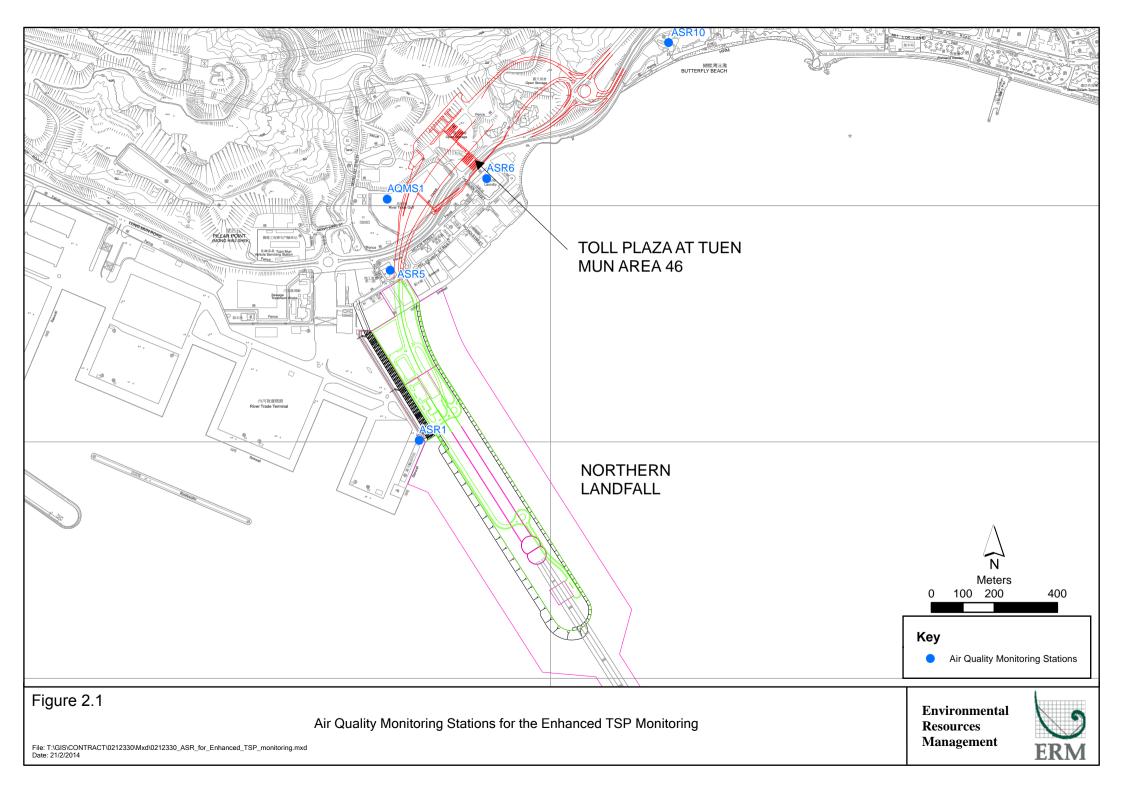
#### 2.1.1 Monitoring Requirements and Equipment

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

High volume samplers (HVSs) were used to carry out the 1-hour and 24-hour TSP monitoring on 2, 5, 8, 11, 14, 17, 20, 23, 26 and 29 July 2017 at the five (5) air quality monitoring stations in accordance with the requirements stipulated in the Updated EM&A Manual (*Figure 2.1; Table 2.1*). Wind meter was installed at the rooftop of ASR5 for logging wind speed and wind direction. Details of the equipment deployed are provided in *Table 2.2*. Copies of the calibration certificates for the equipment are presented in *Appendix E*.

<b>Monitoring Station</b>	Monitoring Dates	Location	Description	Parameters & Frequency
ASR1	2, 5, 8, 11, 14, 17, 20,	Tuen Mun	Office	TSP monitoring
	23, 26 and 29 July	Fireboat Station		• 1-hour Total Suspended
	2017			Particulates (1-hour TSP,
ASR5		Pillar Point Fire	Office	$\mu$ g/m <sup>3</sup> ), 3 times in every 6 day
		Station		• 24-hour Total Suspended
				Particulates (24-hour TSP,
AQMS1		Previous River	Bare ground	$\mu$ g/m <sup>3</sup> ), 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	$\mu$ g/m <sup>3</sup> ), 3 times in every 3 days
		Park	uses	• 24-hour Total Suspended
				Particulates (24-hour TSP,
				$\mu$ g/m <sup>3</sup> ), daily for 24-hour in
				every 3 days

## Table 2.1Locations of Impact Air Quality Monitoring Stations and Monitoring Dates<br/>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: Vantage Pro 2 (S/N: AS160104014)
Wind Anemometer for calibration	Lutron (Model No. AM-4201)

#### 2.1.2 Action & Limit Levels

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

#### 2.1.3 Monitoring Schedule for the Reporting Month

The schedule for air quality monitoring in July 2017 is provided in *Appendix F*.

#### 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	83	40 - 225	331	500
ASR5	92	32 - 370	340	500
AQMS1	66	30 - 224	335	500
ASR6	86	36 - 401	338	500
ASR10	69	37 - 475	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	71	39 - 152	213	260
ASR5	50	34 - 100	238	260
AQMS1	44	35 - 77	213	260
ASR6	50	38 - 114	238	260
ASR10	46	21 - 99	214	260

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

A total of 10 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

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

#### 2.3 DOLPHIN MONITORING

#### 2.3.1 Monitoring Requirements

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

#### 2.3.2 Monitoring Equipment

*Table 2.7* summarises the equipment used for the impact dolphin monitoring.

Table 2.5Dolphin Monitoring Equipment

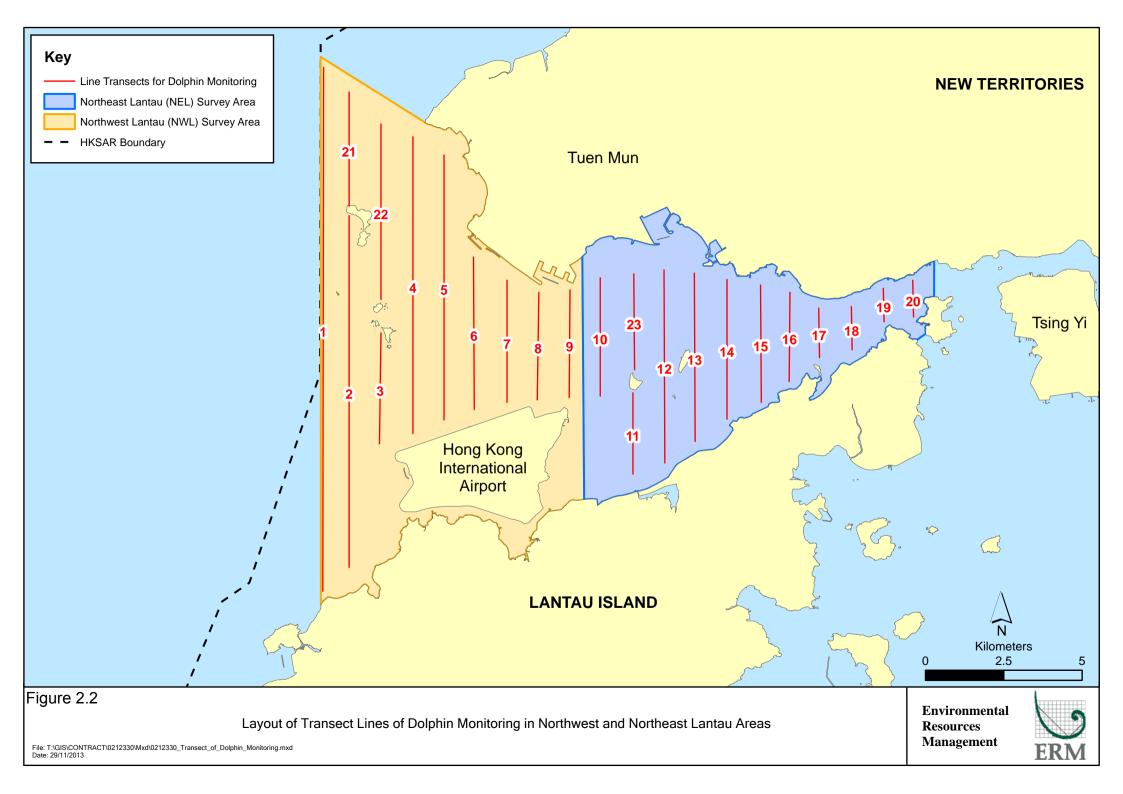
Equipment	Model			
Global Positioning System (GPS)	Garmin 18X-PC			
	Geo One Phottix			
Camera	Nikon D90 300m 2.8D fixed focus			
	Nikon D90 20-300m zoom lens			
Laser Binocular	Infinitor LRF 1000			
Marine Binocular	Bushell 7 x 50 marine binocular with compass and reticules			
Vessel for Monitoring	65 foot single engine motor vessel with viewing platform 4.5m above water level			

#### 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 2.8* 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 20, 24, 27 and 28 of July 2017. The dolphin monitoring schedule for the reporting month is shown in *Appendix F*.

#### 2.3.7 Results & Observations

A total of 265.21 km of survey effort was collected, with 99.4% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) in July 2017. Among the two areas, 96.30 km and 168.91 km of survey effort were collected from NEL and NWL survey areas, respectively. The total survey effort conducted on primary and secondary lines were 194.61 km and 70.60 km respectively. The survey efforts are summarized in *Appendix I*.

Two groups of 11 Chinese White Dolphins sightings were recorded during the two sets of surveys in July 2017. Both dolphin sightings were made in NWL, while none was sighted in NEL. Both dolphin sightings were made during on-effort search and one of the two dolphin sightings was made on primary lines. These sightings were not associated with any operating fishing vessel.

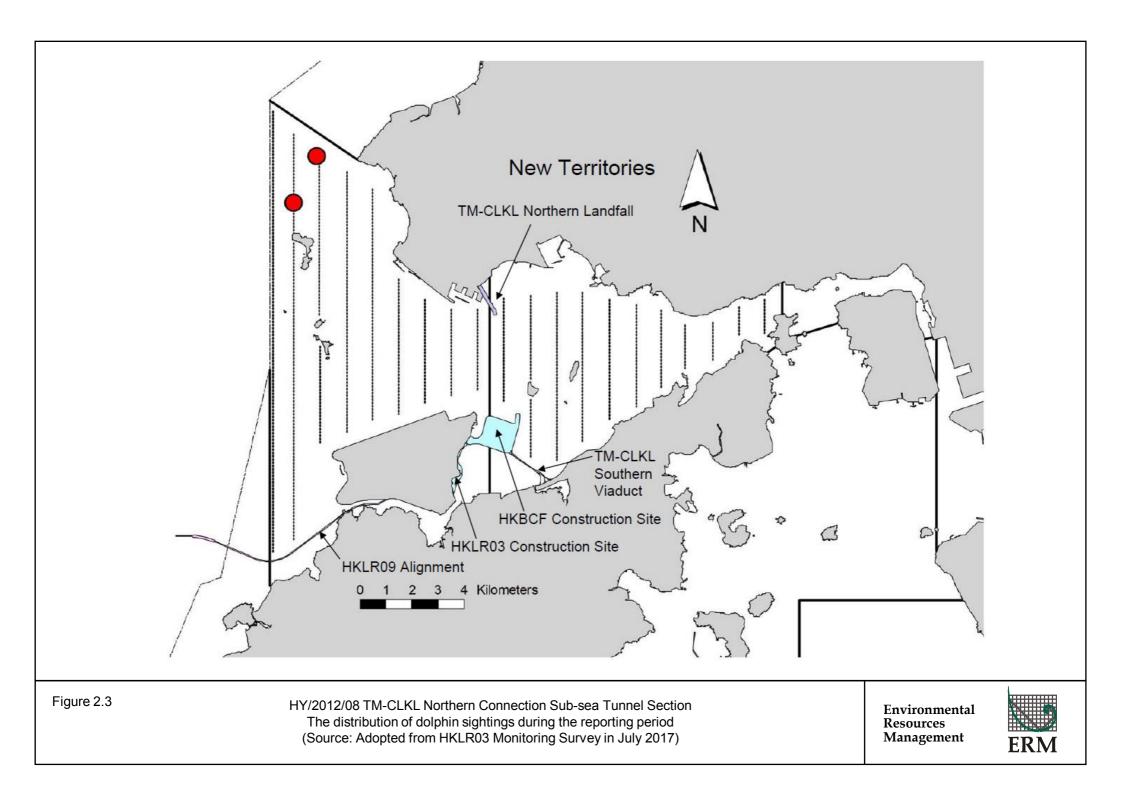
No dolphin sighting was made in the proximity of the TM-CLKL alignment. The distribution of dolphin sightings during the reporting month is shown in *Figure 2.3*.

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

#### Table 2.7Individual Survey Event Encounter Rates

		Encounter rate (STG)	Encounter rate (ANI)		
		(no. of on-effort dolphin	(no. of dolphins from all on-		
		sightings per 100 km of	effort sightings per 100 km o		
		survey effort)	survey effort)		
		Primary Lines Only	Primary Lines Only		
NEL	Set 1: July 20th / 24th	0.0	0.0		
INEL	Set 2: July 27th / 28th	0.0	0.0		
NWL	Set 1: July 20th / 24th	1.64	14.79		
	Set 2: July 27th / 28th	0.0	0.0		

Note: Dolphin Encounter Rates are deduced from the Two Sets of Surveys (Two Surveys in Each Set) in July 2017 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 of 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	0.8	1.2	7.3	6.6		

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

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

#### 2.3.8 Implementation of Marine Mammal Exclusion Zone

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

#### 2.4 EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting month, four (4) site inspections were carried out on 5, 12, 19 and 26 July 2017.

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

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

Inspection Date	Observations	Recommendations/ Remarks
5 July 2017	<ul> <li>Works Area - TBM Tunnel</li> <li>Cement bags should be covered with tarpaulin sheets.</li> <li>Drip tray should be provided to the chemical containers.</li> <li>Works Area - Portion S-B</li> <li>Stagnant water should be pumped to the wastewater treatment facility.</li> <li>Accumulated rubbish should be put in the skip.</li> </ul>	<ul> <li>Works Area - TBM Tunnel</li> <li>The Contractor was reminded to cover the cement bags with tarpaulin sheets.</li> <li>The Contractor was reminded to provide drip tray to the chemical containers.</li> <li>Works Area - Portion S-B</li> <li>The Contractor was reminded to pump the stagnant water to the wastewater treatment facility.</li> <li>The Contractor was reminded to put the accumulated rubbish in the skip.</li> </ul>
12 July 2017	<ul> <li>Works Area - Portion N-C</li> <li>Accumulated waste in the skip should be removed.</li> <li>Works Area - Portion S-B</li> <li>Accumulated waste in the skip should be removed.</li> </ul>	<ul> <li>Works Area - Portion N-C</li> <li>The Contractor was reminded to remove the accumulated waste in the skip.</li> <li>Works Area - Portion S-B</li> <li>The Contractor was reminded to remove the accumulated waste in the skip.</li> </ul>
19 July 2017	<ul> <li>Works Area - Portion S-B</li> <li>Sand bags should be provided to prevent the leakage of cement water to the main road.</li> </ul>	<ul> <li>Works Area - Portion S-B</li> <li>The Contractor was reminded to provide sand bags to prevent the leakage of cement water to the main road.</li> </ul>
26 July 2017	<ul> <li>Reminder from SOR.</li> <li>Works Area - Portion N-A</li> <li>The abandoned wheel washing facilities should be filled up with sand to avoid breeding of mosquitoes.</li> </ul>	<ul> <li>Reminder from SOR.</li> <li>Works Area - Portion N-A</li> <li>The Contractor was reminded to fill the abandoned wheel washing facilities with sand to avoid breeding of mosquitoes.</li> </ul>

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

#### 2.5 WASTE MANAGEMENT STATUS

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

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

Table 2.10Quantities of Different Waste Generated in the Reporting Month

Month/Year	InertInertConstructionConstructionWaste (a)Waste Re-(tonnes)used(tonnes)(tonnes)	onstruction Construction Constr	Non-inert Construction	Materials (c)	Chemical Wastes	Marine Sediment (m <sup>3</sup> )		
		Waste <sup>(b)</sup> (tonnes)	(kg)	(kg)	Category L	Category M (M <sub>p</sub> & M <sub>f</sub> )		
July 2017	652	0	272	0	0	0	0	
Notes:								

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

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

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

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

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

#### 2.6 Environmental Licenses and Permits

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

License/ Permit	License or Permit No.	Date of Issue	Date of Expiry	License/ Permit Holder	
Environmental Permit	EP-354/2009/D	13 March 2015	Throughout the Contract	HyD	Application for VEP on 3 March 2015 to
					supersede EP-354/2009/C
Construction Dust	363510	19 August 2013	Throughout the Contract	DBJV	Northern Landfall
Notification					
Construction Dust	403620	10 June 2016	Throughout the Contract	DBJV	Southern Landfall
Notification					
Chemical Waste	5213-422-D2516-01	10 September 2013	Throughout the Contract	DBJV	Northern Landfall
Registration		Ĩ	0	-	
Chemical Waste	5213-422-D2516-02	18 January 2017	Throughout the Contract	DBJV	Northern Landfall
Registration		,	0	,	
Chemical Waste	5213-951-D2591-01	25 May 2016	Throughout the Contract	DBJV	Southern Landfall
Registration					
Construction Waste	7018108	28 August 2013	Throughout the Contract	DBJV	Waste disposal in Contract No. HY/2012/08
Disposal Account					
Masta Mater Dischause	MT00017707 0010	18 November 2013	30 November 2018	עומכו	For site WA18
Waste Water Discharge License	WT00017707-2013	18 November 2013	50 November 2018	DBJV	FOR SITE WA18
	M7T00010040 0014	E Luce 2014	20 Luce 2010		For the Death of NZ and Dealers that Area F
Waste Water Discharge License	WT00019248-2014	5 June 2014	30 June 2019	DBJV	For site Portion N6 and Reclamation Area E
Waste Water Discharge	WT00025944-2016	15 December 2016	31 December 2021	DBJV	Southern Landfall
License	11100020711 2010				
Construction Noise Permit	GW-RW0247-17	19 May 2017	9 November 2017	DBJV	For Urmston Road in front of Pillar Point
Construction Noise Permit	GW-RW0279-17	13 June 2017	12 December 2017	DBJV	WA23 @ Tsing Yi
Construction Noise Permit	PP-RS0012-17	13 June 2017	30 August 2017	DBJV	Southern Landfall
	CIAL DIA10140 17	29 March 2017	28 September 2017	DBJV	For Portion N6
Construction Noise Permit	GW-RW0143-17	29 Warth 2017	20 0001001 2017	eej,	10110100000

#### Table 2.11Summary of Environmental Licensing and Permit Status

ENVIRONMENTAL RESOURCES MANAGEMENT

License/ Permit	License or Permit No.	Date of Issue	Date of Expiry	License/ Permit Holder Remarks				
HyD = Highways Depar	rtment							
DBJV = Dragages – Bouygues Joint Venture								
VEP = Variation of Envi	ronmental Permit							

#### 2.7 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

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

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

# 2.8 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

Three (3) Action Level or Limit Level of air quality exceedances were recorded in the air quality monitoring of this reporting month. Investigation report is provided in Appendix K.

Cumulative statistics are provided in *Appendix K*.

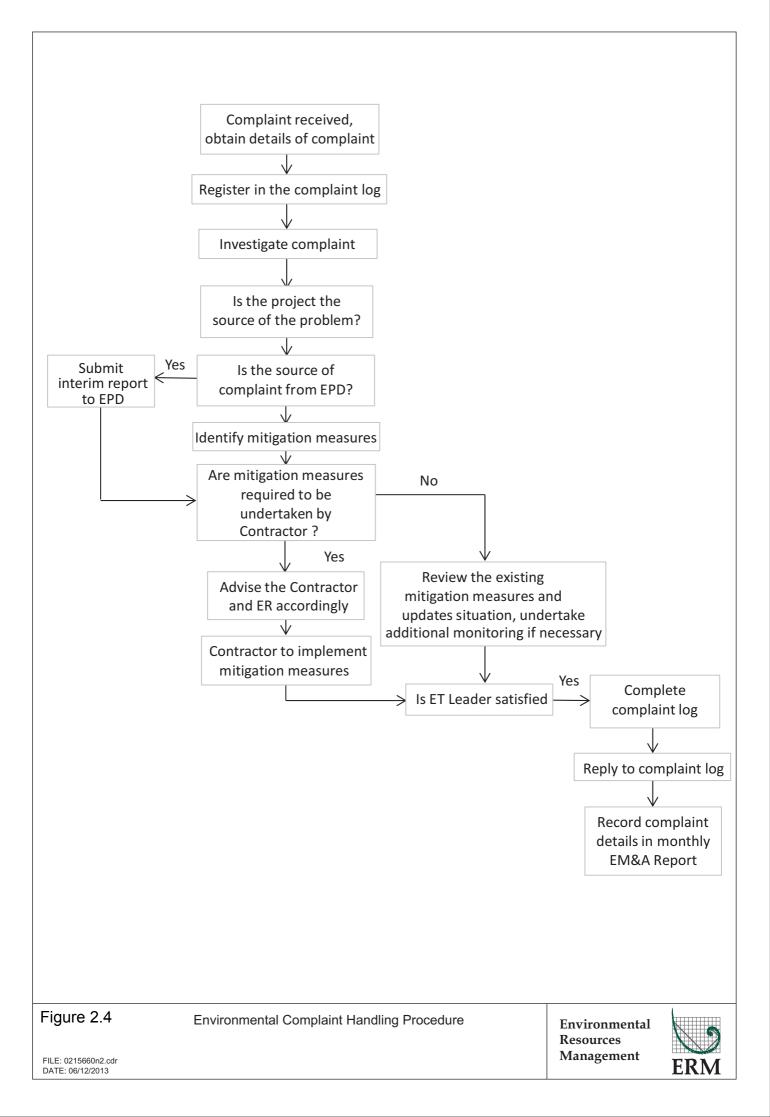
#### 2.9 SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

The Environmental Complaint Handling Procedure is provided in Figure 2.4.

No environmental complaint was received in this reporting period.

No environmental summons was received in this reporting period.

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



#### 3.1 CONSTRUCTION ACTIVITIES FOR THE COMING MONTH

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

#### Table 3.1Construction Works to Be Undertaken in the Coming Month

### Works to be undertaken

Land-based Works

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

#### 3.2 KEY ISSUES FOR THE COMING MONTH

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

#### 3.3 MONITORING SCHEDULE FOR THE COMING MONTH

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

#### 4.1 CONCLUSIONS

4

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

Air quality (including 1-hour TSP and 24-hour TSP) and dolphin monitoring were carried out in this reporting month. Three (3) Action Level exceedances and zero (0) Limit Level exceedance of 1-hour TSP were recorded in the air quality monitoring of this reporting month. Investigation report is provided in Appendix K.

Two groups of 11 Chinese White Dolphins sightings were recorded during the two sets of surveys in July 2017. Both dolphin sightings were made in NWL, while none was sighted in NEL. Both dolphin sightings were made during on-effort search and one of the two dolphin sightings was made on primary lines. These sightings were not associated with any operating fishing vessel.

Environmental site inspection was carried out four (4) times in July 2017. Remedial actions recommended for the deficiencies identified during the site audits were properly implemented by the Contractor.

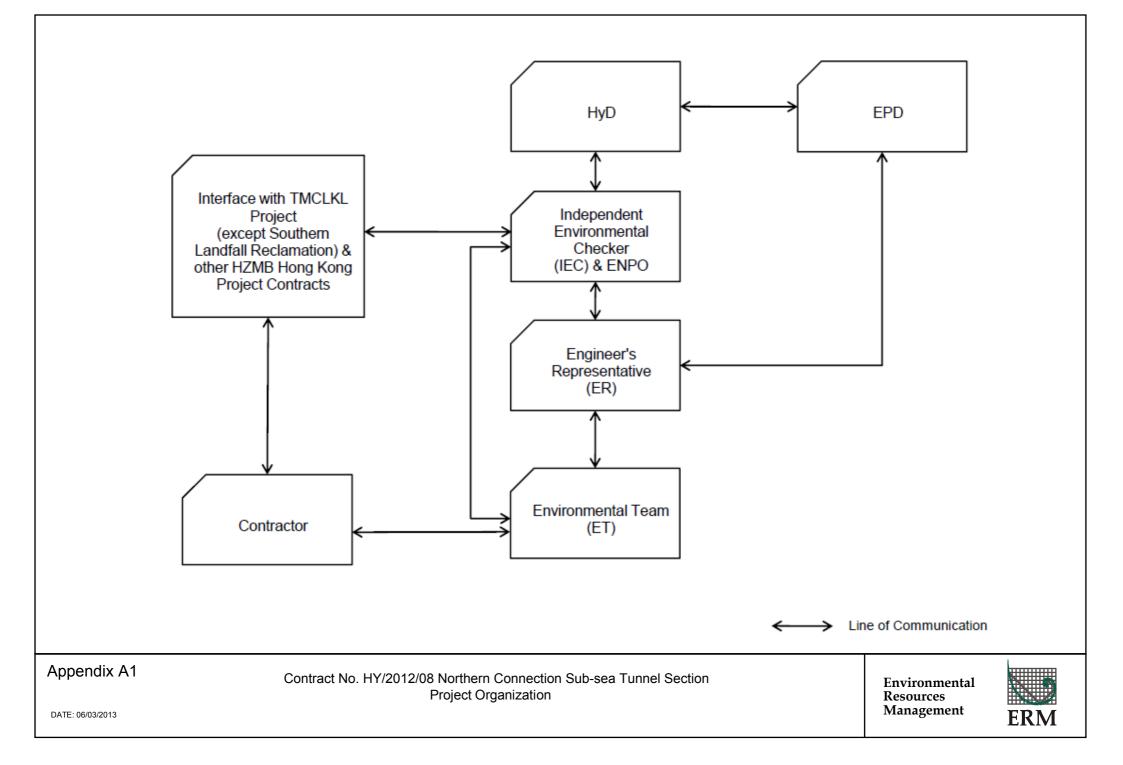
No non-compliance event was recorded during the reporting period.

No environmental complaint was received in this reporting period.

No environmental summons was received in this reporting period.

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

Project Organization for Environmental Works



Appendix B

Construction Programme

Activity Name		2017							
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TMCLK - Northern Connection Sub-Sea Tunnel Section									
Contract Dates		1		1				1	
Commencement and Completion Dates		   							
KD05 - Completion of Section 1A2 - Portion N1 to N4					•	KD05 - Complet	ion of Section 1A2	- Portion N1 to N4	
KD07 - Completion of Section 1C - Portion N5 & N7				1 1 1	•	KD07 - Complet	ion of Section 1C -	Portion N5 & N7	
Site Possession Date		-     						1	
Portions: X1,(N10,11,13 & 14) - Sth Landfall		1		1				1	
Handover Date		1							
Portions: N1~ N4	-	1				Portions: N1~ N			
Portions: N5 & N7 Portion: N6A					•	Portions: N5 & N	17		
General Submissions		1			-	Portion: N6A		1	
PAYMENT MILESTONE		1		1					
Design and Design Checking of the Works		1						1	
MS 2.5 SubmitAIP for seawall modification works at Southern Landfall	ddification works at S	outhern Landfall							
MS 2.6 Approve AIP for seawall modification works at Southern Landfall by the Supervising Officer			AIP for seawall mo	dification works at	Southern Landfall	by the Supervisin	a Officer		
MS 2.7 Submit DDA for seawall modification works at Southern Landfall					DA for se awall mo		-	1	
MS 2.8 Approve DDA for seawall modification works at Southern Landfall by the Supervising Officer							MS 2.8 Approve	DDA for seawall m	odification works
MS 2.44 Approve DDA for South Ventilation Building by the Supervising Officer		1							
MS 2.52 Approve DDA for Facilities Provision for TCSS by the Supervising Officer	l i								
MS 2.60 Approve DDA for Drainage, Sewerage, Waterworks and Utilities at Northern Landfall by the Supervi:									
MS 2.69 Submit draft Operation and Maintenance Manual for all Tunnels and Cross Passgaes		- - - -						1	
MS 2.70 Accept Operation and Maintenance Manual for all Tunnels and Cross Passgaes by the Supervising		1						1	
MS 2.71 Submit draft Operation and Maintenance Manual for all works except Tunnels and Cross Passgaes	1								
MS 2.72 Accept Operation and Maintenance Manual for all works except Tunnels and Cross Passgaes by the	l						MO 0 70 7		
MS 2.73 Complete the whole of the activities under this Cost Centre to the satisfaction of the Supervising Office						•	MS 2.73 Comple	ie ராச whole of the	activities under th
Tunnel Boring Machine (TBM) and Back-up Equipment for TBM Tunnel MS 3.1.6 Removal of TBM for Southbound Tunnel from Site after the completion of TBM Tunnel	uthbound Tunnel fro	m Site after the	ompletion of TPM	Tunnel					
MS 3.1.12 Removal of TBM for Northbound Tunnel from Site after the completion of TBM Tunnel	oval of TBM for North				funnel				
MS 3.1.25 Demolition of Slurry Treatment Plant on completion	glition of Slurry Treat								
MS 3.1.26 Complete the whole of the activities under this Cost Centre Part to the satisfaction of the Supervisin									
TBM Tunnel									
MS 3.3.4 Complete walls of retrieval shaft									
MS 3.3.5 Complete excavation to formation level for retrieval shaft and complete casting of base slab	complete casting of l	base slab							
MS 3.3.6 Complete all necessary works of retrieval shaft to facilitate retrieval of TBM	rieval of TBM			, , ,					
MS 3.3.45 Completion of excavation, support and permanent lining for 60% of the total length (measured on									
MS 3.3.46 Completion of excavation, support and permanent lining for 62.5% of the total length (measured or									
MS 3.3.47 Completion of excavation, support and permanent lining for 65% of the total length (measured on									
MS 3.3.48 Completion of excavation, support and permanent lining for 67.5% of the total length (measured or MS 3.3.40 Completion of excavation, support and permanent lining for 70% of the total length (measured or MS 3.3.40 Completion of excavation, support and permanent lining for 70% of the total length (measured or MS 3.3.40 Completion of excavation, support and permanent lining for 70% of the total length (measured or MS 3.3.40 Completion of excavation, support and permanent lining for 70% of the total length (measured or MS 3.3.40 Completion of excavation, support and permanent lining for 70% of the total length (measured or MS 3.3.40 Completion of excavation, support and permanent lining for 70% of the total length (measured or MS 3.3.40 Completion of excavation, support and permanent lining for 70% of the total length (measured or MS 3.3.40 Completion of excavation, support and permanent lining for 70% of the total length (measured or MS 3.3.40 Completion of excavation, support and permanent lining for 67.5% of the total length (measured or MS 3.40 Completion of excavation, support and permanent lining for 70% of the total length (measured or MS 3.40 Completion of excavation, support and permanent lining for 70% of the total length (measured or MS 3.40 Completion of excavation, support and permanent lining for 70% of the total length (measured or MS 3.40 Completion of excavation, support and permanent lining for 70% of the total length (measured or MS 3.40 Completion of excavation, support and permanent lining for 70% of the total length (measured or MS 3.40 Completion of excavation, support and permanent lining for 70% of the total length (measured or MS 3.40 Completion of excavation, support and permanent lining for 70% of the total length (measured or MS 3.40 Completion of excavation, support and permanent lining for 70% of the total length (measured or MS 3.40 Completion of excavation, support and permanent lining for 70% of the total length (measured or MS 3.40 Completion of excavation, support and									
MS 3.3.49 Completion of excavation, support and permanent lining for 70% of the total length (measured on MS 3.3.50 Completion of excavation, support and permanent lining for 72.5% of the total length (measured or	n plan) of the N l length (measured o	n plan) of the							
MS 3.3.51 Completion of excavation, support and permanent lining for 75% of the total length (measured on )	eingth (measured on								
MS 3.3.52 Completion of excavation, support and permanent lining for 77.5% of the total length (measured or	-!								
MS 3.3.53 Completion of excavation, support and permanent lining for 80% of the total length (measured on )	ength (measured on	. ,							
MS 3.3.54 Completion of excavation, support and permanent lining for 82.5% of the total length (measured or	82.5% of the total le	ngth (measured	on plan) of the						
MS 3.3.55 Completion of excavation, support and permanent lining for 85% of the total length (measured on I	185% of the total leng			r ! !					
MS 3.3.56 Completion of excavation, support and permanent lining for 87.5% of the total length (measured or	87.5% of the total le	ngth (measured	on plan) of the						
MS 3.3.57 Completion of excavation, support and permanent lining for 90% of the total length (measured on I	90% of the total leng	gth (measured or	n plan) of the N						
MS 3.3.58 Completion of excavation, support and permanent lining for 92.5% of the total length (measured or	r 92.5% of the total le	ength (measured	on plan) of the						
MS 3.3.59 Completion of excavation, support and permanent lining for 95% of the total length (measured on	ermanent lining for 9	5% of the total le	ngth (measured o	n plan) of the N					
MS 3.3.60 Completion of excavation, support and permanent lining for 97.5% of the total length (measured or	- '	1		1					
MS 3.3.61 Completion of excavation, support and permanent lining for 100% of the total length (measured or	ermanent lining for 1		ength (measured	on plan) of the					
MS 3.3.111 Completion of excavation, support and permanent lining for 87.5% of the total length (measured on MS 3.3.112 Completion of excavation support and permanent lining for 90% of the total length (measured on	al length (measured o		n nlan) of the						
MS 3.3.112 Completion of excavation, support and permanent lining for 90% of the total length (measured on MS 3.3.113 Completion of excavation, support and permanent lining for 92.5% of the total length (measured c	or 90% of the total ler or 92.5% of the total le		• •						
MS 3.3.114 Completion of excavation, support and permanent lining for 95% of the total length (measured on									
MS 3.3.115 Completion of excavation, support and permanent lining for 97.5% of the total length (measured c	or 97.5% of the total l		• •						
MS 3.3.116 Completion of excavation, support and permanent lining for 100% of the total length (measured o	- ! !		• •						
MS 3.3.118 Complete tunnel internal structures for 50% of total length (measured on plan) of the Northbound	rnal structures for 50	% of total length	(measured on pla	n) of the Northbou	nd TBM Tunnel			1	
MS 3.3.119 Complete tunnel internal structures for 75% of total length (measured on plan) of the Northbound	ļ	•	MS 3.3.119 Cor	nplete tunnel inter	al structures for 75	% of total length (	measured on plan)	of the Northbound	d TBM Tunnel
MS 3.3.120 Complete tunnel internal structures for 100% of total length (measured on plan) of the Northboun						4	MS 3.3.120 Com	plete tunnel intern	al structures for 1
MS 3.3.122 Complete tunnel internal structures for 50% of total length (measured on plan) of the Southbound	rnal structures for 50	% of total length		1	:				
MS 3.3.123 Complete tunnel internal structures for 75% of total length (measured on plan) of the Southbourd		•	MS 3.3.123 Co	nplete tunnel inter	nal structures for 75				
MS 3.3.124 Complete tunnel internal structures for 100% of total length (measured on plan) of the Southbour	-						MS 3.3.124 Com		
MS 3.3.125 Complete drainage and sewerage installations of the Northbound TBM Tunnel MS 3.3.126 Complete drainage and sewerage installations of the Southbound TBM Tunnel							MS 3.3.125 Com		
Cross Passages for TBM Tunnel		1					MS 3.3.126 Com	piete urainaye an	a somerage mstal
MS 3.3.1 Complete 50% of ground treatment for excavation of all Type 1 Cross Passages(Percentage to be ci	1 Cross Passages(F	Percentage to be	certified for 50%					1	
MS 3.3.2 Complete 100% of ground treatment for excavation of all Type 1 Cross Passages(Percentage to be	June 1			MS 3.3.2 Comp	ete 100% of groun	d treatment for exe	avation of all Type	1 Cross Passages	(Percentage to be
MS 3.3.3 Complete 50% of ground treatment for excavation of all Type 2 Cross Passages (Percentage to be o	2 Cross Passages(F	Percentage to be			-		,,		-
MS 3.3.4 Complete 100% of ground treatment for excavation of all Type 2 Cross Passages(Percentage to be		•	MS 3.3.4 Comp	lete 100% of grou	d treatment for exc	avation of all Type	2 Cross Passages	(Percentage to be	certified for 10
MS 3.3.5 Complete 50% of excavation and support for all Type 1 Cross Passages(Percentage to be certified f	for all Type 1 Cross F	Passages(Percer	-		1			1	
MS 3.3.6 Complete 100% of excavation and support for all Type 1 Cross Passages(Percentage to be certified		_			ete 100% of excava	ation and support	or all Type 1 Cross	Passages(Percer	tage to be certifie
MS 3.3.7 Complete 50% of excavation and support for all Type 2 Cross Passages(Percentage to be certified f	for all Type 2 Cross F	Passages(Percer	ntage to be certifie						
MS 3.3.8 Complete 100% of excavation and support for all Type 2 Cross Passages(Percentage to be certified					MS 3.3.8 Compl	ete 100% of excav	ation and support	or all Type 2 Cros	Passages(Perce
MS 3.3.9 Complete 50% of permanent lining and internal structures for all Type 1 Cross Passages(Percentag MS 3.3.10 Complete 100% of permanent lining and internal structures for all Type 1 Cross Passages(Percent	anent lining and inte	rnai structures fo	r all lype 1 Cross	rassages(Percen	1 -	Me 2 2 10 0-	oloto 100% -f	anont lining and	nternal etwet
MS 3.3.10 Complete 100% of permanent lining and internal structures for all Type 1 Cross Passages(Percent MS 3.3.11 Complete 50% of permanent lining and internal structures for all Type 2 Cross Passages(Percenta	plete 50% of perman	ent lining and int	ernal structures fo	r all Type 2 Cross	!		olete 100% of pern	anen ining and i	mernal structures
MS 3.3.12 Complete 30% of permanent lining and internal structures for all Type 2 Cross Passages(Percent MS 3.3.12 Complete 100% of permanent lining and internal structures for all Type 2 Cross Passages(Percent		and inte	a si udui es la			•	olete 100% of pern	nanent lining and	nternal structures
Cut-and-cover Tunnels at Southern Landfalls						2 E OUII			
MS 4.1.1 Complete 10% of total length (measured on plan) of temporary retaining walls for excavation of Cut-	[:								
MS 4.1.2 Complete 20% of total length (measured on plan) of temporary retaining walls for excavation of Cut-	]	1						1	
MS 4.1.3 Complete 30% of total length (measured on plan) of temporary retaining walls for excavation of Cut-								1	
MS 4.1.4 Complete 40% of total length (measured on plan) of temporary retaining walls for excavation of Cut-									
MS 4.1.5 Complete 50% of total length (measured on plan) of temporary retaining walls for excavation of Cut-	ļ							, , ,	
MS 4.1.6 Complete 60% of total length (measured on plan) of temporary retaining walls for excavation of Cut-									
Page 1 of 13 Planned Bar TMCLK - North	thern Connecti	on Sub-Ser	a Tunnal Sa	ction			Date R	evision Che	cked Approved
Planned Bar - Critical						08-		N/PRG/98507 WYu N/PRG/98507 Rev.B SPa N/PRG/98507 Rev.C CLa	SPo WYu WYu
	iled Works Pro	ogramme (F	Rev. F)					V/PRG/98507 Rev. F WYu	
Progress bar			,						
Data Date: 30-Jul-17	ree Months Ro	olling Progra	amme						
	Drograss -	of 20 1.1.4	7						
	Progress as	JU JU-JUI-I	I	I		I			

ivity Name									
	Apr	May	Jun	Jul	2017 Aug	Sep	Oct	Nov	Dec
MS 4.1.7 Complete 70% of total length (measured on plan) of temporary retaining walls for excavation of Cut-		· · · · · ·				P			
MS 4.1.8 Complete 80% of total length (measured on plan) of temporary retaining walls for excavation of Cut-	ŀ	1		1		1			1
MS 4.1.9 Complete 90% of total length (measured on plan) of temporary retaining walls for excavation of Cut-	-E			1					
MS 4.1.10 Complete 100% of total length (measured on plan) of temporary retaining walls for excavation of C	ļ	; ; ;	; 	; 		i 1 1			
MS 4.1.12 Complete 40% of everytation for Cut and export tunnel									
MS 4.1.12 Complete 40% of excavation for Cut-and-cover tunnel	-			1					
MS 4.1.13 Complete 60% of excavation for Cut-and-cover tunnel		1 1 1							
MS 4.1.14 Complete 80% of excavation for Cut-and-cover tunnel	l-cover tunnel								
MS 4.1.15 Complete 100% of excavation for Cut-and-cover tunnel	plete 100% of exc	avation for Cut-and	d-cover tunnel		<mark>-</mark>	+			
MS 4.1.16 Complete permanent tunnel structure for 10% of the total length (measured on plan) of Cut-and-cc	-	1							
MS 4.1.17 Complete permanent tunnel structure for 20% of the total length (measured on plan) of Cut-and-cc		, , ,							
MS 4.1.18 Complete permanent tunnel structure for 30% of the total length (measured on plan) of Cut-and-cc MS 4.1.19 Complete permanent tunnel structure for 40% of the total length (measured on plan) of Cut-and-cc	- 1	1		1					1
MS 4.1.20 Complete permanent tunnel structure for 50% of the total length (measured on plan) of Cut-and-cc	_ 1								
MS 4.1.21 Complete permanent tunnel structure for 60% of the total length (measured on plan) of Cut-and-cc	- <u> </u>	!	hand be a second of the second	han blan) of C					
MS 4.1.22 Complete permanent tunnel structure for 70% of the total length (measured on plan) of Cut-and-cc	- :								
MS 4.1.23 Complete permanent tunnel structure for 80% of the total length (measured on plan) of Cut-and-cc	- 1	1	1	1	1 · · · ·	1			1
MS 4.1.24 Complete permanent tunnel structure for 90% of the total length (measured on plan) of Cut-and-cc		1	1		otal length (measured or	1	-cover Tunnel		
MS 4.1.25 Complete permanent tunnel structure for 100% of the total length (measured on plan) of Cut-and-c			1	1	5 Complete permanent tu	1	1	hath (measured o	¦ m nlan) of (
MS 4.1.26 Complete excavation for 50% of total length (measured on plan) of all Cross Passages				100 4.1.2					
MS 4.1.27 Complete excavation for 100% of total length (measured on plan) of all Cross Passages		1 1 1							1
MS 4.1.28 Complete permanent junction structure at interface between Cut-and-cover Tunnel and TBM Tunn		1 1 1	4	MS 4 1 2	3 Complete permanent ju	¦ Inction structure a	t interface between	Cut-and-cover Tu	hnel and T
MS 4.1.29 Complete pavement for 50% of the total length (measured on plan) of Cut-and-cover Tunnel	  ength (measured	on plan) of Cut-an	1		jennarient ju	1 1			
MS 4.1.30 Complete pavement for 100% of the total length (measured on plan) of Cut-and-cover Tunnel			1	MS 4 1 3	) Complete pavement for	100% of the total	ength (measured	on plan) of Cut-and	d-cover Tu
MS 4.1.31 Complete the whole of the activities under this Cost Centre to the satisfaction of the Supervising Off					Complete the whole of	+			
Cut-and-cover Tunnel at Northern Landfall						1			
MS 4.2.22 Complete tunnel internal structure for 50% of NB Northern Landfall TBM Tunnel		   	 						
MS 4.2.23 Complete tunnel internal structure for 100% of NB Northern Landfall TBM Tunnel	1	1 1 1	1			-			
MS 4.2.25 Complete tunnel internal structure for 100% of SB Northern Landfall TBM Tunnel	Landfall TBM Tun	nel	1			-			1
MS 4.2.29 Complete 100% of permanent lining and internal structures for all Northern Landfall Cross Passag	andfall Cross Pass					<u>+</u>			
MS 4.2.30 Complete Permanent tunnel structure for 25% of Cut and Cover Tunnel	l l l l l l l l l l l l l l l l l l l					1			
MS 4.2.31 Complete Permanent tunnel structure for 50% of Cut and Cover Tunnel	1	   	 						
MS 4.2.32 Complete Permanent tunnel structure for 75% of Cut and Cover Tunnel	over Tunnel	1 1	1						
MS 4.2.33 Complete Permanent tunnel structure for 100% of Cut and Cover Tunnel		   	1			MS 4.2.33 Con	nplete Permanent	tunnel structure for	100% of C
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel	l	! !							
Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall		1 				1			
MS 5.1.2 Complete 40% of excavation for approach ramp structures									
MS 5.1.3 Complete 60% of excavation for approach ramp structures		, , ,							
MS 5.1.4 Complete 80% of excavation for approach ramp structures		1 1 1		-					
MS 5.1.5 Complete 100% of excavation for approach ramp structures						+			
MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ram									
MS 5.1.7 Complete retaining wall foundation for 20% of the total length (measured on plan) of approach ram									
MS 5.1.8 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ram									
MS 5.1.9 Complete retaining wall foundation for 40% of the total length (measured on plan) of approach ram		1 1 1		-					
MS 5.1.10 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach rar						1			
MS 5.1.11 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ran									
MS 5.1.12 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach rar									
MS 5.1.13 Complete retaining wall foundation for 80% of the total length (measured on plan) of approach rar		1 1							
MS 5.1.14 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach rar		1							
MS 5.1.15 Complete retaining wall foundation for 100% of the total length (measured on plan) of approach ra						+			
MS 5.1.16 Complete retaining wall structure for 10% of the total length (measured on plan) of approach ramp			MS 5.1.16 Com	plete retain	ng wal structure for 10%	; of the total length	(measured on pla	n) of approach ram	' np structure
MS 5.1.17 Complete retaining wall structure for 20% of the total length (measured on plan) of approach ramp			1	;	ng wal structure for 20%		i i	1	ĩ
MS 5.1.18 Complete retaining wall structure for 30% of the total length (measured on plan) of approach ramp		1 1 1	•	MS 5.1.1	3 Complete retaining wal	I structure for 30%	of the total length	(measured on plar	) of approa
MS 5.1.19 Complete retaining wall structure for 40% of the total length (measured on plan) of approach ramp		1		MS 5.1.1	Complete retaining wal	structure for 40%	of the total length	(measured on plar	) of approa
MS 5.1.20 Complete retaining wall structure for 50% of the total length (measured on plan) of approach ramp					MS 5.1.20 Com	plete retaining wa	all structure for 50%	of the total length	measured
MS 5.1.21 Complete retaining wall structure for 60% of the total length (measured on plan) of approach ramp		1				MS 5.1.21 Con	nplete retaining wa	ll structure for 60%	of the tota
MS 5.1.22 Complete retaining wall structure for 70% of the total length (measured on plan) of approach ramp		1 1 1				MS 5.1.22 Con	nplete retaining wa	ll structure for 70%	of the tota
MS 5.1.23 Complete retaining wall structure for 80% of the total length (measured on plan) of approach ramp		1				•	MS 5.1.23 Com	plete retaining wal	structure
MS 5.1.24 Complete retaining wall structure for 90% of the total length (measured on plan) of approach ramp						•	MS 5.1.24 Com	plete retaining wal	structure
Approach Ramp Structures to Cut-and-cover Tunnel at Northern Landfall	[:	     				1 1			
MS 5.2.1 Complete 20% of excavation for approach ramp structures						•	MS 5.2.1 Comp	lete 20% of excave	tion for ap
MS 5.2.2 Complete 40% of excavation for approach ramp structures		, , , ,				•	MS 5.2.2 Comp	lete 40% of excave	ation for ap
MS 5.2.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ram		   	 		🔶 MS 5.2.6 Comp	lete retaining wall	foundation for 109	of the total length	(measure
MS 5.2.7 Complete retaining wall foundation for 20% of the total length (measured on plan) of approach ram	1	   			MS 5.2.7 Comp	lete retaining wall	foundation for 209	of the total length	(measure
MS 5.2.8 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ram					MS 5.2.8 Comp	lete retaining wall	foundation for 30%	of the total length	(measure
MS 5.2.9 Complete retaining wall foundation for 40% of the total length (measured on plan) of approach ram		   	 		🔶 MS 5.2.9 Comp	lete retaining wall	foundation for 40%	of the total length	(measure
MS 5.2.10 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach rar		1 1 1	1		🔶 MS 5.2.10 Com	plete retaining wa	all foundation for 50	% of the total leng	th (measur
MS 5.2.11 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ran		1			1	., .	Il foundation for 60		1
MS 5.2.12 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach rar	Ę	¦ {			MS 5.2.12 Com	plete retaining wa	all foundation for 70	)% of the total leng	th (measur
MS 5.2.13 Complete retaining wall foundation for 80% of the total length (measured on plan) of approach rar		   				-	all foundation for 80	-	1
MS 5.2.14 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach rar		1 1	   	1	•	MS 5.2.14 Con	nplete retaining wa	Il foundation for 90	% of the to
MS 5.2.15 Complete retaining wall foundation for 100% of the total length (measured on plan) of approach ra	li i	   	1		•	MS 5.2.15 Con	nplete retaining wa	Il¦foundation for 10	0% of the
At grade Roads at Southern Landfall		1							1
MS 6.1.1 Complete sub-base works of 20% of total area of at grade roads	Ę	; {		; 		MS 6.1.1 Com	plete sub-base wor	ks of 20% of total a	rea of at g
MS 6.1.5 Complete pavement of 20% of total area of at grade roads	-	1 1 1	1			i	MS 6.1.5 Comp		
MS 6.1.13 Complete drainage installation of 20% length of total length (measured on plan) of drainage pipes	ł	1 1 1		MS 6.1.1	3 Complete drainage ins	1		1	ĩ.
MS 6.1.14 Complete drainage installation of 50% length of total length (measured on plan) of drainage pipes	-					1	MS 6.1.14 Com		1
MS 6.1.17 Complete watermains installation of 20% length of total length (measured on plan) of watermains		, 1 1		- 		MS 6.1.17 Con	nplete watermains	installation of 20%	length of to
At grade Roads at Northern Landfall		¦							
MS 6.2.1 Complete sub-base works of 20% of total area of at grade roads	ł			MS 6.2.1	Complete sub-base worl		-		
MS 6.2.5 Complete pavement of 20% of total area of at grade roads			1 1 1		i i	i i	20% of total area o	t at grade roads	1
MS 6.2.13 Complete drainage installation of 20% length of total length (measured on plan) of drainage pipes	MS 6.2.13 Com	plete drainage ins	tallation of 20% lei	ngth of total	ength (measured on pla	1	1		
MS 6.2.14 Complete drainage installation of 50% length of total length (measured on plan) of drainage pipes		   					nplete drainage ins	stallation of 50% le	ngth of tota
MS 6.2.17 Complete severage installation of 20% length of total length (measured on plan) of severage pipe	MS 6.2.17 Com	plete sewerage in	stallation of 20% le	ength of tota	length (measured on pla				; 
MS 6.2.18 Complete sewerage installation of 50% length of total length (measured on plan) of sewerage pipe		1 1 1			i i	1	nplete sewerage in		-
MS 6.2.21 Complete watermains installation of 20% length of total length (measured on plan) of watermains	ł		MS 6.2.21 Com	plete wateri	nains installation of 20%	1		1	i i
MS 6.2.23 Complete watermains installation of 50% length of total length (measured on plan) of watermains	1	   		1		1	MS 6.2.23 Com	plete watermains i	nstallation
			<b>-</b>				Date	Revision Ch	ecked Ap
2 of 13 Planned Bar TMCLK - Nor	thern Connec	tion Sub-Se	a Tunnel Se	ection			2-Feb-14 TMCLK/DBJG	EN/PRG/98507 WYu EN/PRG/98507 Rev.B SPa	edked Ap SPo WYu
Planned Bar - Critical	ilad Marka D	rogramma (				2	8-Aug-14 TMCLK/DBJG	EN/PRG/98507 Rev. C CLa EN/PRG/98507 Rev. F WYu	WYu
♦ ♦ Planned Milestone Deta	iled Works P	rogramme (	NEV. F)			ſ			
Date: 30-Jul-17 Progress bar Th	ree Months F	Rollina Proa	amme	I					

Progress as of 30-Jul-17

Activity Name									
	Apr	May	Jun	Jul	2017 Aug	Sep	Oct	Nov	Dec
South Ventilation Buildings		ividy			l	<u>00p</u> 			
MS 7.1.1 Complete 100% of cofferdam for excavation			1				1 1 1		1 1 1
MS 7.1.2 Complete 100% of excavation to the formation level			     	   		+     		   	     
MS 7.1.3 Complete 100% of foundation for the ventilation building			1			1 1 1			1 1
MS 7.1.4 Complete concreting works of 25% area of the total construction floor area for the ventilation build	in he ventilation buil	lding							
MS 7.1.5 Complete concreting works of 50% area of the total construction floor area for the ventilation build		ction floor area for t	i -				1 1 1		1 1
MS 7.1.6 Complete concreting works of 75% area of the total construction floor area for the ventilation build		orks of 75% area of				*	, , , ,		; ; ;
MS 7.1.7 Complete concreting works of 100% area of the total construction floor area for the ventilation build MS 7.1.9 Complete 100% of drainage, watermain and utilities connection works for the ventilation building	MS 7.1.7 Com	plete concreting wo	rks of 100% area (	of the total constru			-		)    -
North Ventilation Buildings							liete 100% of drain	nage, watermain an	ia uunues connecu
MS 7.2.4 Complete concreting works of 25% area of the total construction floor area for the ventilation build	in l								, 1 1
MS 7.2.5 Complete concreting works of 50% area of the total construction floor area for the ventilation build		dina	1 1 1						1 1 1
MS 7.2.6 Complete concreting works of 75% area of the total construction floor area for the ventilation build		ction floor area for t	he ventilation build	ding		, +	 		     
MS 7.2.7 Complete concreting works of 100% area of the total construction floor area for the ventilation buil	<u> </u>	plete concreting wo	1		dion floor area for t	he ventilation build	ding		 
MS 7.2.9 Complete 100% of drainage, watermain and utilities connection works for the ventilation building						MS 7.2.9 Comp	lete 100% of drair	age, watermain an	d utilities connect
Facilities Provision for TCSS for At Grade Roads at Southern Landfall							1		 
MS 8.1.5 Complete 25% of support foundation, ductings, drawpits for at grade roads					•	MS 8.1.5 Comp	lete 25% of suppo	rt foundation, ducti	hgs, drawpits for a
Facilities Provision for TCSS for At Grade Roads at Northern Landfall				   					     
MS 8.2.5 Complete 25% of support foundation, ductings, drawpits for at grade roads				MS 8.2.5 Comp	ete 25% of suppor	foundation, ducti	ngs, drawpits for a	grade roads	
MS 8.2.6 Complete 50% of support foundation, ductings, drawpits for at grade roads							MS 8.2.6 Comp	lete 50% of suppor	t foundation, duct
Facilities Provision for E&M Works for TBM Tunnel, Cut & Cover Tunnels and (			1						   
MS 9.1.1 Complete 25% of bonding terminal, opening and accessories, etc.						, , ,			, , ,
MS 9.1.2 Complete 25% of plinth, hoisting facilities and accessories, etc. MS 9.1.3 Complete 50% of bonding terminal, opening and accessories, etc.							1		 
MS 9.1.3 Complete 50% of blinding terminar, opening and accessories, etc.		ning and accessorie							
MS 9.1.5 Complete 50% of bonding terminal, opening and accessories, etc.		s and accessories, e MS 9.1.5 Comple		d terminal openir	and amessories	etc.	1		
MS 9.1.6 Complete 75% of plinth, hoisting facilities and accessories, etc.	i	MS 9.1.6 Comple	i.	ī.		i.			
MS 9.1.7 Complete 95% of bonding terminal, opening and accessories, etc.	;	l		1 1	*	*	lete 95% of bondi	ng terminal, openin	g and accessorie
MS 9.1.8 Complete 95% of plinth, hoisting facilities and accessories, etc.							1	hoisting facilities a	-
Facilities Provision for E&M Works for South Ventilation Building									
MS 9.4.1 Complete 25% of bonding terminal, main earth mat, clean earth mat, earth pit, lightning pit, conce	al		MS 9.4.1 Comp	ete 25% of bond	ng terminal, main e	arth mat, clean ea	rth mat, earth pit, li	ghtning pit, concea	conduit, o
MS 9.4.2 Complete 25% of plinth, hoisting facilities, louver, wire mesh and accessories, etc.		•	MS 9.4.2 Comp	lete 25% of plinth	hoisting facilities, lo	uver, wire mesh a	nd accessories, e	¢.	,   
MS 9.4.3 Complete 25% of floor drain, water tank and accessories, etc.			MS 9.4.3 Comp	lete 25% of floor	rain, water tank an	d accessories, etc.			
MS 9.4.4 Complete 50% of bonding terminal, main earth mat, clean earth mat, earth pit, lightning pit, conce	1				· ·	1		earth mat, clean ear	
MS 9.4.5 Complete 50% of plinth, hoisting facilities, louver, wire mesh and accessories, etc.	_						-	ouver, wire mesh a	
MS 9.4.6 Complete 50% of floor drain, water tank and accessories, etc.	_					1		d accessories, etc.	
MS 9.4.7 Complete 75% of bonding terminal, main earth mat, clean earth mat, earth pit, lightning pit, concerning and concerning at a second se	a							ng terminal, main e	
MS 9.4.8 Complete 75% of plinth, hoisting facilities, louver, wire mesh and accessories, etc.	_				1	1	1	hoisting facilities, lo	1
MS 9.4.9 Complete 75% of floor drain, water tank and accessories, etc.								Irain, water tank an	
MS 9.4.10 Complete 95% of bonding terminal, main earth mat, clean earth mat, earth pit, lightning pit, conc MS 9.4.11 Complete 95% of plinth, hoisting facilities, louver, wire mesh and accessories, etc.								plete 95% of bondi	
MS 9.4.12 Complete 95% of floor drain, water tank and accessories, etc.	-							plete 95% of plinth, plete 95% of floor d	i i i
Facilities Provision for E&M Works for North Ventilation Building	<b>.</b>			 			VIS 9.4.12 COIII		lan, water tank a
MS 9.5.1 Complete 25% of bonding terminal, main earth mat, clean earth mat, earth pit, lightning pit, conce		MS 9.5.1 Comple	te 25% of bondin	ˈ d terminal main e	arth mat clean eart	¦ Ín mat earth pit lio	htning pit concea	conduit o	1 1 1
MS 9.5.2 Complete 25% of plinth, hoisting facilities, louver, wire mesh and accessories, etc.			1		uver, wire mesh an				1 1 1
MS 9.5.3 Complete 25% of floor drain, water tank and accessories, etc.					accessories, etc.	, , ,			
MS 9.5.4 Complete 50% of bonding terminal, main earth mat, clean earth mat, earth pit, lightning pit, conce	al				ete 50% of bondin	; g terminal, main e	arth mat, clean ea	rth mat, earth pit, lic	; thtning pit, concea
MS 9.5.5 Complete 50% of plinth, hoisting facilities, louver, wire mesh and accessories, etc.					ete 50% of plinth, l	*			
MS 9.5.6 Complete 50% of floor drain, water tank and accessories, etc.				MS 9.5.6 Comp	ete 50% of floor dr	ain, water tank and	d accessories, etc.		, , ,
MS 9.5.7 Complete 75% of bonding terminal, main earth mat, clean earth mat, earth pit, lightning pit, conce	al -				MS 9.5.7 Compl	ete 75% of bondir	ng terminal, main e	earth mat, clean ear	rth mat, earth pit, li
MS 9.5.8 Complete 75% of plinth, hoisting facilities, louver, wire mesh and accessories, etc.	_				MS 9.5.8 Compl	ete 75% of plinth,	hoisting facilities, l	quver, wire mesh a	nd accessories, e
MS 9.5.9 Complete 75% of floor drain, water tank and accessories, etc.					MS 9.5.9 Compl	ete 75% of floor d	tain, water tank an	d accessories, etc.	   
MS 9.5.10 Complete 95% of bonding terminal, main earth mat, clean earth mat, earth pit, lightning pit, conc	a -							plete 95% of bondi	
MS 9.5.11 Complete 95% of plinth, hoisting facilities, louver, wire mesh and accessories, etc.	_							plete 95% of plinth,	-
MS 9.5.12 Complete 95% of floor drain, water tank and accessories, etc.							MS 9.5.12 Com	plete 95% of floor o	prain, water tank a '
Construction									1 1 1
Northern Landfall									1 1 1
Box Culvert Extension Construction									, 1 1
Ch000-010 Culvert Outfall									1
Removal of temporary bulk head	-		- - 						i i i
CH100-150 Land Section									
ELS & Structure	<b>-</b>					;	;	·	, 
Pile A41/A39 CJ to Pile A39/A37 CJ (Bay 7)									
Box Culvert Structure									,     
Pile cap construction									
Base slab construction including kicker								,	, , ,
Removal of strut S1						1			
Sliding formworks 1 st assembly	_								, , , ,
Walls & top slab construction	_								1 1
Removal of strut S2 & Backfilling up to required level	<u> </u>								
Pile A39/A37 CJ to Pile A37/A35 CJ (Bay 8) Box Culvert Structure	<b>_</b>				ļ	; 	; ;		1 1
Pile cap construction									
Base slab construction including kicker							i 1 1		, 1 1
Removal of strut S1	-			1			1		1
Walls & top slab construction	_				J				1 1 1
Removal of strut S2 & Backfilling up to required level								· · · · · · · · · · · · · · · · · · ·	, , ,
Pile A37/A35 CJ to Pile A35/A33 CJ (Bay 9)					1				
Box Culvert Structure				1				1	1 1 1
Pile cap construction									
Base slab construction including kicker						, , , ,		,	, , , ,
Removal of strut S1	_			1					1
Walls & top slab construction					•				
Removal of strut S2 & Backfilling up to required level									1 1 1
Pile A35/A33 CJ to Pile A33/P117 CJ (Bay 10)			1	1	1	1	1		1
Box Culvert Structure	1				1				1
Page 3 of 13 Planned Bar TMCLK - No	orthern Conne	ction Sub-Se	a Tunnel Se	ection				EN/PRG/98507 WYu	ecked Approved SPo
Planned Bar - Critical						08	8-Apr-14 TMCLK/DBJG 8-Aug-14 TMCLK/DBJG	EN/PRG/98507 Rev. B SPa EN/PRG/98507 Rev. C CLa	WYu WYu
	tailed Works F	Programme (	Rev. F)					EN/PRG/98507 Rev. F WYu	
Progress bar		D - II'							
♦ ♦ Progress Milestone	Three Months	Rolling Progr	amme						
	Drograa	as of 30-Jul-1	7						
	110918558	1-10-50 ID 50-50	1	I		I			

Activity Name	2017
	Apr May Jun Jul Aug Sep Oct Nov Dec
Pile cap construction	
Base slab construction including kicker Removal of strut S1	
Walls & top slab construction	
Removal of strut S2 & Backfilling up to required level	
Ch150-250 Marine Section	
ELS & Structure Pile A33/P117 CJ to Pile P113/P109 CJ (Bay 11)	
Box Culvert Structure	
Base slab construction including kicker	
Removal of strut S1	
Walls & top slab construction Removal of strut S2 & Backfilling up to required level	
Pile P113/P109 CJ to Pile P105/P101 CJ (Bay 12)	
Box Culvert Structure	
Walls & top slab construction	
Removal of strut S2 & Backfilling up to required level	
Pile P105/P101 CJ to Pile P97/P93 CJ (Bay 13) Box Culvert Structure	
Base slab construction including kicker	
Removal of strut S1	
Walls & top slab construction	
Removal of strut S2 & Backfilling up to required level Pile P97/P93 CJ to Pile P89/P85 CJ (Bay 14)	
Box Culvert Structure	
Walls & top slab construction	
Removal of strut S2 & Backfilling up to required level	
Pile P89/P85 CJ to Pile P81/P77 CJ (Bay 15)	
Base slab construction including kicker	
Removal of strut S1	
Walls & top slab construction	
Removal of strut S2 & Backfilling up to required level	
Pile P81/P77 CJ to Pile P73/P69 CJ (Bay 16) Box Culvert Structure	
Box Curvent Structure Removal of strut S2 & Backfilling up to required level	┛╎
Ch250-380 Marine Section	
ELS & Structure	
Public Fill - Phase 2 Reclamation - along combi wall system	clamation - along combi wall system
Pile P73/P69 CJ to Pile P65/P61 CJ (Bay17) ELS	
Excavation to 0.5m below strut S1	n below strut S1
Installation of strut S1	strut S1
Excavation to FEL	n to FEL
Box Culvert Structure	
Base slab construction including kicker Removal of strut S1	ase slab construction including kicker Removal of strut \$1
System Formwork Assembly & Setup	System Formwork Assembly & Setup
Walls & top slab construction	Walls & top slab construction
Removal of strut S2 & Backfilling up to required level	Removal of strut S2 & Backfilling up to required level
Pile P65/P61 CJ to Pile P57/P53 CJ (Bay 18)	
ELS Excavation to 0.5m below strut S1	0.5m below strut \$1
Installation of strut S1	n of strut S1
Excavation to FEL	ation to FEL
Box Culvert Structure	
Base slab construction including kicker Removal of strut S1	Base slab construction including kicker
Walls & top slab construction	Walls & top slab construction
Removal of strut S2 & Backfilling up to required level	Hemoval of strut S2 & Backfilling up to required level
Pile P57/P53 CJ to Pile P49/P45 CJ (Bay 19)	
ELS Excavation to 0.5m below strut S1	
Installation of strut S1	bn to 0.5m below strut S1
Excavation to FEL	xcavation to FEL
Box Culvert Structure	
Base slab construction including kicker	Base slab construction including kicker
Removal of strut S1 Walls & top slab construction	Removal of strut S1
Removal of strut S2 & Backfilling up to required level	Walls & top slab construction Hemoval of strut S2 & Backfilling up to required level
Pile P49/P45 CJ to Pile P41/P37 CJ (Bay 20)	
ELS	
Excavation to 0.5m below strut S1	vation to 0.5m below strut S1
Installation of strut S1 Excavation to FEL	estallation of strut S1
Box Culvert Structure	
Base slab construction including kicker	Base slab construction including kicker
Removal of strut S1	Removal of strut S1
Walls & top slab construction Removal of strut S2 & Backfilling up to required level	Walls & top slab construction Removal of strut S2 & Backfilling up to required level
Pile P41/P37 CJ to Pile P33/P29 CJ (Bay 21)	
Excavation to 0.5m below strut S1	Excavation to 0.5m/below strut S1
Installation of strut S1	Installation of strut S1
Excavation to FEL Box Culvert Structure	Excavation to FEL
Base slab construction including kicker	Base slab construction including kicker
	rthern Connection Sub-Sea Tunnel Section
Project ID: TMCLK DWPF 17W30	ailed Works Programme (Rev. F)
Planned Milestone	
Data Date: 30-Jul-17	hree Months Rolling Programme
	Progress as of 30-Jul-17

	Apr	May Jun	Jul	2017 Aug	Sep	Oct	Nov D
Removal of strut S1		Removal of strut S1	Jui	L Aug	Sep		
Walls & top slab construction		walls & top sla					
Removal of strut S2 & Backfilling up to required level		Remov	val of strut S2 & Ba	ckfilling up to requi	red level	   	· · · · · · · · · · · · · · · · · · ·
Pile P33/P29 CJ to Pile P25/P21 CJ (Bay 22) ELS							
Excavation to 0.5m below strut S1	Excavation to	0.5m below strut S1					
Installation of strut S1		n of strut S1					
Excavation to FEL	Exc	avation to FEL		! !	: : : :	   	· · · · · · · · · · · · · · · · · · ·
Box Culvert Structure Base slab construction including kicker		Base slab construction includin	kickor				
Removal of strut S1		Removal of strut S1	ig kicker				
Walls & top slab construction			p slab construction				
Removal of strut S2 & Backfilling up to required level			Removal o	Í strut S2 & Backfilli	g up to required	level	
Pile P25/P21 CJ to Pile P17/P13 CJ (Bay 23)							
ELS						1	
Excavation to 0.5m below strut S1 Removal of Ch365 Sheet Pile Wall Anchor Wall (Stage 1)		ion to 0.5m below strut S1	bor Wall (Stage 1				
Removal of Ch365 Sheet Pile Wall Anchor Wall (Stage 2)		Bemoval of Ch365 Sheet Pile Wall And		¦ 2)			
Installation of strut S1		stallation of strut S1	L	· · · · · · · · · · · · · · · · · · ·			
Excavation to FEL		Excavation to FEL					
Removal of Ch365 Sheet Pile Wall Anchor Wall (Stage 3)		Removal of Ch365 Sheet Pile	Wall Anchor Wall	(Stage 3)			
Box Culvert Structure							
Base slab construction including kicker Removal of strut S1		Base slab construction i		i 	i 	i 	·
Walls & top slab construction		Removal of strut S1	Walls & top slal	construction			
Removal of strut S2 & Backfilling up to required level					\$2 & Backfilling ur	p to required level	
Pile P17/P13 CJ to Pile P09/P05 CJ (Bay 24)			$\nabla$				
ELS			\ 				·
Excavation to 0.5m below strut S1		Excavation to 0.5m below strut S	51				
Installation of strut S1 Excavation to FEL		Installation of strut S1					
Box Culvert Structure		Excavation to FEL					
Base slab construction including kicker		Base slat	construction inclu	ding kicker			
Removal of strut S1		· · · · · · · · · · · · · · · · · · ·	moval of strut S1	1 1 1			· · · · · · · · · · · · · · · · · · ·
Walls & top slab construction			Wa	ls & top slab constr			
Removal of strut S2 & Backfilling up to required level				Remo	γal of strut S2 & Β ¦	ackfilling up to requ	ired level
Pile P09/P05 CJ to End Wall CJ (Bay 25) ELS							
Excavation to 0.5m below strut S1		Excavation to 0.5m below strut	tiS1	:	: 		· · · · · · · · · · · · · · · · · · ·
Installation of strut S1		Installation of str					
Excavation to FEL		Excavatio	on to FEL				
Box Culvert Structure							
Base slab construction including kicker		Ba		n including kicker	: : :		
Removal of strut S1 Walls & top slab construction			Removal of	strut S1 Walls & top sla			
Removal of strut S2 & Backfilling up to required level				waiis & top sia		t S2 & Backfilling u	n to required level
Ch380-399 Connection Section						toz a Daokining a	
Connection to Existing Culvert							
Removal of CH380 Sheet Pile Wall			     	Remo	val of CH380 She	et Pile Wall	
Backfilling of temporary Drainage diversion channel for Handover					-		diversion channel for Hand
CKS Land Access - diversion to Postion N12 Vertical Seawall						1	stion N12 Vertical Seawall
Removal of CKS Access S teel Bridge Advance preparation works for Main Culvert Structure Connection					Ke	moval of CKS Acce	ance preparation works for
Miscellaneous works							
Connection to Existing EOB							
ELS for Connection to Existing EOB							ELS for Conne
Connection to Existing EOA							
ELS for Connection to Existing EOA EOA Precast installation & Connection					; ;	ELS	for Connection to Existing
Inspection Manhole (IM)							EOAPrec
Inspection Manhole IM-01 to IM-04 & backfilling to +6.0mPD							
Inspection Manhole IM-05 to IM-08 & backfilling to +6.0mPD							
Inspection Manhole IM-13 to IM-16 & backfilling to +6.0mPD				ļ	Ins	pection Manhole IN	1-13 to IM-16 & backfilling t
Stop Log Opening (SLO)					1	1	
SLO-01 to SLO-05 & backfilling to +6.0mPD							
Balance Hole (BH) BH-01 to BH-03 & backfilling to +6.0mPD						 	
BH-10 to BH-12 & backfilling to +6.0mPD						BH-10 to	b BH-12 & backfilling to +6.
Desilting Opening (DO)		- <u>-</u>	· •	1 1 1 1	· · · · · · · · · · · · · · · · · · ·		
DO-05 to DO-08 & backfilling to +6.0mPD							DO-05 to DO-08 & ba
North Ventilation Shaft							
Construction							
North Ventilation Shaft Structure NVS - ML03 Tunnel Structure			 	1 1 1 1		 	·
NVS - ML02 Tunnel Structure							
CLP Temporary Substation				1 1 1		1 1 1	
CLP Temporary Substation Construction				· •			Prepare for CLP consent fo
CLP Temporary Substation Construction CLP Substation - Prepare for CLP consent for de-energization							CLP Substation - De-energ
CLP Temporary Substation Construction CLP Substation - Prepare for CLP consent for de-energization CLP Substation - De-energization			1		i	i l	
CLP Temporary Substation Construction CLP Substation - Prepare for CLP consent for de-energization CLP Substation - De-energization TMCLK VO-008 - Construction of Viaduct Foundations at Portion N6A							
CLP Temporary Substation Construction CLP Substation - Prepare for CLP consent for de-energization CLP Substation - De-energization					1 1 1 1 1		
CLP Temporary Substation Construction CLP Substation - Prepare for CLP consent for de-energization CLP Substation - De-energization TMCLK VO-008 - Construction of Viaduct Foundations at Portion N6A Viaduct Pile Cap							
CLP Temporary Substation         Construction         CLP Substation - Prepare for CLP consent for de-energization         CLP Substation - De-energization         TMCLK VO-008 - Construction of Viaduct Foundations at Portion N6A         Viaduct Pile Cap         Construction         Pier G1b         Pile Cap G1b - ELS Foundation							
CLP Temporary Substation         Construction         CLP Substation - Prepare for CLP consent for de-energization         CLP Substation - De-energization         TMCLK VO-008 - Construction of Viaduct Foundations at Portion N6A         Viaduct Pile Cap         Construction         Pier G1b         Pile Cap G1b - ELS Foundation         Pile Cap G1b - Removal of Existing ground slab	slab						
CLP Temporary Substation         Construction         CLP Substation - Prepare for CLP consent for de-energization         CLP Substation - De-energization         TMCLK VO-008 - Construction of Viaduct Foundations at Portion N6A         Viaduct Pile Cap         Construction         Pier G1b         Pile Cap G1b - ELS Foundation         Pile Cap G1b - Excavation & ELS Installation	ELS Installation						
CLP Temporary Substation         Construction         CLP Substation - Prepare for CLP consent for de-energization         CLP Substation - De-energization         TMCLK VO-008 - Construction of Viaduct Foundations at Portion N6A         Viaduct Pile Cap         Construction         Pier G1b         Pile Cap G1b - ELS Foundation         Pile Cap G1b - Removal of Existing ground slab							
CLP Temporary Substation         Construction         CLP Substation - Prepare for CLP consent for de-energization         CLP Substation - De-energization         TMCLK VO-008 - Construction of Viaduct Foundations at Portion N6A         Viaduct Pile Cap         Construction         Pier G1b         Pile Cap G1b - ELS Foundation         Pile Cap G1b - Excavation & ELS Installation         Pile Cap G1b - Blinding Concrete	ELS Installation	ction Sub-Sea Tunnel Se	ection				Revision Cheded NVPRG08507 WYu SPo
CLP Temporary Substation         Construction         CLP Substation - Prepare for CLP consent for de-energization         CLP Substation - De-energization         TMCLK VO-008 - Construction of Viaduct Foundations at Portion N6A         Viaduct Pile Cap         Construction         Pier G1b         Pile Cap G1b - ELS Foundation         Pile Cap G1b - Excavation & ELS Installation         Pile Cap G1b - Blinding Concrete         5 of 13	ELS Installation Acrete		ection		08	8-Apr-14 TMCLK/DBJGE 8-Aug-14 TMCLK/DBJGE	N/PRG/98507         WYu         SPo           SN/PRG/98507 Rev. B         SPa         WY           SN/PRG/98507 Rev. C         CLa         WY
CLP Temporary Substation         Construction         CLP Substation - Prepare for CLP consent for de-energization         CLP Substation - De-energization         TMCLK VO-008 - Construction of Viaduct Foundations at Portion N6A         Viaduct Pile Cap         Construction         Pier G1b         Pile Cap G1b - ELS Foundation         Pile Cap G1b - Removal of Existing ground slab         Pile Cap G1b - Binding Concrete         5 of 13	ELS Installation Acrete	ction Sub-Sea Tunnel Se Programme (Rev. F)	ection		08	8-Apr-14 TMCLK/DBJGE 8-Aug-14 TMCLK/DBJGE	N/PRG/98507 WYu SPo N/PRG/98507 Rev. B SPa WY
CLP Temporary Substation Construction CLP Substation - Prepare for CLP consent for de-energization CLP Substation - De-energization TMCLK VO-008 - Construction of Viaduct Foundations at Portion N6A Viaduct Pile Cap Construction Pile Cap G1b - ELS Foundation Pile Cap G1b - Bemoval of Existing ground slab Pile Cap G1b - Binding Concrete 5 of 13 Planned Bar Planned Bar Planned Bar - Critical TMCLK	- Northern Connec Detailed Works F		ection		08	8-Apr-14 TMCLK/DBJGE 8-Aug-14 TMCLK/DBJGE	N/PRG/98507         WYu         SPo           SN/PRG/98507 Rev. B         SPa         WY           SN/PRG/98507 Rev. C         CLa         WY

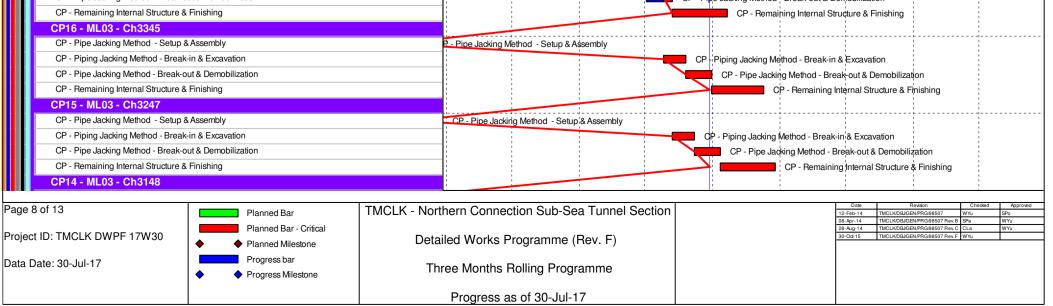
Act	ivity Name			20	17			
		Apr	May Jun		ug Sep	Oct	Nov	Dec
	Pile Cap G1b - Rebar & Concreting	Rebar & Concreting						
	Pile Cap G1b - Backfilling & Temp Reinstatement Pier H1b	1b - Backfilling & Ten	mp Reinstatement					
	Pier H1b Pile Cap H1b - ELS Foundation	Pile Can H1h	- ELS Foundation					
	Pile Cap H1b - Removal of Existing ground slab		H1b - Removal of Existing ground s	ab				
	Pile Cap H1b - Excavation & ELS Installation		Pile Cap H1b - Excavation & EL	S Installation				
	Pile Cap H1b - Blinding Concrete		Pile Cap H1b - Blinding Corlo	1				
	Pile Cap H1b - Rebar & Concreting		Pile Cap H1b - F	1-				
	Pile Cap H1b - Backfilling & Temp Reinstatement Pier H1c		Pile Cap H1	Ib - Backfilling & Temp Rei	nstatement			
	Pile Cap H1c - Preparation for ELS							
	Pile Cap H1c - Removal of Existing ground slab							
	Pile Cap H1c - Excavation & ELS Installation							
	Pile Cap H1c - Blinding Concrete							
	Pile Cap H1c - Rebar & Concreting Pile Cap H1c - Backfilling & Temp Reinstatement							
	North Approach TBM Tunnelling & Cross Passage			· · · · · · · · · · · · · · · · · · ·		·		
	Construction							
	North Approach Tunnel Internal Structure - NB							
	NB - North TBM Tunnel - OHVD Slab installation							
	NB - North TBM Tunnel - Fire proofing and Provision to E&MS and TCSS Contract for KD1	r KD1						
	North Approach Tunnel Internal Structure - SB SB - North TBM Tunnel - OHVD Slab installation							
		MS and TCSS Cont	tract for KD1					
	North Ventilation Building							
	Design Submission				, , , ,		, , , , , , , , , , , , , , , , , , ,	
	(A11) Submissons to Design Advisory Panel of ArchSD						·	
	ArchSD's comment (I1) DDA for North Vent.Bldgs. GBP & Arch.Submission							
	(1) DDA for North Vent.Bidgs. GBP & Arch.Submission							
	IP's No Objection Received							
	SO's Review							
	SO Approval with Condition Received							
	(I1) DDA for North & South Vent.Bldg. ABWF works Designer to Reply RtC + Update Submission							
	Submit Updated DDA to SO/ ICE/ IPs							
	ICE Approval & Issue Check Cert			<u> </u>				
	Submit ICE Check Cert to SO							
	IPs Review							
	IP's No Objection Received							
	SO's Review SO Approval with Condition Received							
	(I2) DDA for North Vent.Bldgs.Structural Design incl.Vent.Connections							
	IPs Review							
	IP's No Objection Received							
	SO's Review							
	SO Approval with Condition Received							
	(I3) DDA for North & South Vent.Bldgs. Service and E&M Provision							
	IP's No Objection Received							
	SO's Review							
	SO Approval with Condition Received							
	Construction							
	Substructure Superstructure							
	Finishing Works	şu	iperstructure				Finishing Wor	ks
	Civil Provision for E&MS Contract			·····			n for E&MS Contra	
	Remaining Finishing Works						· ·	R
	North Reclamation (Phase 2)							
	Construction VS - Rock Grade 400 - Zone G							
		Seawall Block - Zone	eG					
	VS - Rock Type A - Zone G	A - Zone G						
	Vertical Seawall - Bermstone - (Zone G)	ucal Seawall - Berm	stone - (Zone G)					
	Vertical Seawall - Seawall Coping - (Zone G)			wall - Seawall Coping - (Zo	one G)			
	Sand Blanket (Zone G)					, , , , ,	· · · · · · · · · · · · · · · · · · ·	
	Band Drain (Zone G) Reclamation - Phase 2	¢ G) tion - Phase 2						
	Backfilling to +10mPD - Phase 2		ackfilling to +10mPD - Phase 2					
	Surcharge - Phase 2				Surcharge - Phase 2			
	Removal of Surcharge - Phase 2				-	rcharge - Phase 2	,	
	Handover - Portion N1 to N4				Handover - Por	tion N1 to N4		* *
	North Approach Ramp							
	Construction Zone G - Sheet Piling					Zone G - Sheet Pil	ina	
	Zone G- Tension Piles						ension Piles	
	Zone G - Pile Test						Zone G - Pi	le Test
	Sub-sea Tunnel							
	Sub-sea TBM Tunnelling							
	Design Submission (G3) DDA for TBM Tunnel Internal Structures (Sub-sea)							
	Sub-sea Tunnel - Precast Gallery Fabrication					 	,   	
	Construction							
	Sub-sea TBM Tunnel - NB ID12.2m - S881							
		(Ch4200 to 3830 - 37						
	NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3830 to 3710 - 120m) NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3710 to 3590 - 120m)	Trimix (Ch3830 to 37						
		hth Trimix (Ch3710 to			1	<u> </u>	· · · · ·	
Paç	ge 6 of 13 Planned Bar TMCLK - Nort	hern Connecti	on Sub-Sea Tunnel Sec	ction		2-Feb-14 TMCLK/DBJGE		SPo
Pro	ject ID: TMCLK DWPF 17W30	ilad Marker D			28	8-Aug-14 TMCLK/DBJGE	N/PRG/98507 Rev. B SPa N/PRG/98507 Rev. C CLa N/PRG/98507 Rev. F WYu	WYu WYu
	Planned Milestone	nea Works Pro	ogramme (Rev. F)			IMULINUBJGE		<b>_</b>
Dat	a Date: 30-Jul-17 Progress bar Thr	ree Months Bo	olling Programme					
	Progress Milestone							
		Progress as	of 30-Jul-17					

ity Name	
ity Name	2017
	Apr May Jun Jul Aug Sep Oct Nov Dec
NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3590 to 3460 - 130m)	andy with Trimix (Ch3590 to 3460 - 130m)
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3460 to 3360 - 100m)	MS silty with Trimix (Ch3460 to 3360 - 100m)
NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3360 to 3160 - 200m)	ALLUVIUMS sandy with Trimix (Ch3360 to 3160 - 200m)
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3160 to 3060 - 100m)	el - ALLUVIUMS silty with Trimix (Ch3160 to 3060 - 100m)
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3060 to 2920 - 140m)	Tunnel - ALLUVIUMS silty with Trimix (Ch3060 to 2920 - 140m)
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2920 to 2820 - 100m)	TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2920 to 2820 - 100m)
NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch2820 to 2720 - 100m)	ea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch2820 to 2720 - 100m)
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2720 to 2673 - 47m)	sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2720 to 2673 - 47m)
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2673 to 2574 - 99m)	Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch/2673 to 2574 - 99m)
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2574 to 2512 - 62m)	8 - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2574 to 2512 62m)
S881 - TBM Removal at Southern Landfall	S881 - TBM Removal at Southern Landfall
Sub-sea TBM Tunnel - SB ID12.2m - S882	
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2694 to 2595 - 99m)	UMS sitty with Trimix (Ch2694 to 2595 - 99m)
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2595 to 2533 - 62m)	UVIUMS silty with Trimix (Ch2595 to 2533 - 62m)
SB - TBM Removal at Southern Landfall	SB - TBM Removal at Southern Landfall
Sub-sea TBM Tunnel - NB - Precast Invert Gallery	
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP27	P27
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP26	to CP26
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP25	tion to CP25
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP24	npletion to CP24
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP23	Completion to CP23
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP22	ery - Completion to/CP22
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP21	allery - Completion to CP21
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP20	ert Gallery - Completion to CP20
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP19	Invert Gallery - Completion to CP19
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP18	ecast Invert Gallery - Completion to CP18
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP17	+ Precast Invert Gallery - Completion to CP17
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP16	nnel - Precast Invert Gallery - Completion to CP16
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP15	Tunnel - Precast Invert Gallery - Completion to CP15
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP14	TBM Tunnel - Precast Invert Gallery - Completion to CP14
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP13	sea TBM Tunnel - Precast Invert Gallery - Completion to CP13
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP12	bub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP12
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP11	B - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP11
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP10	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP10
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP09	NB - Sub-sea TBM Tupped Precast Invert Gallery - Completion to CP09
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP08	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP08
Sub-sea TBM Tunnel - SB - Precast Invert Gallery	
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP21	mpletion to CP21
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP20	- Completion to CF20
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP19	lery - Completion to CP19
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP18	ert Gallery - Completion to CP18
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP17	tInvert Gallery - Completion to CP17
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP16	Precast Invert Galilery - Completion to CP16
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP15	nel - Precast Invert Gallery - Completion to CP15
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP14	Tunnel - Precast Invert Gallery - Completion to CP14
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP13	ea TBM Tunnel - Precast Invert Gallery - Completion to CP13
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP12	ub-sea TBM Tunnél - Precast Invert Gallery - Completign to CP12
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP11	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP1+
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP10	B - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP10
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP09	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP09
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP08	SB - Sub-sea TBM funnel - Precast Invert Gallery - Completion to CP08
Sub-sea Tunnel Cross Passage & Internal Structure	Star Star Star Star Star Star Star Star
Construction	
Sub-sea Tunnel Cross Passage	
CP38 - ML03 - Ch5510	
CP-S6 - WL03 - CHSS10 CP - Pipe Jacking Method - Setup & Assembly	
CP - Piping Jacking Method - Break-in & Excavation	
CP - Pipe Jacking Method - Break-out & Demobilization	
CP - Pipe Jacking Method - Break-out & Demobilization	
CP - Pipe Jacking Method - Setup & Assembly	
CP - Piping Jacking Method - Break-in & Excavation	
CP - Pipe Jacking Method - Break-out & Demobilization	
CP - Remaining Internal Structure & Finishing	
CP36 - ML03 - Ch5315	·····
CP - Pipe Jacking Method - Setup & Assembly	
CP - Piping Jacking Method - Break-in & Excavation	
CP - Pipe Jacking Method - Break-out & Demobilization	
CP - Remaining Internal Structure & Finishing	hishing
CP35 - ML03 - Ch5217	
CP - Pipe Jacking Method - Setup & Assembly	
CP - Piping Jacking Method - Break-in & Excavation	
CP - Pipe Jacking Method - Break-out & Demobilization	dn line line line line line line line lin
CP - Remaining Internal Structure & Finishing	Finishing
CP34 - ML03 - Ch5118	
CP - Pipe Jacking Method - Setup & Assembly	

Acti

	CP - Piping Jacking Method - Break	-in & Excavation		on .							
	CP - Pipe Jacking Method - Break-o	out & Demobilization		emobilization			1			1	
	CP - Remaining Internal Structure 8	Finishing		Structure & Finishing							
	CP33 - ML03 - Ch5020										
	CP - Pipe Jacking Method - Setup a	Assembly			1						
	CP - Piping Jacking Method - Break-in & Excavation         CP - Pipe Jacking Method - Break-out & Demobilization         CP - Remaining Internal Structure & Finishing         CP33 - ML03 - Ch5020         CP - Pipe Jacking Method - Setup & Assembly         CP - Piping Jacking Method - Break-in & Excavation         CP - Pipe Jacking Method - Break-out & Demobilization         CP - Pipe Jacking Method - Break-out & Demobilization         CP - Remaining Internal Structure & Finishing         CP32 - ML03 - Ch4921         CP - Pipe Jacking Method - Setup & Assembly         CP - Pipe Jacking Method - Break-in & Excavation		ation	1							
			Demobilization								
			hal Structure & Finishing			1					
	CP32 - ML03 - Ch4921										
	CP - Pipe Jacking Method - Setup a	Assembly									
	CP - Piping Jacking Method - Break	-in & Excavation		in & Excavation	1	1					
	CP - Pipe Jacking Method - Break-out & Demobilization		reak-out & Demobilization	1							
Page	7 of 13	Planned Bar	TMCLK - Nor	thern Connection Sub-Sea Tunnel Se	ection		12	Date 2-Feb-14	Revision TMCLK/DBJGEN/PRG/98507	Checked WYu	Approved SPo
		Planned Bar - Critical						8-Apr-14 8-Aug-14	TMCLK/DBJGEN/PRG/98507 Rev.B TMCLK/DBJGEN/PRG/98507 Rev.C		WYu WYu
Projec	t ID: TMCLK DWPF 17W30		Deta	ailed Works Programme (Rev. F)					TMCLK/DBJGEN/PRG/98507 Rev.F		Wita
-		<ul> <li>Planned Milestone</li> </ul>	Dela								
Data I	Date: 30-Jul-17	Progress bar	Ты	Three Months Rolling Programme							
		<ul> <li>Progress Milestone</li> </ul>	1 '''	inee Montins Rolling Frogramme							
				Progress as of 30-Jul-17							

	2017 I Apr I May I lun I lul I Aug I San I Oct I Nov I
CP - Remaining Internal Structure & Finishing	Apr May Jun Jul Aug Sep Oct Nov
CP - Remaining internal Structure & Finishing CP31 - ML03 - Ch4823	
CP - Pipe Jacking Method - Setup & Assembly	
CP - Piping Jacking Method - Break-in & Excavation	ak-in & Excavation
CP - Piping Jacking Method - Break-out & Demobilization	Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	hing Internal Structure & Finishing
CP30 - ML03 - Ch4724	
CP-30 - ME03 - CH4724 CP - Pipe Jacking Method - Setup & Assembly	
CP - Piping Jacking Method - Break-in & Excavation	thad Prack in <sup>9</sup> Evanuation
CP - Piping Jacking Method - Break-out & Demobilization	thod - Break-in & Excavation
	ig Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	P - Remaining Internal Structure & Finishing
CP29 - ML03 - Ch4626 CP - Pipe Jacking Mathed - Sature & Accomply	
CP - Pipe Jacking Method - Setup & Assembly	Lathed Break is & Evenuation
CP - Piping Jacking Method - Break-in & Excavation	Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	king Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP28 - ML03 - Ch4527 CP - Pipe Jacking Mathed - Satup & Accomply	
CP - Pipe Jacking Method - Setup & Assembly	
CP - Piping Jacking Method - Break-in & Excavation	g Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	- Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP27 - ML03 - Ch4429	
CP - Pipe Jacking Method - Setup & Assembly	W
CP - Piping Jacking Method - Break-in & Excavation	ping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	P - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP26 - ML03 - Ch4330	
CP - Pipe Jacking Method - Setup & Assembly	embly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP25 - ML03 - Ch4232	
CP - Pipe Jacking Method - Setup & Assembly	Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP24 - ML03 - Ch4133	
CP - Pipe Jacking Method - Setup & Assembly	& Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP23 - ML03 - Ch4035	
CP - Pipe Jacking Method - Setup & Assembly	- Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demovilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP22 - ML03 - Ch3936	
CP - Pipe Jacking Method - Setup & Assembly	pd - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-in & Elcavation
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP21 - ML03 - Ch3838	
CP - Pipe Jacking Method - Setup & Assembly	Mathod - Satur & Accombly
CP - Piping Jacking Method - Break-in & Excavation	Method - Setup & Assembly
	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP20 - ML03 - Ch3739	
CP - Pipe Jacking Method - Setup & Assembly	ng Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP19 - ML03 - Ch3641	
CP - Pipe Jacking Method - Setup & Assembly	king Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP18 - ML03 - Ch3542	
CP - Pipe Jacking Method - Setup & Assembly	Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP17 - ML03 - Ch3444	
CP - Pipe Jacking Method - Setup & Assembly	Pipe Jacking Methold - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Pipe Jacking Method - Break-out & Demoolilization
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CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	
	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP13 - ML03 - Ch3050	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CPi- Remaining Internal Structure & Finishing
CP12 - ML03 - Ch2951	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobiliza
CP - Remaining Internal Structure & Finishing	CP - Remàining Internal Structure &
CP11 - ML03 - Ch2853	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobil
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure
CP10 - ML03 - Ch2754	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Exc
CP - Pipe Jacking Method - Break-out & Demobilization	
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CP - Remaining Internal Structure & Finishing	CP - Remaining Intern
CP09 - ML03 - Ch2656	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & E
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-o
CP - Remaining Internal Structure & Finishing	CP - Remaining Inter
CP08 - ML03 - Ch2557	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Br
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Metho
CP - Remaining Internal Structure & Finishing	CP - Remaini
Sub-sea TBM Tunnel - NB - Remaining Internal Structure	
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NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP31	nel - Corbel & Cable Trough - Completion to CP31
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NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP30	TBM Tunnel - Corbel & Cable Trough - Completion to CP30
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NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23
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NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM - Sub-sea TBM Tunnel - Corbel & Cable - Trough - Completion to CP16
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16 NB - Sub-sea TBM - Sub-sea TBM Tunnel - Corbel & Cable - Trough - Completion to CP16
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP08	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP08	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP08         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP08         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP46	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP08         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP08         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP46	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - Orbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP08         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP45         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP45         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP45         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Com	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - Orbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP45         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Com	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP08         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP45         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP45         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP45         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Co	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - Orbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP45         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Com	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Co	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Co	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Co	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough
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NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Co	INB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         INB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         INB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         INB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         INB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         INB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         INB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         INB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corbel & Cab
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NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP45         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Co	Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough -
<ul> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP18</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP17</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP16</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP15</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP14</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP13</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP14</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP13</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP12</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP11</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP10</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP10</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP09</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP09</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP46</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP41</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP40</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP39</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP38</li> &lt;</ul>	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 37 n - Completion to CP 35
<ul> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP18</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP17</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP16</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP15</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP11</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP13</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP13</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP12</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP11</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP10</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP10</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP10</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP10</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP10</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP10</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP41</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP39</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP41</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP39</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP36</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP36</li> <l< td=""><td>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Tough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Tough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Tough - Completion to CP38         to rot CP35         to rot CP35         to installation - Completion to CP34   </td></l<></ul>	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Tough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Tough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Tough - Completion to CP38         to rot CP35         to rot CP35         to installation - Completion to CP34
<ul> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP18</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP17</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP16</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP15</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP11</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP13</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP13</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP11</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP11</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP11</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP10</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP10</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP10</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP10</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP09</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP41</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP40</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43</li> <l< td=""><td>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP 19 NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP 37 n - Completion to CP 35</td></l<></ul>	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 16 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 37 n - Completion to CP 35
<ul> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP18</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP17</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP16</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP15</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP11</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP13</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP11</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP12</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP11</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP10</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP10</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP10</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP10</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP10</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP48</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP45</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP40</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP39</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP40</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP40</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP39</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP36</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP35</li> <l< td=""><td>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Tough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Tough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Tough - Completion to CP38         to rot CP35         to rot CP35         to installation - Completion to CP34   </td></l<></ul>	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Tough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Tough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Tough - Completion to CP38         to rot CP35         to rot CP35         to installation - Completion to CP34
<ul> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP18</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP17</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP16</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP15</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP14</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP13</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP11</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP11</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP11</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP10</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP09</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP08</li> <li>NB - Sub-sea TBM Tunnel - Corbel &amp; Cable Trough - Completion to CP08</li> <li>NB - Sub-sea TBM Tunnel - Orbel &amp; Cable Trough - Completion to CP08</li> <li>NB - Sub-sea TBM Tunnel - Orbel &amp; Cable Trough - Completion to CP48</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP41</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP41</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP39</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP38</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP38</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP36</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP35</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP35</li> <li></li></ul>	MB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         MB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         MB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         MB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         MB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         MB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         MB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         MB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         MB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         MB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         MB - Sub-sea TBM Tunnel - Corbel & Cable Trough -
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - Orbel & Cable Trough - Completion to CP08         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43         NB - Sub-sea TBM Tunnel - OHVD Slab installation - C	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Silb-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP35 Bib installation - Completion to CP34 Biab installation - Completion to CP35 Bib installation - Completion to CP32 mel - OHVD Stab installation - Completion to CP31
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP40         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP41         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP41         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP41         NB - Sub-sea TBM Tunnel - OHVD Slab installation - C	MB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         MB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         MB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         MB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         MB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         MB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         MB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         MB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         MB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         MB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         MB - Sub-sea TBM Tunnel - Corbel & Cable Trough -
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - C	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Silb-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP35 Bib installation - Completion to CP34 Biab installation - Completion to CP35 Bib installation - Completion to CP32 mel - OHVD Stab installation - Completion to CP31
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP08         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP45         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42         NB - Sub-sea TBM Tunnel - OHVD Slab installation -	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP37         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP32         Ti - Completion to CP35         Bib installation - Completion to CP32         Ti - Completion to CP35
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP08         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP08         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP45         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42         NB - Sub-sea TBM Tunnel - OHVD Slab installation -	Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         Image: NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corplet & Cable Trough
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP08         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP46         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP45         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP41         NB - Sub-sea TBM Tunnel - OHVD Slab installation -	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corpelation to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corpelation to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corpelation to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corpelation to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corpelation to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP38         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP37         n - Completion to CP35         tion - Completion to CP34         Biab installation - Completion to CP32         termel - OHVD Slab installation - Completion to CP32         termel - OHVD Slab installation - Completion to CP32         termel - OHVD Slab installation - Completion to CP32         termel - OHVD Slab installation - Completion to CP32         termel - OHVD Slab installatio
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP08         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP45         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42         NB - Sub-sea TBM Tunnel - OHVD Slab installation -	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corpel & Cable Trough - Corbel & Cable Trough - Carbel & Cable Trough - Car
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP08         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP08         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP41         NB - Sub-sea TBM Tunnel - OHVD Slab installation -	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 19         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP 18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Cable
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP08         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP45         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP41         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP41         NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP41         NB - Sub-sea TBM Tunnel - OHVD Slab installation -	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corpelation to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corpelation to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corpelation to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corpelation to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Corpelation to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP38         NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP37         n - Completion to CP35         tion - Completion to CP34         Biab installation - Completion to CP32         termel - OHVD Slab installation - Completion to CP32         termel - OHVD Slab installation - Completion to CP32         termel - OHVD Slab installation - Completion to CP32         termel - OHVD Slab installation - Completion to CP32         termel - OHVD Slab installatio

Activity Name

Name	2017
	Apr May Jun Jul Aug Sep Oct Nov Dec
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP29	p-sea TBM Tunnel - OHVD Slab installation - Completion to CP29
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP28	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP28
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP27	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP27
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP26	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP26
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP25	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP25
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP24	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP24
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP23	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP23
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP22	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP22
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP21	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP21
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP20	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP20
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP19	
•	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP19
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP18	NB -Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP18
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP17	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP17
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP16	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP16
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP15	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP15
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP14	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP13	MB - Sub-sea TBM Tunnel - OHVD Slab installation - Comple
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP12	NB - Sub-sea TBM Tunnel - OHVD Slab installation
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP11	NB - Sub-sea TBM Tunnel - OHVD Slab installat
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP10	NB - Sub-sea TBM Tunnel - OHVD Sla
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09	■ NB - Sub-sea TBM Tunnel - O
	■ Jub - Sub-sea IBM lunnei - O
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48	
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47	
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46	
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45	
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44	
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43	
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP42	
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41	
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40	
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39	
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38	38 38 39 39 39 39 39 39 39 39 39 39 39 39 39
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37	CP37
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36	pletion to CP36
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP35	Completion to CP35
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NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32	nnel - Fire Proofing - Completion to CP32
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31	······································
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30	Tunnel - Fire Proofing - Completion to CP31
	-sea TBM Tunnel - Fire Proofing - Completion to CP30
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP29	ub-sea TBM Tunnel - Fire Proofing - Completion to CP29
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP27	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP27
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP26	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP26
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP25	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP25
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP24	NB - Sub-sea TBM Tunnel - Fire Proofing Completion to CP24
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP23	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP23
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP22	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP22
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP21	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP22
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP20	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP20
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP19	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP19
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP18	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP18
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP17	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP17
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP16	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP16
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP15	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP15
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP14	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP1
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP13	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to C
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP12	NB - Sub-sea TBM/Tunnel - Fire Proofing - Comp
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP11	······································
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP10	NB - Sub-sea TBM Tunnel - Fire Proc
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP09	NB - Sub-sea TBM Tunnel -
NB - Sub-sea TBM Tunnel - Road Level Fire Proofing	
Sub-sea TBM Tunnel - SB - Remaining Internal Structure	
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP41	
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP40	
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP39	
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP38	to CP38
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SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP37	on to CP37
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP36	Completion to CP36
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP35	ph - Completion to CP35
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP34	ble Trough - Completion to CP34
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP33	Cable Trough - Completion to CP33
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP32	- Corbel & Cable Trough - Completion to CP32
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP31	
	nel - Corbel & Cable Trough - Completion to CP31
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP30	TBM Tunnel - Corbel & Cable Trough - Completion to CP30
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP29	sea TBM Tunnel - Corbel & Cable Trough - Completion to CP29

SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP29
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP28
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP27
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18

TBM funnel - Corper & Caple Trough - Completion to CP30	
sea TBM Tunnel - Corbel & Cable Trough - Completion to CP29	
\$B - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP2	
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough- Completion to CP27	
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26	
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25	
SB - Sub-sea TBM Tunnel - Corbel & Cable Traugh - Completion to CP24	
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23	
SB - Sub-sea TBM Tunnel - Corbeil & Cable Trough - Completion to CP22	
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21	
SB - Sub-sea TBM Junnel - Corbel & Cable Trough - Completion to CP20	
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19	
SB - Sub-sea TBM Tunnel - Corbel & Cable, Trough - Completion to CP18	

Page 10 of 13	Planned Bar	TMCLK - Northern Connection Sub-Sea Tunnel Section	12-Fe	Date Revision eb-14 TMCLK/DBJGEN/PRG/985	Checked 7 WYu	Approved SPo
Project ID: TMCLK DWPF 17W30	Planned Bar - Critical Planned Milestone	Detailed Works Programme (Rev. F)	08-Ap 28-Au 30-Oc	ug-14 TMCLK/DBJGEN/PRG/985	7 Rev. C CLa	WYu WYu
Data Date: 30-Jul-17	<ul> <li>Progress bar</li> <li>Progress Milestone</li> </ul>	Three Months Rolling Programme				
		Progress as of 30-Jul-17				

Activity Name	
	2017 Apr May Jun Jul Aug Sep Oct Nov E
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17	Apr May Jun Jul Aug Sep Oct Nov E
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP16
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP15	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP1
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP14	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Complet
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP13	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Com
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP12	SB - Sub-sea TBM Tunnel - Corbel & Cable Trou
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11	SB - Sub-sea TBM Tunnel - Corbel & Cable T
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP10	SB - Sub-sea TBM Tunnel - Corbel
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP09	SB - Sub-sea TBM Tunnel - Cort
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP08	SB - Sub-sea TBM Tun
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48 SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47	
SB - Sub-sea TBM Tunnel - OHVD Slab Installation - Completion to CP46	
SB - Sub-sea TBM Tunnel - OHVD Stab Installation - Completion to CP45	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP41	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP40	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP39	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP38	pn to CP38
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP37	etion to CP37
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP36	ph - Completion to CP36
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP35	ation - Completion to CP35
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP34	b installation - Completion to CP34
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP33	Slab installation - Completion to CP33
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP32	nel - OHVD Slab installation - Completion to CP32
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP31	Junnel - OHVD Slab installation - Completion to CP31
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP30	sea TBM Tunnel - OHVD Slab installation - Completion to CP30
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP29	ib-sea TBM Tunnel - OHVD Slab installation - Completion to CP29
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP28	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to C 28
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP27	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP27
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP26	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP26
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP25	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP25
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP24	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP24
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP23	SB - Sub-sea TBM Tunnel - OHVD State installation - Completion to CP23
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP22	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP22
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP21	SB - Sub-sea TBM Tunnel OHVD Slab installation - Completion to CP21
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP20	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP20
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP19	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP19
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP18	SB Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP18
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP17	SB - Sub-sea TBM,Tunnel - OHVD Stab installation - Completion to CP17
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP16	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP1
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP15	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to C
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP14	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Comp
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP13	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Co
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP12	SB - Sub-sea TBM Tunnel - OHVD Slab instal
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP11	SB - Sub-sea TBM Tunnel - OHVD Slab in
Elle Fulle and IBM Tunnel, OHMD Cleb installation, Completion to OD10	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP10	SB - Sub-sea TBM Tunnel - OH
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09	SB - Sub-sea TBM Tunnel - OH
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP42	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP42         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP42         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP42         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40	SB - Sub-sea TBM Tunnel - Ot
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38	SB - Sub-sea TBM Tunnel - Ot
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP42SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37	B - Sub-sea TBM Tunnel - Ot
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36	SB - Sub-sea TBM Tunnel - Ot
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP42SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP35	SB - Sub-sea TBM Tunnel - Of SB - Sub-sea TBM
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32	SB - Sub-sea TBM Turnel - Or SB - Sub-sea TBM
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31	SB - Sub-sea TBM Tunnel - Ol SB - Sub-sea TBM
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP42SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30	SB - Sub-sea TBM Turnel - Ol SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP30
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30         SB - Sub-se	SB - Sub-sea TBM Turnel - Ol SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP30 Sub-sea TBM Turnel - Fire Proofing - Completion to CP29
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28	SB - Sub-sea TBM Turnel - Ol SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP30
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP27	SB - Sub-sea TBM Turnel - Oi SB - Sub-sea TBM Turnel - Oi SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP27
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP29SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP27SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP26	SB - Sub-sea TBM Turnel - Ol SB - Sub-sea TBM Turnel - Ol SB - Sub-sea TBM Turnel - Ol SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP30 Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP29SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP29SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP26SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP26SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP26<	SB - Sub-sea TBM Turnel - Ol SB - Sub-sea TBM Turnel - Ol SB - Sub-sea TBM Turnel - Ol SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP35 Sub-sea TBM Turnel - Fire Proofing - Completion to CP30 Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP27 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP26 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP42         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-se	SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP23SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP23SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP24<	SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP26 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP24 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP24 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP23
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP09         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP35         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP22         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP23         SB - Sub-se	SB - Sub-sea TBM Turnel - Ol         P38         CP37         tipleton to CP36         Completion to CP35         ofing - Completion to CP35         ofing - Completion to CP35         Innel - Fire Proofing - Completion to CP30         Sub-sea TBM Turnel - Fire Proofing - Completion to CP29         SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28         SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28         SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28         SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28         SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28         SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28         SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28         SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28         SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25         SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP23         SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP23         SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP23         SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP23         SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP23         SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP24         SB - Sub-sea TBM Turnel - Fire Proofing - Completion to C
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SB - Sub-sea TBM Tunnel - Fire Prooting - Completion to CP48         SB - Sub-sea TBM Tunnel - Fire Prooting - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Prooting - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Prooting - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Prooting - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Prooting - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Prooting - Completion to CP43         SB - Sub-sea TBM Tunnel - Fire Prooting - Completion to CP41         SB - Sub-sea TBM Tunnel - Fire Prooting - Completion to CP40         SB - Sub-sea TBM Tunnel - Fire Prooting - Completion to CP39         SB - Sub-sea TBM Tunnel - Fire Prooting - Completion to CP39         SB - Sub-sea TBM Tunnel - Fire Prooting - Completion to CP38         SB - Sub-sea TBM Tunnel - Fire Prooting - Completion to CP36         SB - Sub-sea TBM Tunnel - Fire Prooting - Completion to CP36         SB - Sub-sea TBM Tunnel - Fire Prooting - Completion to CP36         SB - Sub-sea TBM Tunnel - Fire Prooting - Completion to CP34         SB - Sub-sea TBM Tunnel - Fire Prooting - Completion to CP34         SB - Sub-sea TBM Tunnel - Fire Prooting - Completion to CP31         SB - Sub-sea TBM Tunnel - Fire Prooting - Completion to CP31         SB - Sub-sea TBM Tunnel - Fire Prooting - Completion to CP30         SB - Sub-sea TBM Tunnel - Fire Prooting - Completion to CP23         SB - Sub-sea TBM Tun	SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP21 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP20 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP20 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP20 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP15 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP15
SB - Sub-sea TBM Tunnel - OHVD Slab instaliation - Completion to CP09         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP23         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP24         SB - Sub-se	SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP26 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP26 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP26 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP19 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP35         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP35         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP23         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP24         SB - Sub-sea TBM Tun	38       SB - Sub-sea TBM Tunnel - OI         738       CP37         tpleton to CP36       Completon to CP36         Completon to CP36       Completon to CP33         fronding - Completion to CP33       Completon to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP39       Sub-sea TBM Tunnel - Fire Proofing - Completon to CP39         Sub-sea TBM Tunnel - Fire Proofing - Completon to CP29       SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP29         SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP29       SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP26         SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP26       SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP27         SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP28       SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP28         SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP28       SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP28         SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP28       SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP28         SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP28       SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP29         SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP29       SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP20         SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP19       SB - Sub-sea TBM Tunnel -
SB - Sub-sea TBM Tunnel - OHVD Slab instaliation - Completion to CP09         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP23         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP24         SB - Sub-se	SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP25 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP26 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP26 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP26 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP26 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP26 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP26 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP26 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP27 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP28 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP21 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP21 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP21 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP21 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP21 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP21 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18 SB - Sub-sea TBM Turnel - Fire Proofing - Completion to CP18
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP49         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP23         SB - Sub-sea TBM Tun	38       SB - Sub-sea TBM Tunnel - OI         738       CP37         tpleton to CP36       Completon to CP36         Completon to CP36       Completon to CP33         fronding - Completion to CP33       Completon to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP39       Sub-sea TBM Tunnel - Fire Proofing - Completon to CP39         Sub-sea TBM Tunnel - Fire Proofing - Completon to CP29       SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP29         SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP29       SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP26         SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP26       SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP27         SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP28       SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP28         SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP28       SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP28         SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP28       SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP28         SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP29       SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP21         SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP21       SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP21         SB - Sub-sea TBM Tunnel - Fire Proofing - Completon to CP21       SB - Sub-sea TBM Tunnel -
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP49         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP29         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28         SB - Sub-sea TBM Tun	SB - Sub-sea TBM Turnet - OL         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP30         Sub-sea TBM Turnet - Fire Proofing - Completion to CP20         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP20         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP20         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP20         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP20         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP20         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP20         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP20         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP21         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP21         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP22         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP21         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP21         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP21         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP21         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP21         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP21         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP49         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP29         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28         SB - Sub-sea TBM Tun	38       S8 - Sub-sea TBM Turnet - O         39       CP37         pleton to CP36       Completion to CP35         completion to CP35       Completion to CP33         nonel - Fire Proofing - Completion to CP39       S8 - Sub-sea TBM Turnet - Fire Proofing - Completion to CP28         S8 - Sub-sea TBM Turnet - Fire Proofing - Completion to CP28       S8 - Sub-sea TBM Turnet - Fire Proofing - Completion to CP28         S8 - Sub-sea TBM Turnet - Fire Proofing - Completion to CP28       S8 - Sub-sea TBM Turnet - Fire Proofing - Completion to CP28         S8 - Sub-sea TBM Turnet - Fire Proofing - Completion to CP28       S8 - Sub-sea TBM Turnet - Fire Proofing - Completion to CP28         S8 - Sub-sea TBM Turnet - Fire Proofing - Completion to CP28       S8 - Sub-sea TBM Turnet - Fire Proofing - Completion to CP28         S8 - Sub-sea TBM Turnet - Fire Proofing - Completion to CP28       S8 - Sub-sea TBM Turnet - Fire Proofing - Completion to CP21         S8 - Sub-sea TBM Turnet - Fire Proofing - Completion to CP21       S8 - Sub-sea TBM Turnet - Fire Proofing - Completion to CP21         S8 - Sub-sea TBM Turnet - Fire Proofing - Completion to CP21       S8 - Sub-sea TBM Turnet - Fire Proofing - Completion to CP21         S8 - Sub-sea TBM Turnet - Fire Proofing - Completion to CP17       S8 - Sub-sea TBM Turnet - Fire Proofing - Completion to CP17         S8 - Sub-sea TBM Turnet - Fire Proofing - Completion to CP18       S8 - Sub-sea TBM Turnet - Fire Proofing - Completion to CP18         S8 - Sub-sea TBM
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SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP49         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP42         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP42         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP35         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP23         SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP24         SB - Sub-sea TBM Tun	SB - Sub-sea TBM Turnet - OL         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP30         Sub-sea TBM Turnet - Fire Proofing - Completion to CP20         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP20         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP20         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP20         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP20         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP20         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP20         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP20         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP21         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP21         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP22         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP21         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP21         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP21         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP21         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP21         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP21         SB - Sub-sea TBM Turnet - Fire Proofing - Completion to CP
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	Apr	May Jun	Jul	2017 Aug	Sep	Oct	Nov De
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP11	Apr		Jui	Aug			BM Tunnel - Fire Proofing -
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP10			1 1 1		-	i i	Sub-sea TBM Tunnel - Fire I
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP09						1	Sub-sea TBM Tunnel - Fire
SB - Remaining Fire Proofing in Tunnel							
Southern Landfall				1 1			
South Cut & Cover Tunnel		1 I 1 I 1 I	1	1 1 1			
Design Submission							
(E2) DDA for South C&C Box & Approach Ramp							
Review & Comment by JV		1 I 1 I 1 I	1	1 1 1			
Designer prepare DDA	1		r	T		   	   
Formal Submission of DDA to ICE/ IPs			1				
Advanced Submission to SO							
IPs/SO'sAdvance Comments/ ICE Comments			- - 				
Comments Received			1				
Designer to Reply RtC + Update Submission	1	7       	r	T		,,	· · · · · · · · · · · · · · · · · · ·
Submit Updated DDA to SO/ ICE/ IPs							
ICE Approval & Issue Check Cert							
Submit ICE Check Cert to SO	1		1 1 1				
IPs Review	1			1			
SO's Review				1			
Method Statement Submission							
Method Statement of Construction Methodology of C&C Tunnels							
Preparation Method Statement for C&C Tunnels							
Submit Method Statement to SO	1		1				
SO Reviews & Comments			r	,			
Re-submission							
SO's Review			 	- - 			
Construction			1				
Provision for TCSS/E&M for Stage 2				<b>.</b>		Provision for TCSS	E&M for Stage 2
South Retrieval Shaft							
Design Submission			1				
(F4) Gantry Crane Support/Foundations in Southern Landfall			1				
Designer to Reply RtC + Update Submission							
Submit Updated IFA to SO/ ICE/ IPs	1	· · · · · · · · · · · · · · · · · · ·	1				
ICE Approval & Issue Check Cert			r	1 1			
IPs Review							
IP's No Objection Received							
SO's Review				1			
SO Approval with Condition Received	1						
Method Statement Submission							
Method Statement of Construction Methodology of Retrieval Shaft							
Preparation Method Statement for Retrieval Shaft							
Submit Method Statement to SO			1				
SO Reviews & Comments			, , ,	1 1 1			
Re-submission							
SO's Review							
Construction			1				
Retrieval Shaft - Excavation - Soft by ramp							
Retrieval Shaft - Excavation - Soft by vertical mean (Fill material)			, , ,	, , , ,			
Retrieval Shaft - Excavation - Soft (other than Fill)							
Retrieval Shaft - Temp. Slab/Prepare for TBM Breakthrough							
Retrieval Shaft - Mobilization for Retrieval Shaft Tunnel Structure			Retrieva	Shaft - Mobilizatior	for Retrieval Sha	aft Tunnel Structure	
Retrieval Shaft - Tunnel Structure							
South Ventilation Building		;	, ,	: ; ;		¦	
Design Submission							
(I1) DDA for South Vent.Bldg. GBP & Arch.Submission							
IPs Review							
IP's No Objection Received			1				
SO's Review				1 1 1 1			
SO Approval with Condition Received							
(I2) DDA for South Vent.Bldg. Foundation Design							
Review & Comment by JV				1			
Designer prepare DDA			1	1			
Formal Submission of DDA to ICE/ IPs				1 1 T			j
			1				
Advanced Submission to SO						: :	
IPs/SO'sAdvance Comments/ ICE Comments							
IPs/ SO'sAdvance Comments/ ICE Comments Comments Received							
IPs/ SO'sAdvance Comments/ ICE Comments Comments Received Designer to Reply RtC + Update Submission				•			
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IPs/SO's Advance Comments/ICE Comments Comments Received Designer to Reply RtC + Update Submission Submit Updated DDA to SO/ICE/IPs ICE Approval & Issue Check Cert							
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IPs/SO's Advance Comments/ICE Comments         Comments Received         Designer to Reply RtC + Update Submission         Submit Updated DDA to SO/ICE/IPs         ICE Approval & Issue Check Cert         IPs Review         SO's Review         (12) DDA for South Vent.Bldg.Structural Design incl.Vent.Connections         Review & Comment by JV							
IPs/SO's Advance Comments/ICE Comments         Comments Received         Designer to Reply RtC + Update Submission         Submit Updated DDA to SO/ICE/IPs         ICE Approval & Issue Check Cert         IPs Review         SO's Review         (I2) DDA for South Vent.Bldg.Structural Design incl.Vent.Connections         Review & Comment by JV         Designer prepare DDA							
IPs/SO's Advance Comments/ICE Comments         Comments Received         Designer to Reply RtC + Update Submission         Submit Updated DDA to SO/ICE/IPs         ICE Approval & Issue Check Cert         IPs Review         SO's Review         (I2) DDA for South Vent.Bldg.Structural Design incl.Vent.Connections         Review & Comment by JV         Designer prepare DDA         Formal Submission of DDA to ICE/IPs							
IPs/SO'sAdvance Comments/ICE Comments         Comments Received         Designer to Reply RtC + Update Submission         Submit Updated DDA to SO/ICE/IPs         ICE Approval & Issue Check Cert         IPs Review         SO's Review         (I2) DDA for South Vent.Bldg.Structural Design incl.Vent.Connections         Review & Comment by JV         Designer prepare DDA         Formal Submission of DDA to ICE/IPs         Advanced Submission to SO							
IPs/SO's Advance Comments/ ICE Comments         Comments Received         Designer to Reply RtC + Update Submission         Submit Updated DDA to SO/ ICE/ IPs         ICE Approval & Issue Check Cert         IPs Review         SO's Review         (I2) DDA for South Vent.Bldg.Structural Design incl.Vent.Connections         Review & Comment by JV         Designer prepare DDA         Formal Submission of DDA to ICE/ IPs         Advanced Submission to SO         IPs/SO's Advance Comments/ ICE Comments							
IPs/SO's Advance Comments/ ICE Comments         Comments Received         Designer to Reply RtC + Update Submission         Submit Updated DDA to SO/ ICE/ IPs         ICE Approval & Issue Check Cert         IPs Review         SO's Review         (I2) DDA for South Vent.Bldg.Structural Design incl.Vent.Connections         Review & Comment by JV         Designer prepare DDA         Formal Submission of DDA to ICE/ IPs         Advanced Submission to SO         IPs/SO's Advance Comments/ ICE Comments         Comments Received							
IPs/SO's Advance Comments/ ICE Comments         Comments Received         Designer to Reply RtC + Update Submission         Submit Updated DDA to SO/ ICE/ IPs         ICE Approval & Issue Check Cert         IPs Review         SO's Review         (I2) DDA for South Vent.Bldg.Structural Design incl.Vent.Connections         Review & Comment by JV         Designer prepare DDA         Formal Submission of DDA to ICE/ IPs         Advanced Submission to SO         IPs/ SO's Advance Comments/ ICE Comments         Comments Received         Designer to Reply RtC + Update Submission							
IPs/SO's Advance Comments/ ICE Comments         Comments Received         Designer to Reply RtC + Update Submission         Submit Updated DDA to SO/ ICE/ IPs         ICE Approval & Issue Check Cert         IPs Review         SO's Review         (I2) DDA for South Vent.Bldg.Structural Design incl.Vent.Connections         Review & Comment by JV         Designer prepare DDA         Formal Submission of DDA to ICE/ IPs         Advanced Submission to SO         IPs/SO's Advance Comments/ ICE Comments         Comments Received         Designer to Reply RtC + Update Submission         Submit Updated DDA to SO/ ICE/ IPs							
IPs/SO'sAdvance Comments/ICE Comments         Comments Received         Designer to Reply RtC + Update Submission         Submit Updated DDA to SO/ ICE/IPs         ICE Approval & Issue Check Cert         IPs Review         SO's Review         (I2) DDA for South Vent.Bldg.Structural Design incl.Vent.Connections         Review & Comment by JV         Designer prepare DDA         Formal Submission of DDA to ICE/IPs         Advanced Submission to SO         IPs/SO's Advance Comments/ICE Comments         Comments Received         Designer to Reply RtC + Update Submission         Submit Updated DDA to SO/ICE/IPs         ICE Approval & Issue Check Cert							
IPs/SO's Advance Comments/ ICE Comments         Comments Received         Designer to Reply RtC + Update Submission         Submit Updated DDA to SO/ ICE/ IPs         ICE Approval & Issue Check Cert         IPs Review         SO's Review         (I2) DDA for South Vent.Bldg.Structural Design incl.Vent.Connections         Review & Comment by JV         Designer prepare DDA         Formal Submission of DDA to ICE/ IPs         Advanced Submission to SO         IPs/SO's Advance Comments/ ICE Comments         Comments Received         Designer to Reply RtC + Update Submission         Submit Updated DDA to SO/ ICE/ IPs							
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Progress as of 30-Jul-17

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Appendix C

Environmental Mitigation and Enhancement Measure Implementation Schedules

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

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

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Im	plementa Stages	tion	Status *
	Kererence					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		V
WATER QUAL	ITY								
Marine Works (Seq	uence A)								
6.1	Annex A	Construction of seawalls to be advanced by at least 200m before the main reclamation dredging and filling can commence. The protection by advanced seawall is a dynamic process depending on the progress of the construction activities and the stage when such protection could be realised is illustrated in Figure 6.2a and detailed in Appendix D6a. The part of the works where such measures can be undertaken for the majority of the time includes the following locations:	backfilling works	Contractor	TM-EIAO		Y		~
Figure 6.2a Appendix D6a		- TM-CLKL northern reclamation;							
6.1	-	a maximum of 50% public fill to be used for all seawall filling below +2.5mPD for TM-CLKL southern and northern landfalls.	TM-CLKL seawall filling	Contractor	TM-EIAO		Y		~

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Reference					D	С	0	
12.6		The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges.	Contract mobilisation	Contractor	TMEIA, Land (Miscellaneous Provisions) Ordinance (Cap 28); Waste Disposal Ordinance (Cap 354); Dumping at Sea Ordinance (Cap 466); Water Pollution Control Ordinance.		Y		
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedures including waste reduction, reuse and recycling.		Contractor	TMEIA		Y		1
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		

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

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

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

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

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
	Reference					D	С	0	
12.6	8.1	General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins shall be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By- laws. In addition, general refuse shall be cleared daily and shall be disposed of to the nearest licensed landfill or refuse transfer station. Burning of refuse on construction sites is prohibited.	construction period	Contractor	TMEIA		Y		<>
12.6	8.1	All waste containers shall be in a secure area on hardstanding;	All areas / throughout construction period	Contractor	TMEIA		Y		1
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including waste reduction, reuse and recycling.		Contractor	TMEIA		Y		-
12.6	8.1	Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the Contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	construction period	Contractor	TMEIA		Y		<b>~</b>
12.6	Section 8	EM&A of waste handling, storage, transportation, disposal procedures and documentation through the site audit programme shall be undertaken.	0	Contractor	EM&A Manual		Y		<b>_</b>
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
- $\Delta$  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 <sup>3</sup>	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	ne & ANI < 40% of baseline]			
		and			
	STG < 40% of baseli	ne & ANI < 40% of baseline			
Notes:					
1. STG means quar	terly encounter rate of number of dol	phin sightings, which is <b>6.00</b> 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 11/06/2017
Sampler		
Model	:	TE-5170
Serial Number	:	S/N 0816
Calibration Orifice and Standar	rd Calibra	tion Relationship
Serial Number	:	2454
Service Date	:	20 March 2017
Slope (m)	:	2.08464
Intercept (b)	:	-0.036840
Correlation Coefficient(r)	:	0.99994
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)		1008
Ta(K)	•	304
1 a(1x)	•	504

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

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

Sampler Calibration Relationship (Linear Regression)

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

Correlation Coefficient(r): 0.9996

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

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

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

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):32.549

Intercept(b): 3.252

Correlation Coefficient(r): 0.9992

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

Date: 15/06/17

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

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

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):32.222

Intercept(b):2.151

Correlation Coefficient(r): 0.9995

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

Date: 15/06/2017

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

#### Calibration Orifice and Standard Calibration Relationship

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

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

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

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

Sampler Calibration Relationship (Linear Regression)

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

correlation Coefficient(r): 0.9997

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

Date: 15/06/2017

#### High-Volume TSP Sampler 5-Point Calibration Record

Location Calibrated by Date	: : :	ASR 6 P.F.Yeung 11/06/2017
Sampler		
Model	:	TE-5170
Serial Number	:	S/N 3957
Calibration Orfice and Standar	d Calibrat	tion Relationship
Serial Number	:	2454
Service Date	:	20 March 2017
Slope (m)	:	2.08464
Intercept (b)	:	-0.036840
Correlation Coefficient(r)	:	0.99994

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

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

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

Sampler Calibration Relationship (Linear Regression)

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

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

Correlation Coefficient(r): 0.9991

Checked by: Magnum Fan

Date: 15/06/2017



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

#### ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

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

#### DATA TABULATION

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

#### CALCULATIONS

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

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

For subsequent flow rate calculations:

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

### **ENVIROTECH SERVICES CO.**

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

**Calibration Report of Wind Meter** 

Wind Still Test

Wind Speed (m/s) 0.00

Wind Speed Test

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

Wind Direction Test

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

Calibrated by:

Ao

Checked by: Fat

Yeung Ping Fai (Technical Officer)

Ho Kam Fat (Senior Technical Officer)

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 - July 2017

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

,	лэ. догст, догсо, догсо, д					
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Sunday	Monday	Tuesday	weunesuay	mursuay	ГПЦау	public holiday 1-Ju
2-Jul	2 101	<b>A</b> 1.1	E lui	C. Iul	7 1.1	0.1
2-Jui 1-hour TSP - 3 times	3-Jul		5-Jul 1-hour TSP - 3 times	6-Jul	7-Jul	8-Ju 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
9-Jul	10-Jul		12-Jul	13-Jul	14-Jul	15-Ju
		1-hour TSP - 3 times			1-hour TSP - 3 times	
		24-hour TSP - 1 time			24-hour TSP - 1 time	
		Impact AQM			Impact AQM	
16-Jul			19-Jul	20-Jul		
	1-hour TSP - 3 times			1-hour TSP - 3 times		
	24-hour TSP - 1 time			24-hour TSP - 1 time		
00.1.1	Impact AQM	05.1.1	00.1.1	Impact AQM	00.11	00.1
23-Jul 1-hour TSP - 3 times	24-Jul		26-Jul 1-hour TSP - 3 times	27-Jul	28-Jul	29-Ju 1-hour TSP - 3 times
24-hour TSP - 3 times			24-hour TSP - 3 times			24-hour TSP - 3 times
Impact AQM			Impact AQM			Impact AQM
30-Jul	31-Jul					
					1	1

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

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Aug	2-Aug	3-Aug	4-Aug	5-Au
		1-hour TSP - 3 times			1-hour TSP - 3 times	
		24-hour TSP - 1 time			24-hour TSP - 1 time	
		Impact AQM			Impact AQM	
6-Aug		8-Aug	9-Aug		11-Aug	12-Au
	1-hour TSP - 3 times			1-hour TSP - 3 times		
	24-hour TSP - 1 time			24-hour TSP - 1 time		
	Impact AQM			Impact AQM		
13-Aug	14-Aug	15-Aug		17-Aug	18-Aug	19-Au
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
20-Aug	21-Aug	Ŭ	23-Aug	24-Aug	0	26-Au
		1-hour TSP - 3 times			1-hour TSP - 3 times	
		24-hour TSP - 1 time			24-hour TSP - 1 time	
		Impact AQM			Impact AQM	
27-Aug	28-Aug		30-Aug	31-Aug		
	1-hour TSP - 3 times	-		1-hour TSP - 3 times		
	24-hour TSP - 1 time			24-hour TSP - 1 time		
	Impact AQM			Impact AQM		

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 - July 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Jul
2-Jul	3-Jul	4-Jul	5-Jul	6-Jul	7-Jul	8-Jul
9-Jul	10-Jul	11-Jul	12-Jul	13-Jul	14-Jul	15-Jul
16-Jul	17-Jul	18-Jul	19-Jul		21-Jul	22-Jul
				Impact Dolphin Monitoring		
23-Jul	24-Jul	25-Jul	26-Jul	27-Jul	28-Jul	29-Jul
	Impact Dolphin Monitoring			Impact Dolphin	Impact Dolphin Monitoring	
30-Jul	31-Jul					

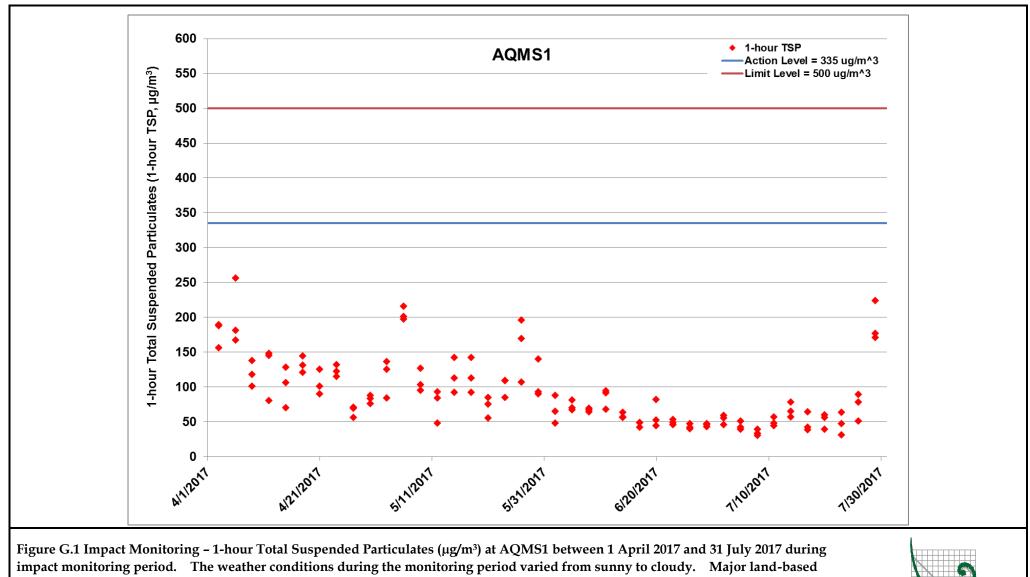
## HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Tentative Impact Dolphin Monitoring Survey Monitoring Schedule - August 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Aug	2-Aug	3-Aug		5-Aug
6-Aug	7-Aug	8-Aug	9-Aug	10-Aug	11-Aug	12-Aug
	Impact Dolphin Monitoring					
13-Aug	14-Aug	15-Aug	16-Aug	17-Aug	18-Aug	19-Aug
			Impact Dolphin Monitoring			
20-Aug	21-Aug	22-Aug	23-Aug	24-Aug	25-Aug	26-Aug
	Impact Dolphin Monitoring				Impact Dolphin Monitoring	
27-Aug	28-Aug	29-Aug	30-Aug	31-Aug		

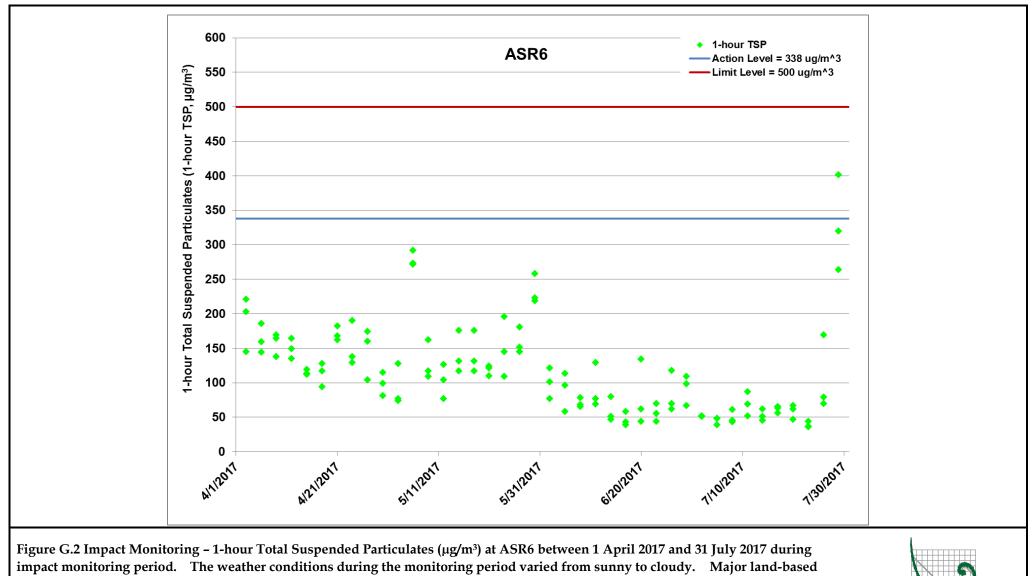
The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

Appendix G

Impact Air Quality Monitoring Results



ΕK





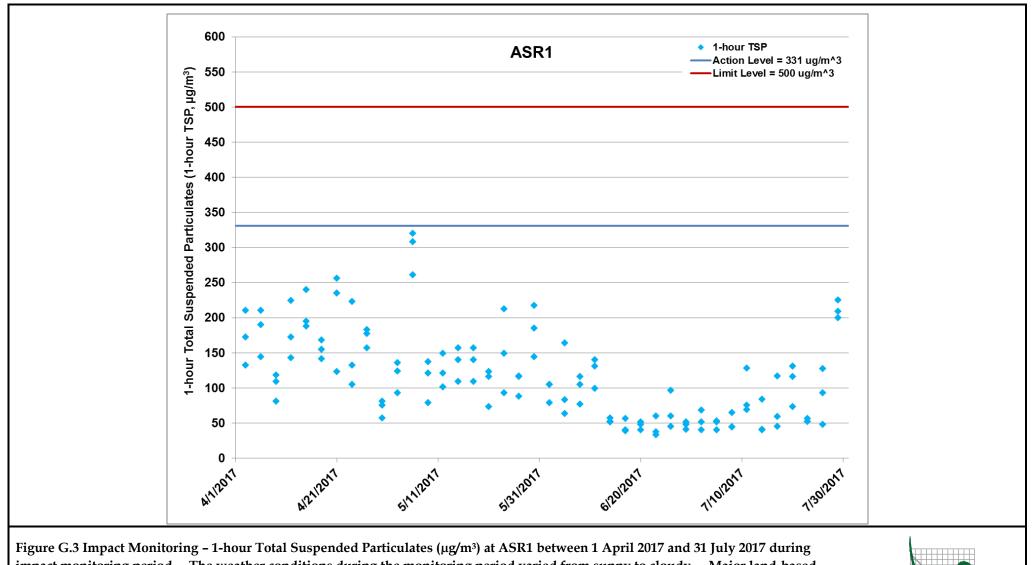
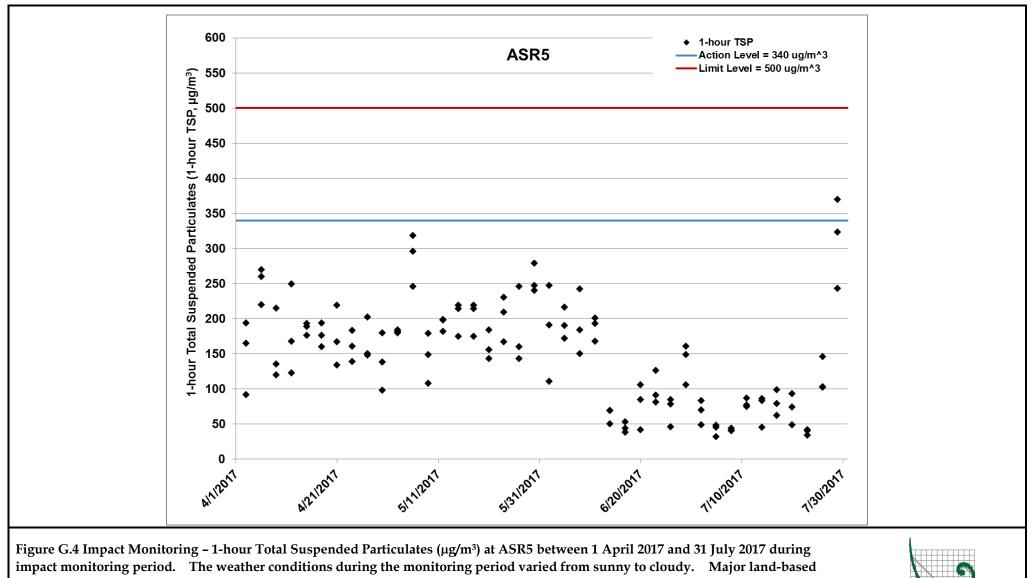
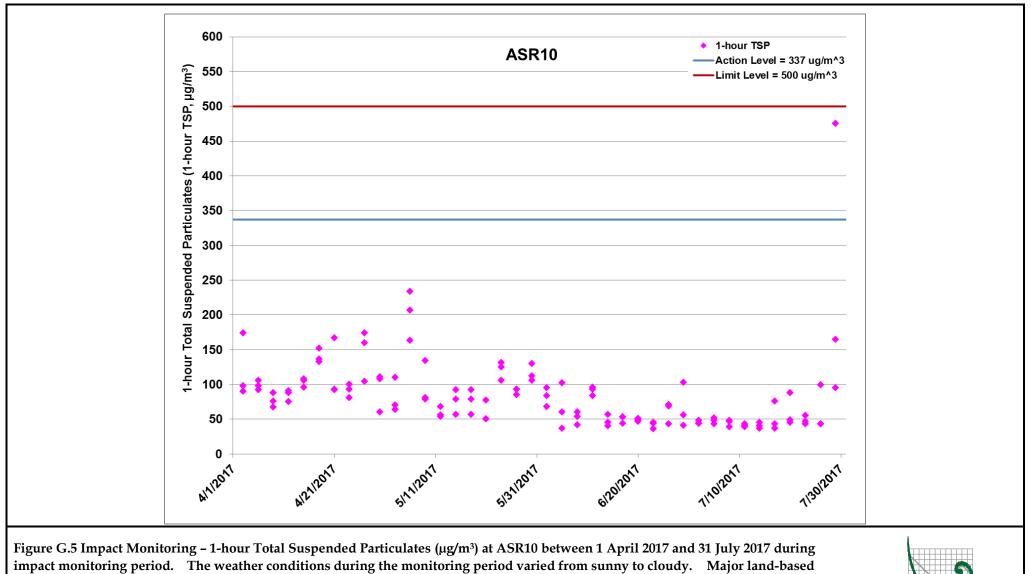


Figure G.3 Impact Monitoring – 1-hour Total Suspended Particulates ( $\mu$ g/m<sup>3</sup>) at ASR1 between 1 April 2017 and 31 July 2017 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Box Culvert Extension, Construction of North Ventilation Building and Bulk Excavation (1/4/2017 – 31/7/2017) *Ref:* 0212330\_Impact AQM graphs\_July 2017\_REV a.xlsx



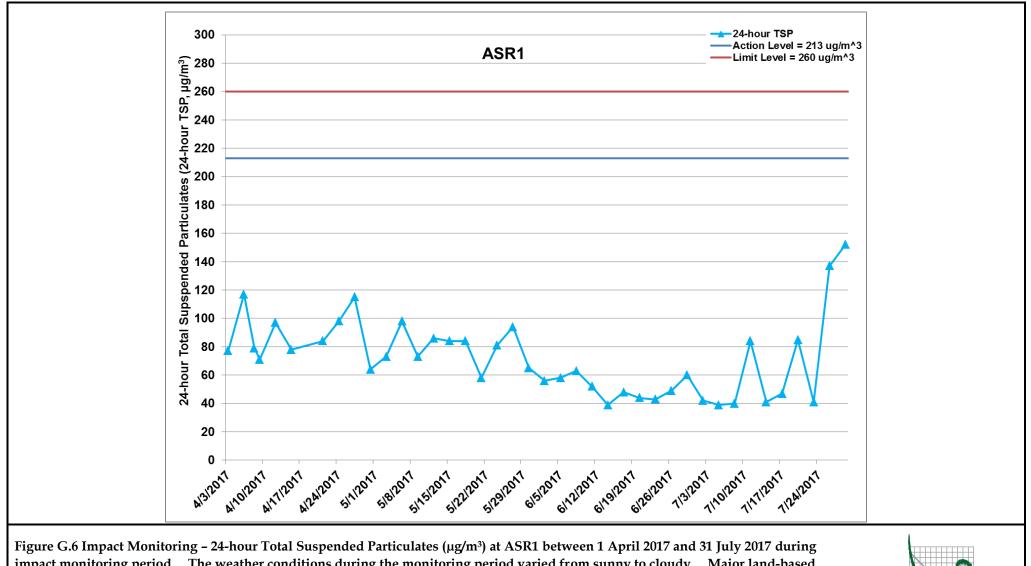


ERN

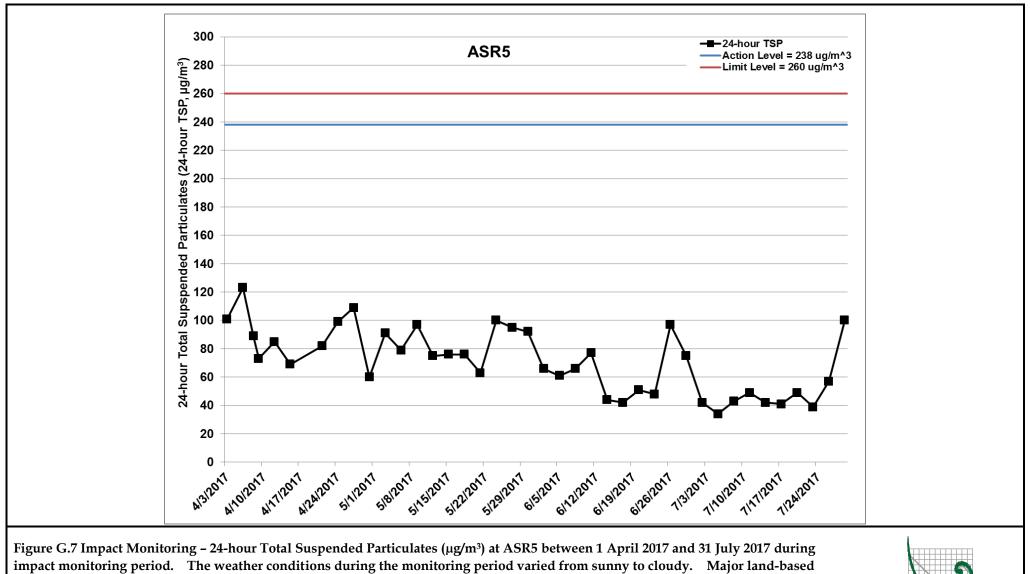


construction activities included: Box Culvert Extension, Construction of North Ventilation Building and Bulk Excavation (1/4/2017 – 31/7/2017) Ref: 0212330\_Impact AQM graphs\_July 2017\_REV a.xlsx

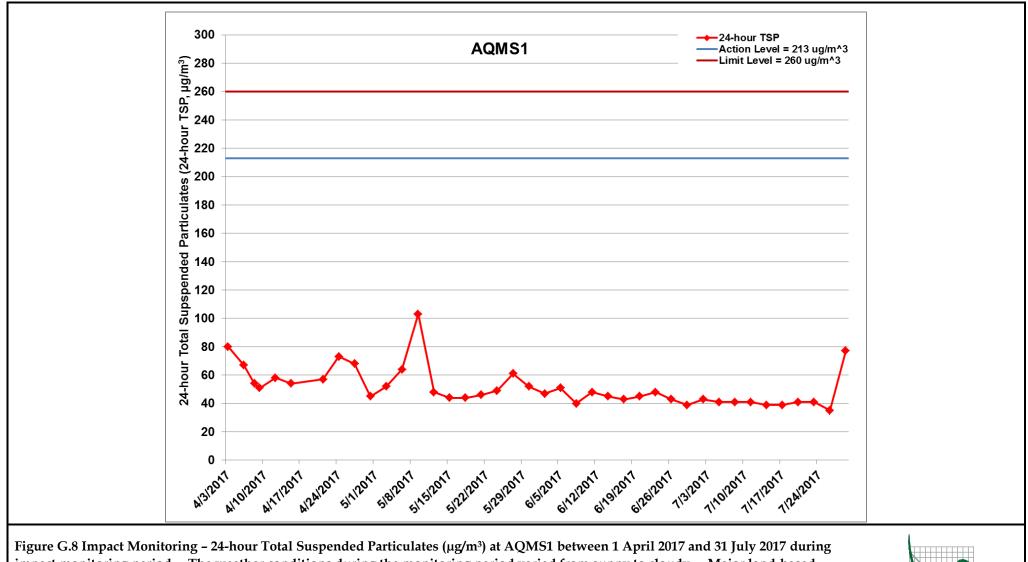




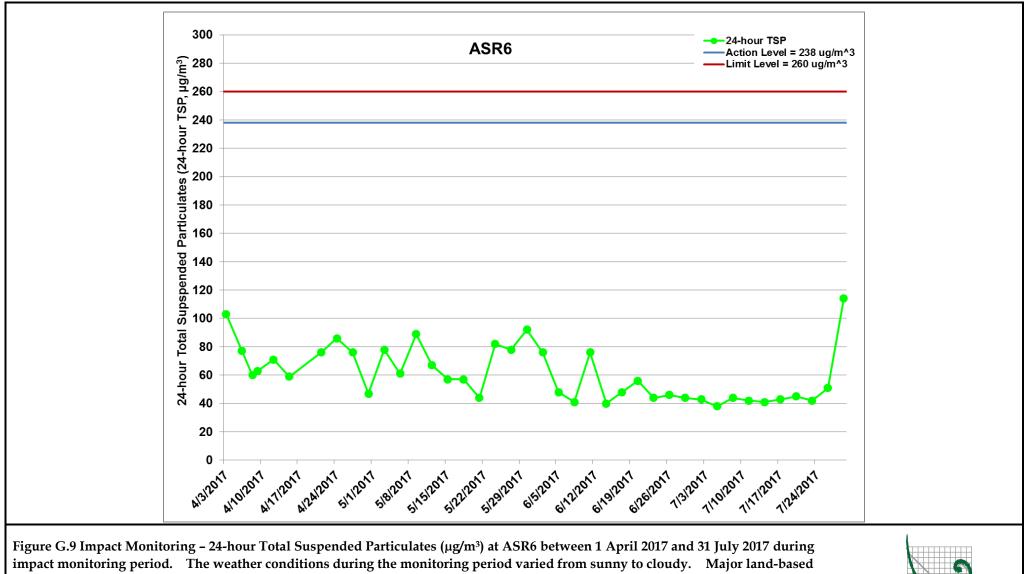






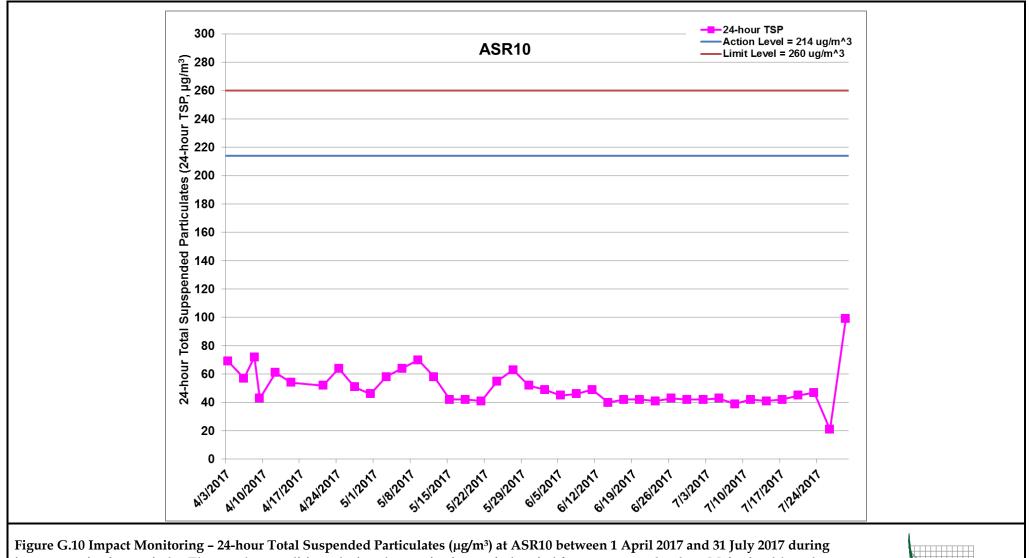






construction activities included: Box Culvert Extension, Construction of North Ventilation Building and Bulk Excavation (1/4/2017 – 31/7/2017) Ref: 0212330\_Impact AQM graphs\_July 2017\_REV a.xlsx







Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-07-02	AQMS1	Sunny	09:44	1-hour TSP	55	ug/m3
TMCLKL	HY/2012/08	2017-07-02	AQMS1	Sunny	10:46	1-hour TSP	59	ug/m3
TMCLKL	HY/2012/08	2017-07-02	AQMS1	Sunny	11:48	1-hour TSP	46	ug/m3
TMCLKL	HY/2012/08	2017-07-02	ASR1	Sunny	09:33	1-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2017-07-02	ASR1	Sunny	10:35	1-hour TSP	40	ug/m3
TMCLKL	HY/2012/08	2017-07-02	ASR1	Sunny	11:37	1-hour TSP	51	ug/m3
TMCLKL	HY/2012/08	2017-07-02	ASR10	Sunny	09:02	1-hour TSP	44	ug/m3
TMCLKL	HY/2012/08	2017-07-02	ASR10	Sunny	10:04	1-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2017-07-02	ASR10	Sunny	11:06	1-hour TSP	44	ug/m3
TMCLKL	HY/2012/08	2017-07-02	ASR5	Sunny	09:23	1-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2017-07-02	ASR5	Sunny	10:25	1-hour TSP	49	ug/m3
TMCLKL	HY/2012/08	2017-07-02	ASR5	Sunny	11:27	1-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2017-07-02	ASR6	Sunny	09:13	1-hour TSP	51	ug/m3
TMCLKL	HY/2012/08	2017-07-02	ASR6	Sunny	10:15	1-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2017-07-02	ASR6	Sunny	11:17	1-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2017-07-05	AQMS1	Cloudy	14:32	1-hour TSP	51	ug/m3
TMCLKL	HY/2012/08	2017-07-05	AQMS1	Cloudy	15:34	1-hour TSP	42	ug/m3
TMCLKL	HY/2012/08	2017-07-05	AQMS1	Cloudy	16:36	1-hour TSP	39	ug/m3
TMCLKL	HY/2012/08	2017-07-05	ASR1	Cloudy	14:22	1-hour TSP	40	ug/m3
TMCLKL	HY/2012/08	2017-07-05	ASR1	Cloudy	15:24	1-hour TSP	53	ug/m3
TMCLKL	HY/2012/08	2017-07-05	ASR1	Cloudy	16:26	1-hour TSP	51	ug/m3
TMCLKL	HY/2012/08	2017-07-05	ASR10	Cloudy	13:50	1-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2017-07-05	ASR10	Cloudy	14:52	1-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2017-07-05	ASR10	Cloudy	15:54	1-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2017-07-05	ASR5	Cloudy	14:11	1-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2017-07-05	ASR5	Cloudy	15:13	1-hour TSP	45	ug/m3
TMCLKL	HY/2012/08	2017-07-05	ASR5	Cloudy	16:15	1-hour TSP	32	ug/m3
TMCLKL	HY/2012/08	2017-07-05	ASR6	Cloudy	14:00	1-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2017-07-05	ASR6	Cloudy	15:02	1-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2017-07-05	ASR6	Cloudy	16:04	1-hour TSP	39	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-07-08	AQMS1	Cloudy	09:28	1-hour TSP	33	ug/m3
TMCLKL	HY/2012/08	2017-07-08	AQMS1	Cloudy	10:30	1-hour TSP	30	ug/m3
TMCLKL	HY/2012/08	2017-07-08	AQMS1	Cloudy	11:32	1-hour TSP	39	ug/m3
TMCLKL	HY/2012/08	2017-07-08	ASR1	Cloudy	09:17	1-hour TSP	44	ug/m3
TMCLKL	HY/2012/08	2017-07-08	ASR1	Cloudy	10:19	1-hour TSP	65	ug/m3
TMCLKL	HY/2012/08	2017-07-08	ASR1	Cloudy	11:21	1-hour TSP	44	ug/m3
TMCLKL	HY/2012/08	2017-07-08	ASR10	Cloudy	08:45	1-hour TSP	39	ug/m3
TMCLKL	HY/2012/08	2017-07-08	ASR10	Cloudy	09:47	1-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	2017-07-08	ASR10	Cloudy	10:49	1-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2017-07-08	ASR5	Cloudy	09:06	1-hour TSP	40	ug/m3
TMCLKL	HY/2012/08	2017-07-08	ASR5	Cloudy	10:08	1-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2017-07-08	ASR5	Cloudy	11:00	1-hour TSP	44	ug/m3
TMCLKL	HY/2012/08	2017-07-08	ASR6	Cloudy	08:55	1-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2017-07-08	ASR6	Cloudy	09:57	1-hour TSP	45	ug/m3
TMCLKL	HY/2012/08	2017-07-08	ASR6	Cloudy	10:59	1-hour TSP	61	ug/m3
TMCLKL	HY/2012/08	2017-07-11	AQMS1	Sunny	13:24	1-hour TSP	57	ug/m3
TMCLKL	HY/2012/08	2017-07-11	AQMS1	Sunny	14:26	1-hour TSP	44	ug/m3
TMCLKL	HY/2012/08	2017-07-11	AQMS1	Sunny	15:28	1-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2017-07-11	ASR1	Sunny	13:13	1-hour TSP	128	ug/m3
TMCLKL	HY/2012/08	2017-07-11	ASR1	Sunny	14:15	1-hour TSP	75	ug/m3
TMCLKL	HY/2012/08	2017-07-11	ASR1	Sunny	15:17	1-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2017-07-11	ASR10	Sunny	12:41	1-hour TSP	41	ug/m3
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TMCLKL	HY/2012/08	2017-07-11	ASR10	Sunny	14:45	1-hour TSP	39	ug/m3
TMCLKL	HY/2012/08	2017-07-11	ASR5	Sunny	13:03	1-hour TSP	77	ug/m3
TMCLKL	HY/2012/08	2017-07-11	ASR5	Sunny	14:05	1-hour TSP	75	ug/m3
TMCLKL	HY/2012/08	2017-07-11	ASR5	Sunny	15:07	1-hour TSP	87	ug/m3
TMCLKL	HY/2012/08	2017-07-11	ASR6	Sunny	12:52	1-hour TSP	87	ug/m3
TMCLKL	HY/2012/08	2017-07-11	ASR6	Sunny	13:54	1-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2017-07-11	ASR6	Sunny	14:56	1-hour TSP	69	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-07-14	AQMS1	Sunny	10:13	1-hour TSP	78	ug/m3
TMCLKL	HY/2012/08	2017-07-14	AQMS1	Sunny	11:15	1-hour TSP	57	ug/m3
TMCLKL	HY/2012/08	2017-07-14	AQMS1	Sunny	12:17	1-hour TSP	65	ug/m3
TMCLKL	HY/2012/08	2017-07-14	ASR1	Sunny	10:02	1-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	2017-07-14	ASR1	Sunny	11:04	1-hour TSP	40	ug/m3
TMCLKL	HY/2012/08	2017-07-14	ASR1	Sunny	12:06	1-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2017-07-14	ASR10	Sunny	09:30	1-hour TSP	40	ug/m3
TMCLKL	HY/2012/08	2017-07-14	ASR10	Sunny	10:32	1-hour TSP	45	ug/m3
TMCLKL	HY/2012/08	2017-07-14	ASR10	Sunny	11:34	1-hour TSP	37	ug/m3
TMCLKL	HY/2012/08	2017-07-14	ASR5	Sunny	09:51	1-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2017-07-14	ASR5	Sunny	10:53	1-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	2017-07-14	ASR5	Sunny	11:55	1-hour TSP	45	ug/m3
TMCLKL	HY/2012/08	2017-07-14	ASR6	Sunny	09:40	1-hour TSP	51	ug/m3
TMCLKL	HY/2012/08	2017-07-14	ASR6	Sunny	10:42	1-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2017-07-14	ASR6	Sunny	11:44	1-hour TSP	45	ug/m3
TMCLKL	HY/2012/08	2017-07-17	AQMS1	Rainy	13:50	1-hour TSP	64	ug/m3
TMCLKL	HY/2012/08	2017-07-17	AQMS1	Rainy	14:52	1-hour TSP	38	ug/m3
TMCLKL	HY/2012/08	2017-07-17	AQMS1	Rainy	15:54	1-hour TSP	42	ug/m3
TMCLKL	HY/2012/08	2017-07-17	ASR1	Rainy	13:40	1-hour TSP	117	ug/m3
TMCLKL	HY/2012/08	2017-07-17	ASR1	Rainy	14:42	1-hour TSP	45	ug/m3
TMCLKL	HY/2012/08	2017-07-17	ASR1	Rainy	15:44	1-hour TSP	59	ug/m3
TMCLKL	HY/2012/08	2017-07-17	ASR10	Rainy	13:08	1-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2017-07-17	ASR10	Rainy	14:10	1-hour TSP	37	ug/m3
TMCLKL	HY/2012/08	2017-07-17	ASR10	Rainy	15:12	1-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2017-07-17	ASR5	Rainy	13:30	1-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	2017-07-17	ASR5	Rainy	14:32	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2017-07-17	ASR5	Rainy	15:34	1-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2017-07-17	ASR6	Rainy	13:19	1-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2017-07-17	ASR6	Rainy	14:21	1-hour TSP	65	ug/m3
TMCLKL	HY/2012/08	2017-07-17	ASR6	Rainy	15:23	1-hour TSP	63	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-07-20	AQMS1	Sunny	13:55	1-hour TSP	60	ug/m3
TMCLKL	HY/2012/08	2017-07-20	AQMS1	Sunny	14:57	1-hour TSP	39	ug/m3
TMCLKL	HY/2012/08	2017-07-20	AQMS1	Sunny	15:59	1-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2017-07-20	ASR1	Sunny	13:45	1-hour TSP	116	ug/m3
TMCLKL	HY/2012/08	2017-07-20	ASR1	Sunny	14:47	1-hour TSP	131	ug/m3
TMCLKL	HY/2012/08	2017-07-20	ASR1	Sunny	15:49	1-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2017-07-20	ASR10	Sunny	13:13	1-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2017-07-20	ASR10	Sunny	14:15	1-hour TSP	45	ug/m3
TMCLKL	HY/2012/08	2017-07-20	ASR10	Sunny	15:17	1-hour TSP	49	ug/m3
TMCLKL	HY/2012/08	2017-07-20	ASR5	Sunny	13:34	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2017-07-20	ASR5	Sunny	14:36	1-hour TSP	49	ug/m3
TMCLKL	HY/2012/08	2017-07-20	ASR5	Sunny	15:38	1-hour TSP	74	ug/m3
TMCLKL	HY/2012/08	2017-07-20	ASR6	Sunny	13:24	1-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	2017-07-20	ASR6	Sunny	14:26	1-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2017-07-20	ASR6	Sunny	15:28	1-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	2017-07-23	AQMS1	Cloudy	15:05	1-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	2017-07-23	AQMS1	Cloudy	16:07	1-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2017-07-23	AQMS1	Cloudy	17:09	1-hour TSP	31	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR1	Cloudy	14:54	1-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR1	Cloudy	15:56	1-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR1	Cloudy	16:58	1-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR10	Cloudy	14:22	1-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR10	Cloudy	15:24	1-hour TSP	55	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR10	Cloudy	16:26	1-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR5	Cloudy	14:44	1-hour TSP	34	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR5	Cloudy	15:46	1-hour TSP	42	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR5	Cloudy	16:48	1-hour TSP	40	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR6	Cloudy	14:33	1-hour TSP	44	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR6	Cloudy	15:35	1-hour TSP	37	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR6	Cloudy	16:37	1-hour TSP	36	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-07-26	AQMS1	Sunny	13:50	1-hour TSP	51	ug/m3
TMCLKL	HY/2012/08	2017-07-26	AQMS1	Sunny	14:52	1-hour TSP	89	ug/m3
TMCLKL	HY/2012/08	2017-07-26	AQMS1	Sunny	15:54	1-hour TSP	78	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR1	Sunny	13:39	1-hour TSP	127	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR1	Sunny	14:41	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR1	Sunny	15:43	1-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR10	Sunny	13:07	1-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR10	Sunny	14:09	1-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR10	Sunny	15:11	1-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR5	Sunny	13:29	1-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR5	Sunny	14:31	1-hour TSP	146	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR5	Sunny	15:33	1-hour TSP	102	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR6	Sunny	13:18	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR6	Sunny	14:20	1-hour TSP	169	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR6	Sunny	15:22	1-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2017-07-29	AQMS1	Sunny	14:02	1-hour TSP	177	ug/m3
TMCLKL	HY/2012/08	2017-07-29	AQMS1	Sunny	15:04	1-hour TSP	171	ug/m3
TMCLKL	HY/2012/08	2017-07-29	AQMS1	Sunny	16:06	1-hour TSP	224	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR1	Sunny	13:52	1-hour TSP	225	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR1	Sunny	14:54	1-hour TSP	200	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR1	Sunny	15:56	1-hour TSP	209	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR10	Sunny	13:20	1-hour TSP	165	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR10	Sunny	14:22	1-hour TSP	95	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR10	Sunny	15:24	1-hour TSP	475	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR5	Sunny	13:41	1-hour TSP	243	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR5	Sunny	14:43	1-hour TSP	323	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR5	Sunny	15:45	1-hour TSP	370	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR6	Sunny	13:30	1-hour TSP	264	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR6	Sunny	14:32	1-hour TSP	320	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR6	Sunny	15:34	1-hour TSP	401	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-07-02	AQMS1	Sunny	12:50	24-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2017-07-02	ASR1	Sunny	12:39	24-hour TSP	42	ug/m3
TMCLKL	HY/2012/08	2017-07-02	ASR10	Sunny	12:08	24-hour TSP	42	ug/m3
TMCLKL	HY/2012/08	2017-07-02	ASR5	Sunny	12:29	24-hour TSP	42	ug/m3
TMCLKL	HY/2012/08	2017-07-02	ASR6	Sunny	12:19	24-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2017-07-05	AQMS1	Cloudy	17:38	24-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2017-07-05	ASR1	Cloudy	17:28	24-hour TSP	39	ug/m3
TMCLKL	HY/2012/08	2017-07-05	ASR10	Cloudy	16:56	24-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2017-07-05	ASR5	Cloudy	17:17	24-hour TSP	34	ug/m3
TMCLKL	HY/2012/08	2017-07-05	ASR6	Cloudy	17:06	24-hour TSP	38	ug/m3
TMCLKL	HY/2012/08	2017-07-08	AQMS1	Cloudy	12:34	24-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2017-07-08	ASR1	Cloudy	12:23	24-hour TSP	40	ug/m3
TMCLKL	HY/2012/08	2017-07-08	ASR10	Cloudy	11:51	24-hour TSP	39	ug/m3
TMCLKL	HY/2012/08	2017-07-08	ASR5	Cloudy	12:12	24-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2017-07-08	ASR6	Cloudy	12:01	24-hour TSP	44	ug/m3
TMCLKL	HY/2012/08	2017-07-11	AQMS1	Sunny	16:30	24-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2017-07-11	ASR1	Sunny	16:19	24-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	2017-07-11	ASR10	Sunny	15:47	24-hour TSP	42	ug/m3
TMCLKL	HY/2012/08	2017-07-11	ASR5	Sunny	16:09	24-hour TSP	49	ug/m3
TMCLKL	HY/2012/08	2017-07-11	ASR6	Sunny	15:58	24-hour TSP	42	ug/m3
TMCLKL	HY/2012/08	2017-07-14	AQMS1	Sunny	13:19	24-hour TSP	39	ug/m3
TMCLKL	HY/2012/08	2017-07-14	ASR1	Sunny	13:08	24-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2017-07-14	ASR10	Sunny	12:36	24-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2017-07-14	ASR5	Sunny	12:57	24-hour TSP	42	ug/m3
TMCLKL	HY/2012/08	2017-07-14	ASR6	Sunny	12:46	24-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2017-07-17	AQMS1	Rainy	16:56	24-hour TSP	39	ug/m3
TMCLKL	HY/2012/08	2017-07-17	ASR1	Rainy	16:46	24-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	2017-07-17	ASR10	Rainy	16:14	24-hour TSP	42	ug/m3
TMCLKL	HY/2012/08	2017-07-17	ASR5	Rainy	16:36	24-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2017-07-17	ASR6	Rainy	16:25	24-hour TSP	43	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-07-20	AQMS1	Sunny	17:01	24-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2017-07-20	ASR1	Sunny	16:51	24-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2017-07-20	ASR10	Sunny	16:19	24-hour TSP	45	ug/m3
TMCLKL	HY/2012/08	2017-07-20	ASR5	Sunny	16:46	24-hour TSP	49	ug/m3
TMCLKL	HY/2012/08	2017-07-20	ASR6	Sunny	16:30	24-hour TSP	45	ug/m3
TMCLKL	HY/2012/08	2017-07-23	AQMS1	Cloudy	18:11	24-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR1	Cloudy	18:00	24-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR10	Cloudy	17:28	24-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR5	Cloudy	17:50	24-hour TSP	39	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR6	Cloudy	17:39	24-hour TSP	42	ug/m3
TMCLKL	HY/2012/08	2017-07-26	AQMS1	Sunny	16:56	24-hour TSP	35	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR1	Sunny	16:45	24-hour TSP	137	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR10	Sunny	16:13	24-hour TSP	21	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR5	Sunny	16:35	24-hour TSP	57	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR6	Sunny	16:24	24-hour TSP	51	ug/m3
TMCLKL	HY/2012/08	2017-07-29	AQMS1	Sunny	17:08	24-hour TSP	77	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR1	Sunny	16:58	24-hour TSP	152	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR10	Sunny	16:26	24-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR5	Sunny	16:47	24-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR6	Sunny	16:36	24-hour TSP	114	ug/m3

Appendix H

# Meteorological Data

Meteorological Data for Impact Monitoring in the reporting period						
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)			
17/07/02	0:00	1.8	130			
17/07/02	1:00	0.9	125			
17/07/02	2:00	1.3	135			
17/07/02	3:00	0.9	122			
17/07/02	4:00	0.9	74			
17/07/02	5:00	0.4	345			
17/07/02	6:00	0.4	12			
17/07/02	7:00	0.4	322			
17/07/02	8:00	0.4	256			
17/07/02	9:00	0.9	170			
17/07/02	10:00	1.8	181			
17/07/02	11:00	1.8	176			
17/07/02	12:00	2.2	138			
17/07/02	13:00	0.9	200			
17/07/02	14:00	1.8	249			
17/07/02	15:00	0.9	146			
17/07/02	16:00	0.9	175			
17/07/02	17:00	0.9	182			
17/07/02	18:00	0.9	141			
17/07/02	19:00	0.4	289			
17/07/02	20:00	0.9	284			
17/07/02	21:00	0.4	293			
17/07/02	22:00	0.4	288			
17/07/02	23:00	1.3	166			
17/07/03	0:00	2.2	140			
17/07/03	1:00	3.1	137			
17/07/03	2:00	2.2	129			
17/07/03	3:00	1.8	182			
17/07/03	4:00	2.2	178			
17/07/03	5:00	2.7	144			
17/07/03	6:00	2.2	17			
17/07/03	7:00	1.3	223			
17/07/03	8:00	0.4	230			
17/07/03	9:00	2.7	311			
17/07/03	10:00	1.3	357			
17/07/03	11:00	2.2	311			
17/07/03	12:00	0.4	309			
17/07/03	13:00	0.9	349			
17/07/03	14:00	0.4	305			
17/07/03	15:00	0	-			
17/07/03	16:00	0.9	192			
17/07/03	17:00	1.8	195			
17/07/03	18:00	1.8	200			
17/07/03	19:00	0.9	95			
17/07/03	20:00	0.9	74			
17/07/03	21:00	1.3	81			
17/07/03	22:00	1.8	95			
17/07/03	23:00	2.2	90			
17/07/05	0:00	0.4	10			
17/07/05	1:00	0.9	105			
17/07/05	2:00	1.3	95			
17/07/05	3:00	1.3	76			
17/07/05	4:00	1.3	81			
17/07/05	5:00	0.9	77			
17/07/05	6:00	1.3	69			

Meteorological Data for Impact Monitoring in the reporting period						
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)			
17/07/05	7:00	0.9	80			
17/07/05	8:00	1.3	100			
17/07/05	9:00	1.8	124			
17/07/05	10:00	2.7	112			
17/07/05	11:00	3.6	85			
17/07/05	12:00	4.5	93			
17/07/05	13:00	4.9	91			
17/07/05	14:00	5.4	122			
17/07/05	15:00	4.9	84			
17/07/05	16:00	4.9	85			
17/07/05	17:00	4.9	111			
17/07/05	18:00	3.1	70			
17/07/05	19:00	3.1	94			
17/07/05	20:00	3.6	97			
17/07/05	21:00	3.1	89			
17/07/05	22:00	2.7	90			
17/07/05	23:00	4	93			
17/07/06	0:00	2.7	92			
17/07/06	1:00	2.7	95			
17/07/06	2:00	4	88			
17/07/06	3:00	4.5	79			
17/07/06	4:00	3.1	101			
17/07/06	5:00	2.2	64			
17/07/06	6:00	1.8	96			
17/07/06	7:00	1.3	74			
17/07/06	8:00	2.7	93			
17/07/06	9:00	2.2	95			
17/07/06	10:00	2.2	91			
17/07/06	11:00	1.3	64			
17/07/06	12:00	2.2	93			
17/07/06	13:00	1.8	84			
17/07/06	14:00	2.7	93			
17/07/06	15:00	3.1	100			
17/07/06	16:00	1.8	91			
17/07/06	17:00	1.3	118			
17/07/06	18:00	2.2	71			
17/07/06	19:00	1.8	95			
17/07/06	20:00	3.1	92			
17/07/06	20:00	3.6	92			
17/07/06	21:00	4	92			
17/07/06	22:00	4	92			
17/07/08	0:00	0.9	93			
17/07/08	1:00	0.4	68			
17/07/08	2:00	1.3	92			
17/07/08	3:00	0.4	22			
17/07/08	4:00	0.4	349			
17/07/08	5:00	0.4	351			
17/07/08	6:00	2.7	122			
	6:00 7:00	2.7	88			
17/07/08		1.8				
17/07/08	8:00		93			
17/07/08	9:00	0.9	14			
17/07/08	10:00	0.4	191			
17/07/08	11:00	0.4	90			
17/07/08	12:00	1.3	75			
17/07/08	13:00	1.3	80			

Meteorological Data for Impact Monitoring in the reporting period						
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)			
17/07/08	14:00	1.3	71			
17/07/08	15:00	2.7	93			
17/07/08	16:00	1.8	88			
17/07/08	17:00	0.9	84			
17/07/08	18:00	2.2	86			
17/07/08	19:00	0.9	92			
17/07/08	20:00	0.9	355			
17/07/08	21:00	0.4	68			
17/07/08	22:00	0.9	80			
17/07/08	23:00	1.8	77			
17/07/09	0:00	2.2	94			
17/07/09	1:00	2.7	100			
17/07/09	2:00	2.7	135			
17/07/09	3:00	1.8	141			
17/07/09	4:00	1.8	136			
17/07/09	5:00	0.4	170			
17/07/09	6:00	0.9	142			
17/07/09	7:00	1.8	133			
17/07/09	8:00	1.8	131			
17/07/09	9:00	1.8	129			
17/07/09	10:00	1.8	169			
17/07/09	11:00	2.2	171			
17/07/09	12:00	1.8	134			
17/07/09	13:00	1.3	226			
17/07/09	14:00	1.3	197			
17/07/09	15:00	2.7	230			
17/07/09	16:00	3.6	136			
17/07/09	17:00	2.2	145			
17/07/09	18:00	1.8	140			
17/07/09	19:00	1.3	132			
17/07/09	20:00	0.9	171			
17/07/09	21:00	0.4	142			
17/07/09	22:00	1.8	144			
17/07/09	23:00	1.3	116			
17/07/11	0:00	1.8	93			
17/07/11	1:00	1.3	91			
17/07/11	2:00	0.9	88			
17/07/11	3:00	0.9	96			
17/07/11	4:00	1.3	97			
17/07/11	5:00	1.3	100			
17/07/11	6:00	0.9	71			
17/07/11	7:00	0.9	75			
17/07/11	8:00	1.3	94			
17/07/11	9:00	2.7	87			
17/07/11	10:00	2.7	126			
17/07/11	11:00	2.7	119			
17/07/11	12:00	2.7	104			
17/07/11	13:00	2.7	115			
17/07/11	14:00	3.6	113			
17/07/11	15:00	2.7	120			
17/07/11	16:00	3.6	134			
17/07/11	17:00	4.5	148			
17/07/11	18:00	4	132			
17/07/11	19:00	3.1	141			
17/07/11	20:00	2.2	117			

Meteorological Data for Impact Monitoring in the reporting period						
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)			
17/07/11	21:00	2.2	95			
17/07/11	22:00	1.8	88			
17/07/11	23:00	0.9	86			
17/07/12	0:00	0.9	94			
17/07/12	1:00	1.3	65			
17/07/12	2:00	1.3	68			
17/07/12	3:00	0.9	66			
17/07/12	4:00	0.4	69			
17/07/12	5:00	0	-			
17/07/12	6:00	0	-			
17/07/12	7:00	0	-			
17/07/12	8:00	0	-			
17/07/12	9:00	0.9	92			
17/07/12	10:00	1.3	149			
17/07/12	11:00	2.2	133			
17/07/12	12:00	3.1	129			
17/07/12	13:00	3.1	134			
17/07/12	14:00	2.7	140			
17/07/12	15:00	3.1	116			
17/07/12	16:00	3.6	121			
17/07/12	17:00	3.6	135			
17/07/12	18:00	3.1	139			
17/07/12	19:00	2.2	95			
17/07/12	20:00	1.8	93			
17/07/12	21:00	1.8	88			
17/07/12	22:00	1.3	91			
17/07/12	23:00	0.9	74			
17/07/14	0:00	1.3	92			
17/07/14	1:00	0.9	101			
17/07/14	2:00	0.9	95			
17/07/14	3:00	1.3	89			
17/07/14	4:00	0.9	65			
17/07/14	5:00	0.4	69			
17/07/14	6:00	0.9	66			
17/07/14	7:00	1.3	70			
17/07/14	8:00	1.8	92			
17/07/14	9:00	2.7	88			
17/07/14	10:00	3.1	111			
17/07/14	11:00	3.1	117			
17/07/14	12:00	2.2	140			
17/07/14	13:00	3.6	136			
17/07/14	14:00	4	95			
17/07/14	15:00	4.5	88			
17/07/14	16:00	3.6	93			
17/07/14	17:00	4.9	94			
17/07/14	18:00	4.5	92			
17/07/14	19:00	4	99			
17/07/14	20:00	4	102			
17/07/14	21:00	4	89			
17/07/14	21:00	3.1	100			
17/07/14	23:00	2.7	94			
17/07/15	0:00	2.7	96			
17/07/15	1:00	2.2	97			
17/07/15	2:00	2.2	90			
17/07/15	3:00	0.9	312			

Meteorological Data for Impact Monitoring in the reporting period						
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)			
17/07/15	4:00	0	-			
17/07/15	5:00	0.4	95			
17/07/15	6:00	0.9	84			
17/07/15	7:00	0.9	103			
17/07/15	8:00	2.2	94			
17/07/15	9:00	2.2	91			
17/07/15	10:00	3.1	117			
17/07/15	11:00	4	120			
17/07/15	12:00	5.4	116			
17/07/15	13:00	4.5	128			
17/07/15	14:00	5.8	114			
17/07/15	15:00	4.9	93			
17/07/15	16:00	4	95			
17/07/15	17:00	4.5	112			
17/07/15	18:00	4.5	94			
17/07/15	19:00	5.4	91			
17/07/15	20:00	5.4 4	93			
17/07/15	20:00	2.7	58			
17/07/15	22:00	1.8	92			
17/07/15	23:00	3.6	94			
17/07/17	0:00	2.2	61			
17/07/17	1:00	1.8	92			
17/07/17	2:00	1.8	58			
17/07/17	3:00	1.3	56			
17/07/17 17/07/17	4:00 5:00	0.9 0.9	93			
	6:00	0.9				
17/07/17 17/07/17	7:00	0.9	13 16			
17/07/17	8:00	1.3	93			
17/07/17	9:00	0.9	84			
17/07/17	10:00	0.9	91			
17/07/17	11:00	0.9	87			
17/07/17	12:00	0.4	85			
17/07/17	13:00	0.9	89			
17/07/17	14:00	2.7	94			
17/07/17	15:00	3.1	96			
17/07/17	16:00	1.8	172			
17/07/17	17:00	4	151			
17/07/17	18:00	2.2	92			
17/07/17	19:00	3.1	94			
17/07/17	20:00	4	95			
17/07/17	21:00	4.5	133			
17/07/17	22:00	4	141			
17/07/17	23:00	2.7	99			
17/07/18	0:00	1.3	41			
17/07/18	1:00	4.5	98			
17/07/18	2:00	3.1	89			
17/07/18	3:00	1.8	66			
17/07/18	4:00	2.2	92			
17/07/18	5:00	4	94			
17/07/18	6:00	3.1	96			
17/07/18	7:00	2.7	59			
17/07/18	8:00	3.6	97			
17/07/18	9:00	1.8	94			
17/07/18	10:00	1.8	91			
17/07/18	11:00	1.3	55			

Meteorological Data for Impact Monitoring in the reporting period				
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)	
17/07/18	12:00	2.2	103	
17/07/18	13:00	1.3	104	
17/07/18	14:00	0.9	82	
17/07/18	15:00	0.9	85	
17/07/18	16:00	0.9	201	
17/07/18	17:00	0.4	221	
17/07/18	18:00	0.9	16	
17/07/18	19:00	2.2	83	
17/07/18	20:00	4	95	
17/07/18	21:00	3.1	84	
17/07/18	22:00	0.9	19	
17/07/18	23:00	0.9	85	
17/07/20	0:00	0	-	
17/07/20	1:00	0	_	
17/07/20	2:00	0.9	96	
17/07/20	3:00	0.9	102	
17/07/20	4:00	1.3	88	
17/07/20	5:00	0.4	62	
17/07/20	6:00	0.4	93	
17/07/20	6:00 7:00	0.4	96	
17/07/20	8:00	1.3	91	
17/07/20	9:00	1.3	94	
17/07/20	10:00	2.7	92	
17/07/20	11:00	3.1	91	
17/07/20	12:00	3.6	124	
17/07/20	13:00	3.1	146	
17/07/20	14:00	3.6	150	
17/07/20	15:00	3.1	93	
17/07/20	16:00	1.8	87	
17/07/20	17:00	3.1	86	
17/07/20	18:00	3.6	88	
17/07/20	19:00	2.7	94	
17/07/20	20:00	2.2	98	
17/07/20	21:00	1.3	91	
17/07/20	22:00	2.2	93	
17/07/20	23:00	1.3	86	
17/07/21	0:00	1.3	100	
17/07/21	1:00	1.3	92	
17/07/21	2:00	0.4	97	
17/07/21	3:00	0.4	39	
17/07/21	4:00	0	-	
17/07/21	5:00	0.4	56	
17/07/21	6:00	0	-	
17/07/21	7:00	0	-	
17/07/21	8:00	0.9	71	
17/07/21	9:00	2.2	92	
17/07/21	10:00	3.6	104	
17/07/21	11:00	3.6	85	
17/07/21	12:00	3.6	92	
17/07/21	13:00	3.1	64	
17/07/21	14:00	4	58	
17/07/21	15:00	3.6	59	
17/07/21	16:00	4	84	
17/07/21	17:00	4	96	
17/07/21	18:00	4	115	
17/07/21	19:00	4.5	93	
	12.00			

Meteorological Data for Impact Monitoring in the reporting period				
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)	
17/07/21	21:00	2.7	86	
17/07/21	22:00	2.2	53	
17/07/21	23:00	2.7	94	
17/07/23	0:00	1.8	50	
17/07/23	1:00	0	-	
17/07/23	2:00	0	-	
17/07/23	3:00	0	-	
17/07/23	4:00	0	-	
17/07/23	5:00	0.9	316	
17/07/23	6:00	1.3	309	
17/07/23	7:00	1.8	324	
17/07/23	8:00	1.3	315	
17/07/23	9:00	1.3	306	
17/07/23	10:00	1.8	314	
17/07/23	11:00	1.8	274	
17/07/23	12:00	1.3	268	
17/07/23	13:00	1.3	185	
17/07/23	14:00	3.6	93	
17/07/23	14:00	3.6	87	
17/07/23	15:00	4	96	
17/07/23	17:00	4	88	
17/07/23	18:00	3.1	94	
17/07/23	19:00	1.8	97	
17/07/23	20:00	1.3	49	
17/07/23	21:00	1.3	13	
17/07/23	22:00	1.3	97	
17/07/23	23:00	0.4	85	
17/07/24	0:00	0.9	54	
17/07/24	1:00	0.4	46	
17/07/24	2:00	0.4	110	
17/07/24	3:00	0.4	58	
17/07/24	4:00	0.4	93	
17/07/24	5:00	0.4	62	
17/07/24	6:00	0.4	92	
17/07/24	7:00	0	-	
17/07/24	8:00	0.4	58	
17/07/24	9:00	0.9	114	
17/07/24	10:00	0.9	132	
17/07/24	11:00	1.8	169	
17/07/24	12:00	1.3	85	
17/07/24	13:00	1.3	135	
17/07/24	14:00	2.7	132	
17/07/24	15:00	2.7	140	
17/07/24	16:00	3.1	128	
17/07/24	17:00	2.7	115	
17/07/24	18:00	3.1	94	
17/07/24	19:00	2.2	92	
17/07/24	20:00	1.3	97	
17/07/24	21:00	1.3	82	
17/07/24	22:00	1.8	86	
17/07/24	23:00	1.8	87	
17/07/26	0:00	0.9	62	
	1:00	0.4	57	
17/07/26				
17/07/26	2:00	0.4	92	
17/07/26	3:00	0	-	
17/07/26	4:00	0.9	298	
17/07/26	5:00	0.4	305	

Meteorological Data for Impact Monitoring in the reporting period				
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)	
17/07/26	6:00	0.9	300	
17/07/26	7:00	0.4	351	
17/07/26	8:00	0	-	
17/07/26	9:00	1.3	140	
17/07/26	10:00	0.9	278	
17/07/26	11:00	1.3	228	
17/07/26	12:00	0.9	205	
17/07/26	13:00	0.9	197	
17/07/26	14:00	1.8	199	
17/07/26	15:00	1.8	226	
17/07/26	16:00	3.1	140	
17/07/26	17:00	3.1	135	
17/07/26	18:00	2.7	62	
17/07/26	19:00	2.2	94	
17/07/26	20:00	1.8	95	
17/07/26	21:00	0.4	66	
17/07/26	22:00	0.4	3	
17/07/26	23:00	0.4	92	
17/07/27	0:00	1.3	96	
17/07/27	1:00	1.3	91	
17/07/27	2:00	1.3	54	
17/07/27	3:00	0.9	59	
17/07/27	4:00	0.9	51	
17/07/27	5:00	0.9	346	
17/07/27	6:00	0.9	352	
17/07/27	7:00	0.9	339	
17/07/27	8:00	1.3	327	
17/07/27	9:00	1.8	16 347	
17/07/27	10:00	1.3		
17/07/27	11:00	1.3	349	
17/07/27	12:00	1.3	91	
17/07/27	13:00	1.8	52	
17/07/27	14:00	2.2	94	
17/07/27	15:00	3.1	137	
17/07/27	16:00	2.2	94	
17/07/27	17:00	3.1	96	
17/07/27	18:00	2.7	89	
17/07/27	19:00	2.7	87	
17/07/27	20:00	2.2	89	
17/07/27	21:00	2.7	95	
17/07/27	22:00	2.2	97	
17/07/27	23:00	2.7	99	
17/07/29	0:00	1.3	96	
17/07/29	1:00	1.3	52	
17/07/29	2:00	1.3	98	
17/07/29	3:00	0.9	55	
17/07/29	4:00	0	-	
17/07/29	5:00	0	-	
17/07/29	6:00	1.3	326	
17/07/29	7:00	1.3	330	
17/07/29	8:00	0		
17/07/29	9:00	0.4	58	
17/07/29	10:00	0.4	170	
17/07/29	11:00	0.9	348	
17/07/29	12:00	1.3	275	
17/07/29	13:00	1.8	273	
17/07/29	14:00	2.7	201	

Meteorological Data for Impact Monitoring in the reporting period				
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)	
17/07/29	15:00	3.1	205	
17/07/29	16:00	1.8	200	
17/07/29	17:00	0.9	274	
17/07/29	18:00	2.2	298	
17/07/29	19:00	1.8	312	
17/07/29	20:00	0.9	277	
17/07/29	21:00	0.9	315	
17/07/29	22:00	0.4	308	
17/07/29	23:00	0.9	320	
17/07/30	0:00	0.9	317	
17/07/30	1:00	0.9	309	
17/07/30	2:00	0.9	315	
17/07/30	3:00	1.3	287	
17/07/30	4:00	2.2	312	
17/07/30	5:00	1.8	309	
17/07/30	6:00	2.2	304	
17/07/30	7:00	2.2	310	
17/07/30	8:00	0.9	278	
17/07/30	9:00	1.3	269	
17/07/30	10:00	2.2	295	
17/07/30	11:00	3.6	298	
17/07/30	12:00	2.2	312	
17/07/30	13:00	2.2	307	
17/07/30	14:00	2.2	315	
17/07/30	15:00	2.2	276	
17/07/30	16:00	1.8	267	
17/07/30	17:00	1.8	205	
17/07/30	18:00	0.9	220	
17/07/30	19:00	0.4	270	
17/07/30	20:00	0.9	284	
17/07/30	21:00	0.9	265	
17/07/30	22:00	0.9	307	
17/07/30	23:00	1.3	311	

Appendix I

Impact Dolphin Monitoring Survey

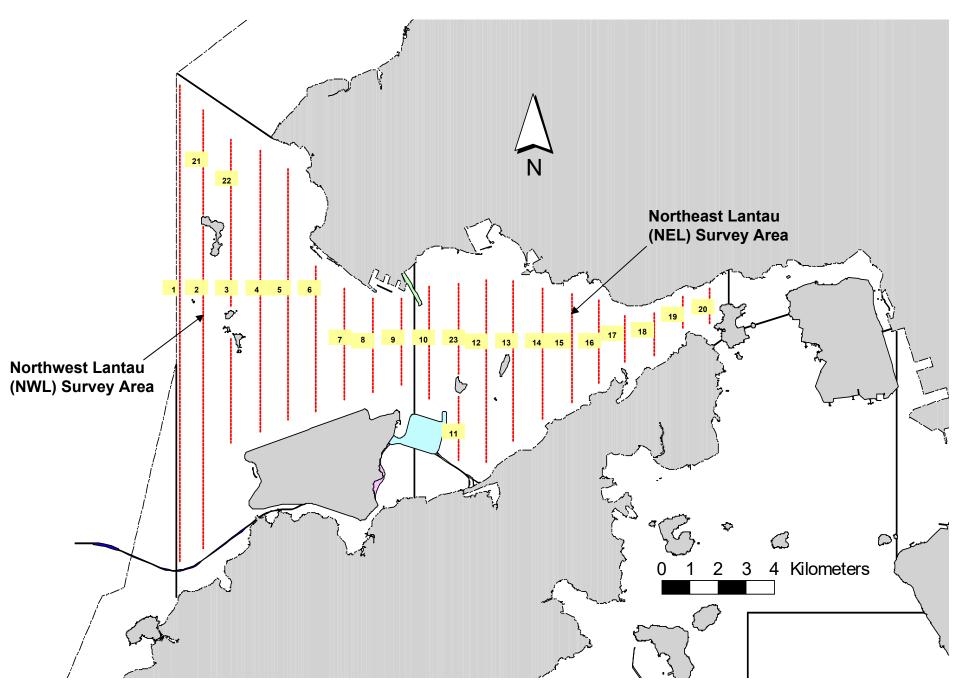


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

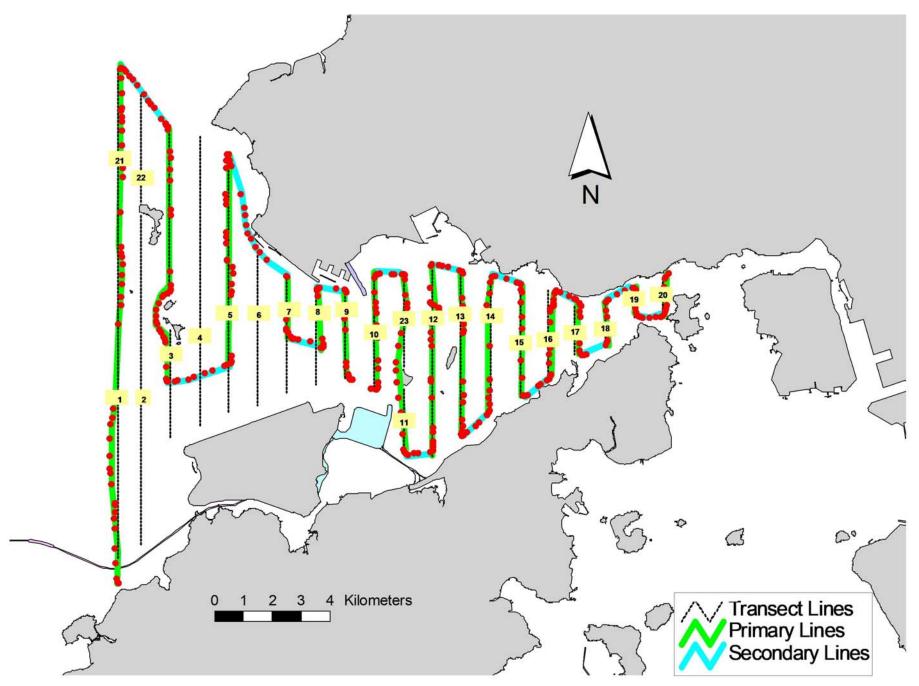


Figure 2. Survey Route on July 20th, 2017 (from HKLR03 project)

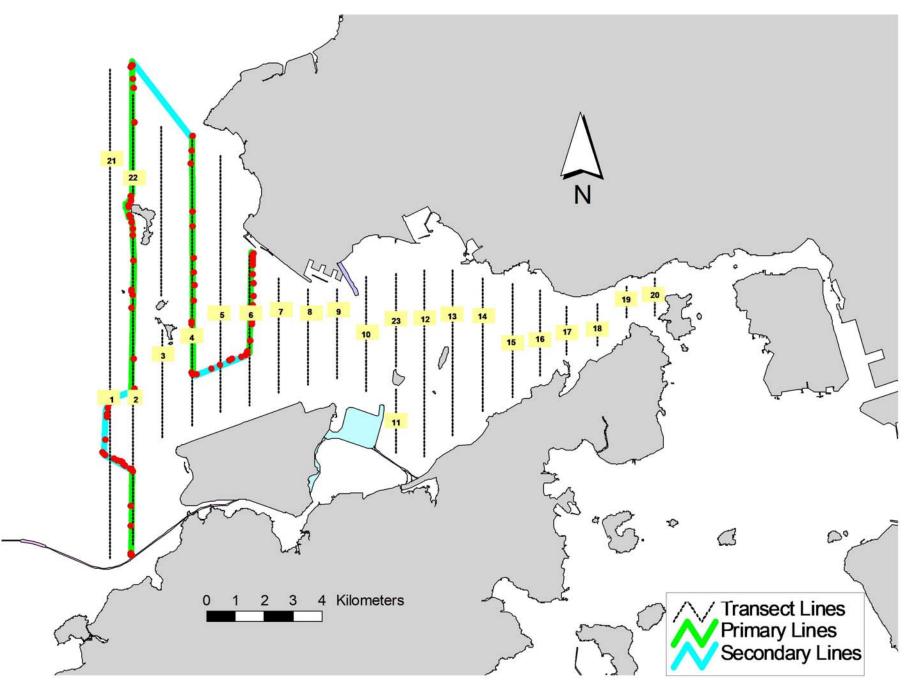


Figure 3. Survey Route on July 24th, 2017 (from HKLR03 project)

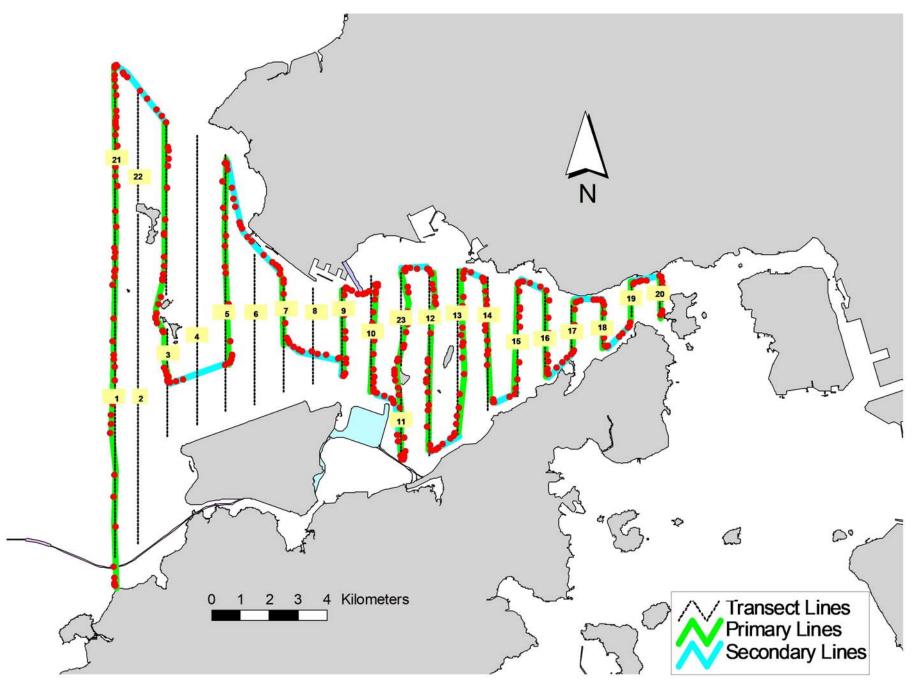


Figure 4. Survey Route on July 27<sup>th</sup>, 2017 (from HKLR03 project)

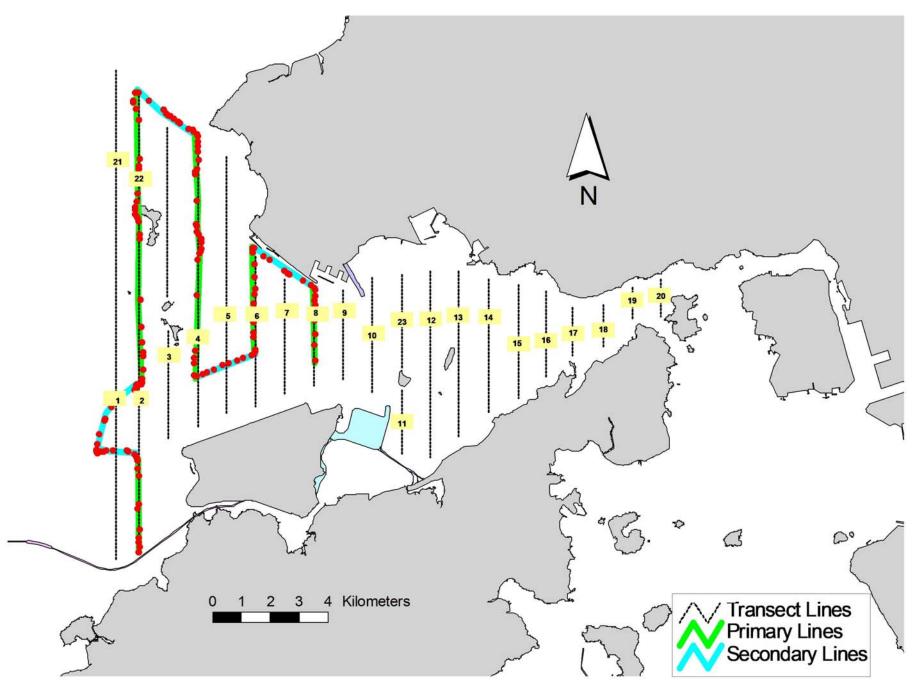


Figure 5. Survey Route on July 28th, 2017 (from HKLR03 project)

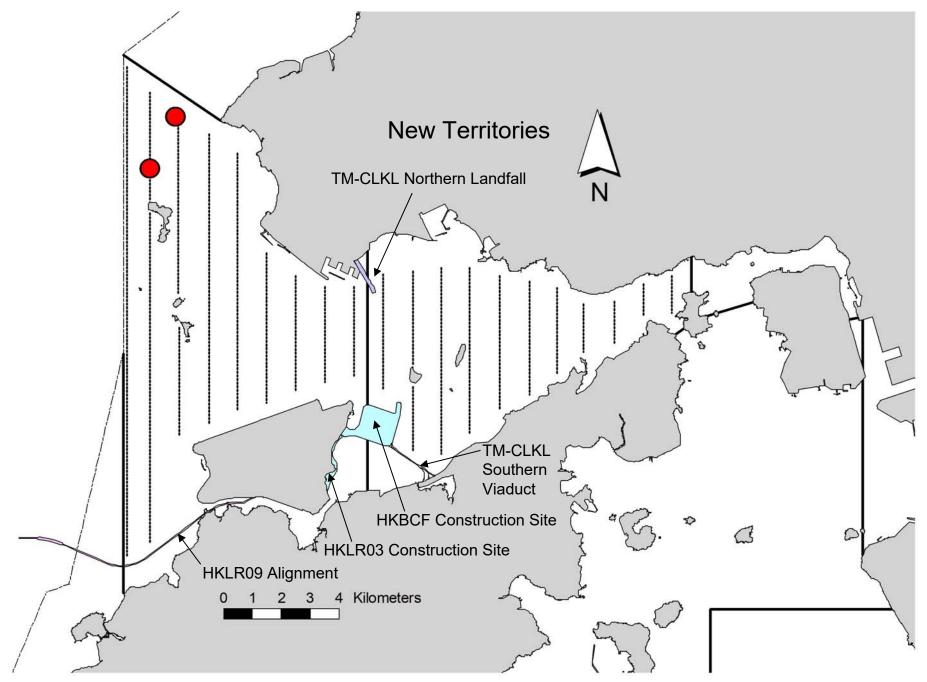


Figure 6. Distribution of Chinese White Dolphin Sightings during July 2017 HKLR03 Monitoring Surveys

## Appendix I. HKLR03 Survey Effort Database (July 2017)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
20-Jul-17	NW LANTAU	2	18.97	SUMMER	STANDARD36826	HKLR	Р
20-Jul-17	NW LANTAU	3	18.23	SUMMER	STANDARD36826	HKLR	Р
20-Jul-17	NW LANTAU	2	7.00	SUMMER	STANDARD36826	HKLR	S
20-Jul-17	NW LANTAU	3	5.70	SUMMER	STANDARD36826	HKLR	S
20-Jul-17	NW LANTAU	4	1.60	SUMMER	STANDARD36826	HKLR	S
20-Jul-17	NE LANTAU	1	3.80	SUMMER	STANDARD36826	HKLR	Р
20-Jul-17	NE LANTAU	2	31.92	SUMMER	STANDARD36826	HKLR	Р
20-Jul-17	NE LANTAU	1	1.20	SUMMER	STANDARD36826	HKLR	S
20-Jul-17	NE LANTAU	2	10.58	SUMMER	STANDARD36826	HKLR	S
24-Jul-17	NW LANTAU	2	20.28	SUMMER	STANDARD36826	HKLR	Р
24-Jul-17	NW LANTAU	3	3.38	SUMMER	STANDARD36826	HKLR	Р
24-Jul-17	NW LANTAU	2	6.35	SUMMER	STANDARD36826	HKLR	S
27-Jul-17	NW LANTAU	2	32.62	SUMMER	STANDARD36826	HKLR	Р
27-Jul-17	NW LANTAU	3	3.79	SUMMER	STANDARD36826	HKLR	Р
27-Jul-17	NW LANTAU	2	12.69	SUMMER	STANDARD36826	HKLR	S
27-Jul-17	NE LANTAU	2	22.18	SUMMER	STANDARD36826	HKLR	Р
27-Jul-17	NE LANTAU	3	13.60	SUMMER	STANDARD36826	HKLR	Р
27-Jul-17	NE LANTAU	2	11.02	SUMMER	STANDARD36826	HKLR	S
27-Jul-17	NE LANTAU	3	2.00	SUMMER	STANDARD36826	HKLR	S
28-Jul-17	NW LANTAU	1	2.10	SUMMER	STANDARD36826	HKLR	Р
28-Jul-17	NW LANTAU	2	19.21	SUMMER	STANDARD36826	HKLR	Р
28-Jul-17	NW LANTAU	3	4.53	SUMMER	STANDARD36826	HKLR	Р
28-Jul-17	NW LANTAU	2	10.69	SUMMER	STANDARD36826	HKLR	S
28-Jul-17	NW LANTAU	3	1.77	SUMMER	STANDARD36826	HKLR	S

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

D	DATE	STG #	TIME	HRD SZ	AREA	BEAU	PSD	EFFORT	TYPE	NORTHING	EASTING	SEASON	BOAT ASSOC.	P/S
2	24-Jul-17	1	1111	9	NW LANTAU	2	243	ON	HKLR	828092	805439	SUMMER	NONE	Р
2	27-Jul-17	1	1131	2	NW LANTAU	2	16	ON	HKLR	829774	806339	SUMMER	NONE	S

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

ID#	DATE	STG#	AREA
NL46	24/07/17	1	NW LANTAU
NL49	24/07/17	1	NW LANTAU
NL105	24/07/17	1	NW LANTAU
NL123	24/07/17	1	NW LANTAU
NL202	24/07/17	1	NW LANTAU
NL286	24/07/17	1	NW LANTAU
WL05	27/07/17	1	NW LANTAU
WL11	27/07/17	1	NW LANTAU



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

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							
	<ol> <li>Identify the source.</li> <li>Repeat measurement to confirm finding. If two consecutive measurements exceed Limit</li> </ol>	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.
	<ul> <li>Level, the exceedance is then confirmed.</li> <li>Inform the IEC, the SOR, the DEP and the Contractor.</li> <li>Investigate the cause of exceedance and check Contractor's working procedures to determine possible mitigation to be implemented.</li> </ul>	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	<ul><li>implemented.</li><li>5. If the exceedance is confirmed to be Project related after investigation, increase monitoring frequency to daily.</li></ul>	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.
(	<ol> <li>Carry out analysis of the Contractor's working procedures to determine possible mitigation to be implemented.</li> </ol>	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	<ol> <li>Assess effectiveness of the Contractor's remedial actions and keep the IEC, the DEP and the SOR informed of the results.</li> </ol>				until the exceedance is abated.		until the exceedance is abated.
9	<ol> <li>If exceedance stops, cease additional monitoring.</li> </ol>						

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

EVENT		ACTION		
	ET	IEC	SOR	Contractor
	<ol> <li>Identify source(s) of impact;</li> <li>Inform the IEC, SOR and Contractor of findings;</li> <li>Check monitoring data;</li> <li>Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary.</li> <li>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.</li> </ol>	<ul> <li>Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures.</li> <li>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.</li> <li>5. Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise SOR the results and findings accordingly.</li> </ul>	<ul> <li>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.</li> <li>3. Supervise the implementation of additional monitoring and/or any other mitigation measures.</li> </ul>	<ul> <li>potential mitigation measures.</li> <li>3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary.</li> <li>4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures.</li> </ul>

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	3	33
	Limit	0	2
24-hr TSP	Action	0	5
	Limit	0	1
Water Quality	Action	0	6
	Limit	0	1
Impact Dolphin	Action	0	9
Monitoring	Limit	0	9

# Table K2Cumulative Statistics on Complaints, Notifications of Summons and<br/>Successful Prosecutions

<b>Reporting Period</b>			
	Complaints	Notifications of	Successful
		Summons	Prosecutions
This Reporting Month July 2017)	0	0	0
Total No. received since project commencement	14	1	0

Email message		Environmental Resources Management
То	Ramboll Environ - Hong Kong, Limited (ENPO)	16/F Berkshire House, 25 Westlands Road Quarry Bay, Hong Kong
From	ERM- Hong Kong, Limited	Telephone: (852) 2271 3113 Facsimile: (852) 2723 5660 E-mail: jovy.tam@erm.com
Ref/Project number	Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link-Northern Connection Sub-sea Tunnel Section	
Subject	Notification of Exceedance for Air Quality Impact Monitoring	
Date	29 July 2017	ERM

Dear Sir or Madam,

Please find attached the Notification of Exceedance (NOE) of the following Log no.:

0212330\_29July2017\_1hrTSP\_Station ASR10 0212330\_29July2017\_1hrTSP\_Station ASR5 0212330\_29July2017\_1hrTSP\_Station ASR6

A total of three Action Level Exceedances were recorded on 29 July 2017.

Regards,

Mr Jovy Tam Environmental Team Leader

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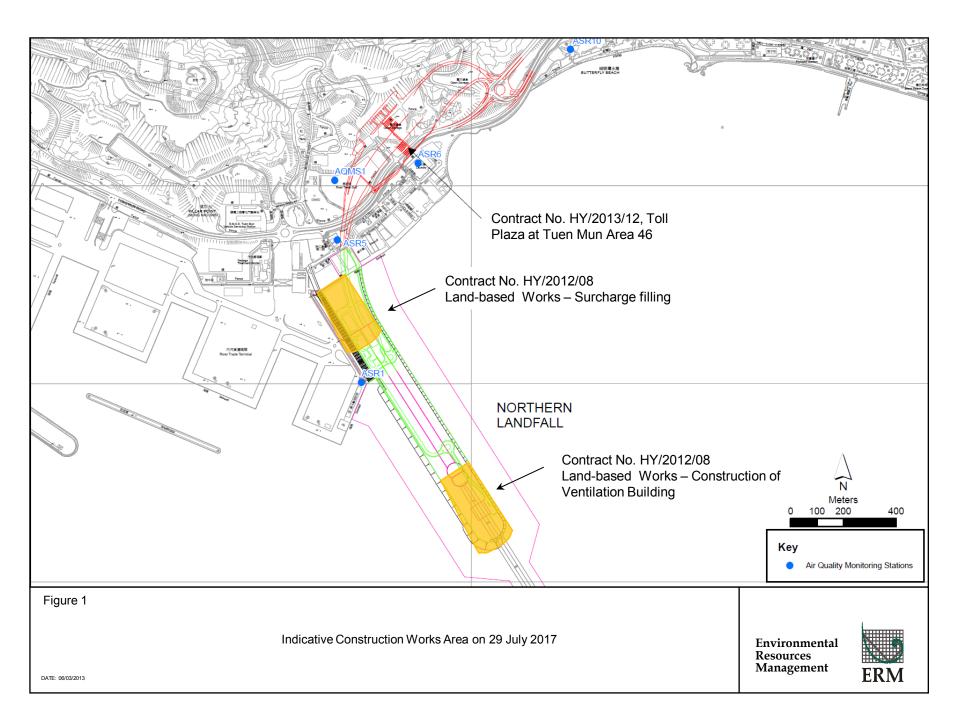


## CONTRACT NO. HY/2012/08 Tuen Mun – Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section

## Air Quality Impact Monitoring Notification of Exceedance

Log No. Date Monitoring Station Parameter(s) with Exceedance(s) Action Levels	$\begin{array}{c c} 0212330\_29July2017\_1hrTSP\_Station ASR10\\ 0212330\_29July2017\_1hrTSP\_Station ASR5\\ 0212330\_29July2017\_1hrTSP\_Station ASR6\\ [Total No. of Exceedances = 3]\\ \hline \\ 29 July 2017 (Measured)\\ 7 August 2017 (Laboratory results received by ERM)\\ \hline ASR1, ASR5, ASR6, ASR10 and AQMS1\\ \hline \\ 1-hr TSP\\ \hline \\ \hline \\ 1-hr TSP (\mu g/m^3) & ASR10 = 337\\ ASR5 = 340\\ ASR6 = 338\\ \hline \end{array}$			
	24-hr TSP (μg/m <sup>3</sup> )	ASR10 = 214 ASR5 = 238 ASR6 = 238		
Limit Levels	1-hr TSP (μg/m³)           24-hr TSP (μg/m³)	500 260		
Measured Levels	Action Level Exceedance for 1-hr	ISP is observed at ASR10 (475 $\mu$ g/m <sup>3</sup> ) during 1524 - 1624 hrs. ISP is observed at ASR6 (401 $\mu$ g/m <sup>3</sup> ) during 1534 - 1634 hrs. ISP is observed at ASR5 (370 $\mu$ g/m <sup>3</sup> ) during 1545 - 1645hrs.		
Works Undertaken (at the time of monitoring event)		was carried out at Works Area Portion N-A and Construction of		
Possible Reason for Action or Limit Level Exceedance(s)	<ul> <li>According to the construction construction works on 29 Ju Construction of Ventilation construction works, the Conthe EP, approved EIA and I exposed soil within the Profacilities).</li> <li>Whilst exceedances of Activation level at the monitoring station 29 July 2017 were in complition Same level and extent of control July and 26th July whilst no observed exceedances for 1 event associated with traffic hour at Lung Mun Road.</li> <li>As stated in the EIA report than the other region of Hour and Same and</li></ul>	be due to the Project, in view of the following: on information provided by the Contractor, the majority of aly 2017 were Surcharge Filling at Works Area Portion N-A and a Building at Portions N-C During the period of the land-based ntractor has implemented the required mitigation measures as per Updated EM&A Manual (e.g. water spraying by water trucks on ject site and associated work areas; use of wheel washing on Level were observed at ASR10, ASR5 and ASR6, the 24-hr TSP ion (ASR10 = 99 $\mu$ g/m <sup>3</sup> , ASR5 = 100 $\mu$ g/m <sup>3</sup> , ASR6 = 114 $\mu$ g/m <sup>3</sup> ) on iance with the Action and Limit Levels. nstruction works were carried out at the same works area on 23 <sup>th</sup> exceedance was recorded. It is thus considered that the -hour TSP at ASR10, ASR5 and ASR6 may represent sporadic c emissions and anthropogenic activities during afternoon rush (Section 4.2.3), the background TSP level of Tuen Mun is higher ing Kong, thus the exceedances may be also contributed construction works / traffic within the Tuen Mun Area rather than a works of the Project.		

Actions Taken / To Be	Based on the record of weekly site inspection on 26 July 2017 and 2 August 2017, no dust nuisance
Taken	was recorded at the Northern Landfall and activities conducted in this Contract's work has strictly
	followed the requirements stated in the EP (EP-354/2009/C) (see photo records on Annex A).
	Inspection of the AQM stations has also been carried out on 4 August 2017. No significant dust
	impact was observed at all stations. In addition, the Contractor has implemented the required
	mitigation measures as per the EP, approved EIA and Updated EM&A Manual (e.g. use of water
	truck on exposed soil within the Project site and associated work areas; use of wheel washing
	facilities) throughout the construction period, no additional mitigation is deemed necessary. The
	Enhanced TSP Monitoring has commenced on 24 October 2014, the ET will monitor for future trends
	in exceedances.
Remarks	The monitoring results and the locations of air quality monitoring stations are attached.



Project	Works	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2017-07-23	AQMS1	Cloudy	15:05	1-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	2017-07-23	AQMS1	Cloudy	16:07	1-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2017-07-23	AQMS1	Cloudy	17:09	1-hour TSP	31	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR1	Cloudy	14:54	1-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR1	Cloudy	15:56	1-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR1	Cloudy	16:58	1-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR10	Cloudy	14:22	1-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR10	Cloudy	15:24	1-hour TSP	55	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR10	Cloudy	16:26	1-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR5	Cloudy	14:44	1-hour TSP	34	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR5	Cloudy	15:46	1-hour TSP	42	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR5	Cloudy	16:48	1-hour TSP	40	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR6	Cloudy	14:33	1-hour TSP	44	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR6	Cloudy	15:35	1-hour TSP	37	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR6	Cloudy	16:37	1-hour TSP	36	ug/m3
TMCLKL	HY/2012/08	2017-07-26	AQMS1	Sunny	13:50	1-hour TSP	51	ug/m3
TMCLKL	HY/2012/08	2017-07-26	AQMS1	Sunny	14:52	1-hour TSP	89	ug/m3
TMCLKL	HY/2012/08	2017-07-26	AQMS1	Sunny	15:54	1-hour TSP	78	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR1	Sunny	13:39	1-hour TSP	127	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR1	Sunny	14:41	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR1	Sunny	15:43	1-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR10	Sunny	13:07	1-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR10	Sunny	14:09	1-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR10	Sunny	15:11	1-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR5	Sunny	13:29	1-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR5	Sunny	14:31	1-hour TSP	146	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR5	Sunny	15:33	1-hour TSP	102	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR6	Sunny	13:18	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR6	Sunny	14:20	1-hour TSP	169	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR6	Sunny	15:22	1-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2017-07-29	AQMS1	Sunny	14:02	1-hour TSP	177	ug/m3
TMCLKL	HY/2012/08	2017-07-29	AQMS1	Sunny	15:04	1-hour TSP	171	ug/m3
TMCLKL	HY/2012/08	2017-07-29	AQMS1	Sunny	16:06	1-hour TSP	224	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR1	Sunny	13:52	1-hour TSP	225	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR1	Sunny	14:54	1-hour TSP	200	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR1	Sunny	15:56	1-hour TSP	209	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR10	Sunny	13:20	1-hour TSP	165	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR10	Sunny	14:22	1-hour TSP	95	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR10	Sunny	15:24	1-hour TSP	475	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR5	Sunny	13:41	1-hour TSP	243	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR5	Sunny	14:43	1-hour TSP	323	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR5	Sunny	15:45	1-hour TSP	370	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR6	Sunny	13:30	1-hour TSP	264	ug/m3

TMCLKL	HY/2012/08	2017-07-29	ASR6	Sunny	14:32	1-hour TSP	320	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR6	Sunny	15:34	1-hour TSP	401	ug/m3
TMCLKL	HY/2012/08	2017-07-23	AQMS1	Cloudy	18:11	24-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR1	Cloudy	18:00	24-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR10	Cloudy	17:28	24-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR5	Cloudy	17:50	24-hour TSP	39	ug/m3
TMCLKL	HY/2012/08	2017-07-23	ASR6	Cloudy	17:39	24-hour TSP	42	ug/m3
TMCLKL	HY/2012/08	2017-07-26	AQMS1	Sunny	16:56	24-hour TSP	35	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR1	Sunny	16:45	24-hour TSP	137	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR10	Sunny	16:13	24-hour TSP	21	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR5	Sunny	16:35	24-hour TSP	57	ug/m3
TMCLKL	HY/2012/08	2017-07-26	ASR6	Sunny	16:24	24-hour TSP	51	ug/m3
TMCLKL	HY/2012/08	2017-07-29	AQMS1	Sunny	17:08	24-hour TSP	77	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR1	Sunny	16:58	24-hour TSP	152	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR10	Sunny	16:26	24-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR5	Sunny	16:47	24-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2017-07-29	ASR6	Sunny	16:36	24-hour TSP	114	ug/m3



## Annex A Photo Records taken during Weekly Site Inspection

\*Note: Photos taken on 26/7/2017



Water spraying was applied frequently during dry conditions.(Works Area Portion N-A)



Use of water truck on exposed soil within the Project site and associated work areas. (Works Area Portion N-C)

Appendix L

Waste Flow Table



## Monthly Summary Waste Flow Table

Name of Department: <u>HyD</u>

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

Monthly Summary Waste Flow Table for July 2017 [to be subm

[to be submitted not later than the 15<sup>th</sup> 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	1097.465	0.000	0.000	0.000	1097.465				
Jan-2017	60.781	0.000	0.000	0.000	60.781				
Feb-2017	17.367	0.000	0.000	0.000	17.367				
Mar-2017	7.508	0.000	0.000	0.000	7.508				
Apr-2017	15.603	0.000	0.000	0.000	15.603				
May-2017	12.358	0.000	0.000	0.000	12.358				
Jun-2017	0.194	0.000	0.000	0.000	0.194				
Half Year Sub-total									
Jul-2017	0.652	0.000	0.000	0.000	0.652				
Aug-2017									
Sep-2017									
Oct-2017									
Nov-2017									
Dec-2017									
Project Total Quantities	1211.9284	0.000	0.000	0.000	1211.9284				



	Actual Quantities of <u>Non-inert</u> Construction Waste Generated Monthly									
Month	Metals (in '000kg)		Paper/ cardboard packaging (in '000kg)		Plastics (see Note 3) (in '000kg)		Chemical Waste (in '000kg)		Others, e.g. General Refuse disposed at Landfill	
									(in '000ton)	
	generated	recycled	generated	recycled	generated	recycled	generated	Disposed	generated	
Sub-total	1.850	1.850	3.150	3.150	6.870	6.870	9.450	9.450	4.935	
Jan-2017	0.000	0.000	0.000	0.000	0.000	0.000	3.400	3.400	0.257	
Feb-2017	0.000	0.000	0.200	0.200	0.000	0.000	0.000	0.000	0.340	
Mar-2017	0.000	0.000	0.000	0.000	0.000	0.000	6.100	6.100	0.286	
Apr-2017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.237	
May-2017	0.000	0.000	0.000	0.000	0.000	0.000	10.400	10.400	0.300	
Jun-2017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	
Half Year Sub-total	0.000	0.000	0.200	0.200	0.000	0.000	19.900	19.900	1.737	
Jul-2017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.272	
Aug-2017										
Sep-2017										
Oct-2017										
Nov-2017										
Dec-2017										
Project Total Quantities	1.850	1.850	3.350	3.350	6.870	6.870	29.350	29.350	6.927	



Forecast of Total Quantities of Construction and Demolition Materials to be Generated from the Contract*									
Total Quantity Generated	Total Quantity GeneratedHard Rock and Large Broken ConcreteReused in the ContractReused in other ProjectsDisposed 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 20.000									

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

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

(2) The waste flow table shall also include C&D materials to be imported for use at the Site.

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

(4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m<sup>3</sup>. (ER Part 8 Clause 8.8.5 (d) (ii) refers).