

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

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

13 October 2015

#### **Environmental Resources Management**

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



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14 October 2015

By Fax (2293 6300) and By Post

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

Attention: Messrs. Edwin Ching / Andy Westmoreland

Dear Sirs,

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

#### Contract No. HY/2012/08 TM-CLKL Northern Connection Sub-sea Tunnel Section Monthly EM&A Report for September 2015 (EP-354/2009/D)

Reference is made to the Monthly Environmental Monitoring and Audit (EM&A) Report (Sep. 2015) (ET's ref.: "0212330\_23rd Monthly EM&A\_20151002.doc" dated 13 Oct. 2015) certified by the ET Leader and provided to us via e-mail on 13 Oct. 2015.

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

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

Yours sincerely,

Hoffa Doorf

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

c.c.

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

Internal: DY, YH, LP, CL, ENPO Site

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

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

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#### Environmental Resources Management

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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 Twenty-third Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 30 September 2015 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

- Surcharge Removal at Works Area Portion N-C;
- Box Culvert Extension at Works Area Portion N-A;
- Construction of capping beam and base slab for Ventilation Shaft at Works Area Portion N-C;
- Installation of Tower Crane at Works Area Portion N-C;
- TBM Tunnel Works at Works Area Portion N-B; and
- Modification and Maintenance Works for Slurry Treatment Plant at Works Area Portion N-C.

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	5 sessions

Implementation of Marine Mammal Exclusion Zone

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

#### Summary of Breaches of Action/Limit Levels

#### Breaches of Action and Limit Levels for Air Quality

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

#### 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 October 2015 include the following:

#### Land-based Works

- Box Culvert Extension at Works Area Portion N-A;
- Installation of Tower Crane at Works Area Portion N-C;
- Base Slab Construction for Ventilation Shaft at Works Area Portion N-C;
- TBM Tunnel Works at Works Area Portion N-B; and
- Modification and Maintenance Works for Slurry Treatment Plant at Works Area Portion N-C.

#### Future Key Issues

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of October 2015 are expected to be mainly associated with dust, marine ecology and waste management.

#### 1.1 BACKGROUND

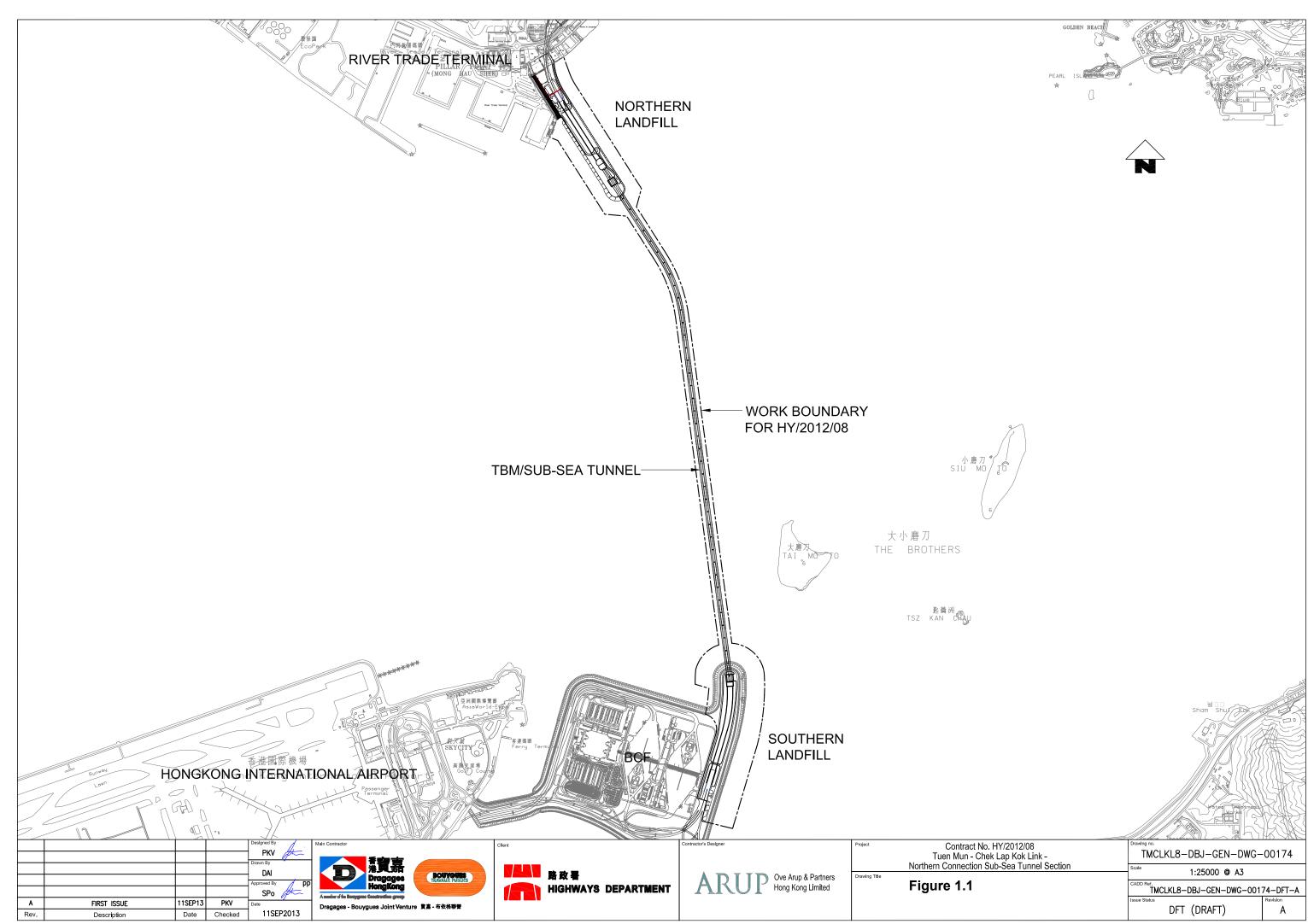
According to the findings of the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by the Transport Department, Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway would be operating beyond capacity after 2016. This forecast has been based on the estimated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

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

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

Layout of the Contract components is presented in Figure 1.1.

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



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#### 1.2 SCOPE OF REPORT

This is the Twenty-third 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 September 2015.

#### 1.3 ORGANIZATION STRUCTURE

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

#### Table 1.1Contact Information of Key Personnel

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

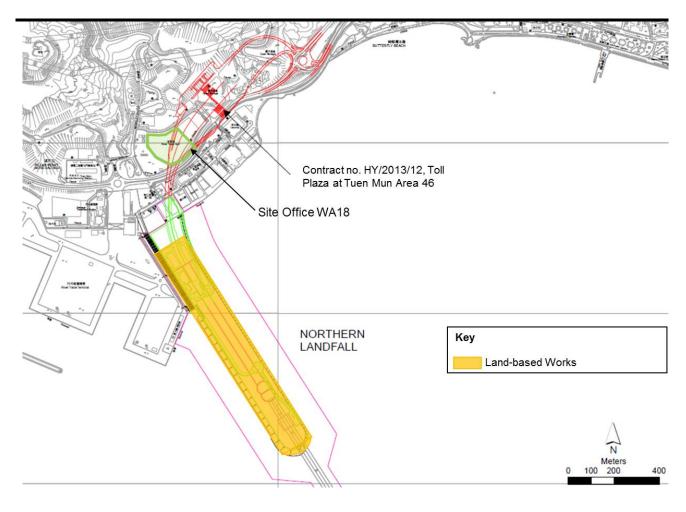
The implementation schedule of environmental mitigation measures is presented in *Appendix C*.

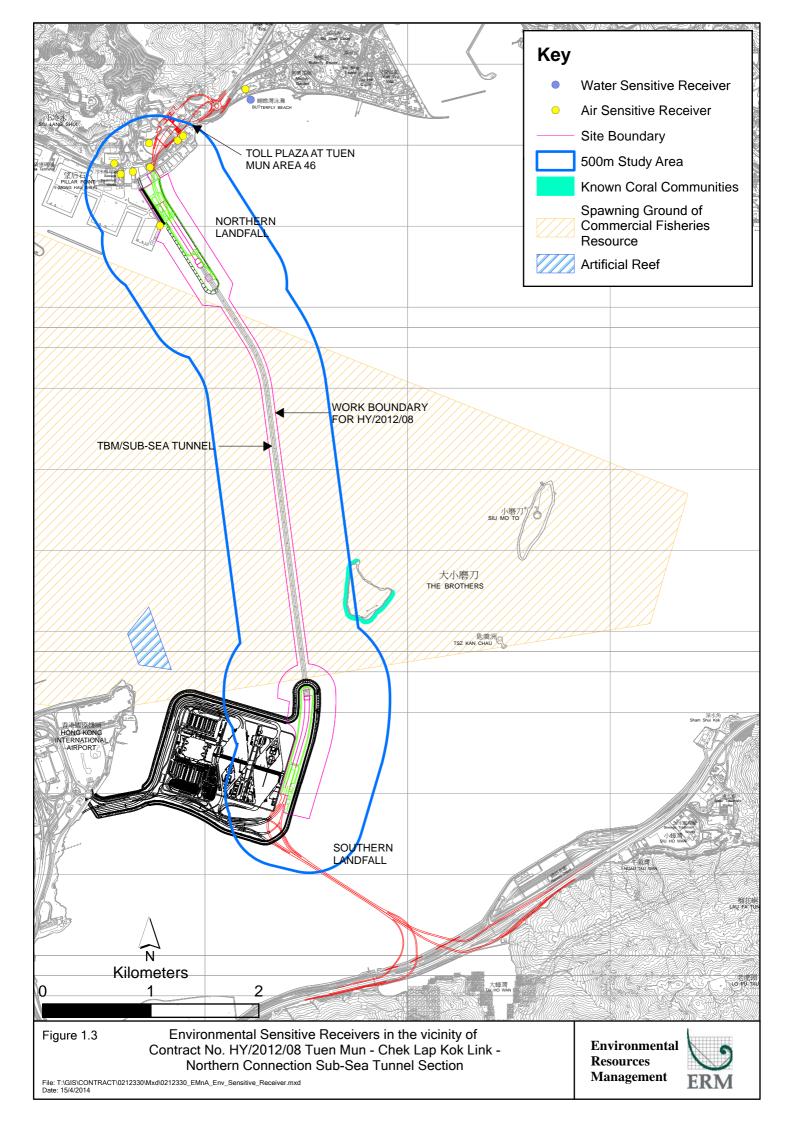
#### **Construction Activities Undertaken**

#### Land-based Works

- Surcharge Removal at Works Area Portion N-C;
  - Box Culvert Extension at Works Area Portion N-A;
- Construction of capping beam and base slab for Ventilation Shaft at Works Area Portion N-C;
- Installation of Tower Crane at Works Area Portion N-C;
- TBM Tunnel Works at Works Area Portion N-B; and
- Modification and Maintenance Works for Slurry Treatment Plant at Works Area Portion N-C.

Figure 1.2 Locations of Construction Activities – September 2015





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

ASR6

ASR10

#### 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 September 2015 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	Fireboat Station		1-hour Total Suspended
	September 2015			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

Butterfly Beach

**Butterfly Beach** 

Laundry

Park

Office

uses

Recreational

Table 2.1Locations of Impact Air Quality Monitoring Stations and Monitoring Dates<br/>in this Reporting Period

Enhanced TSP monitoring

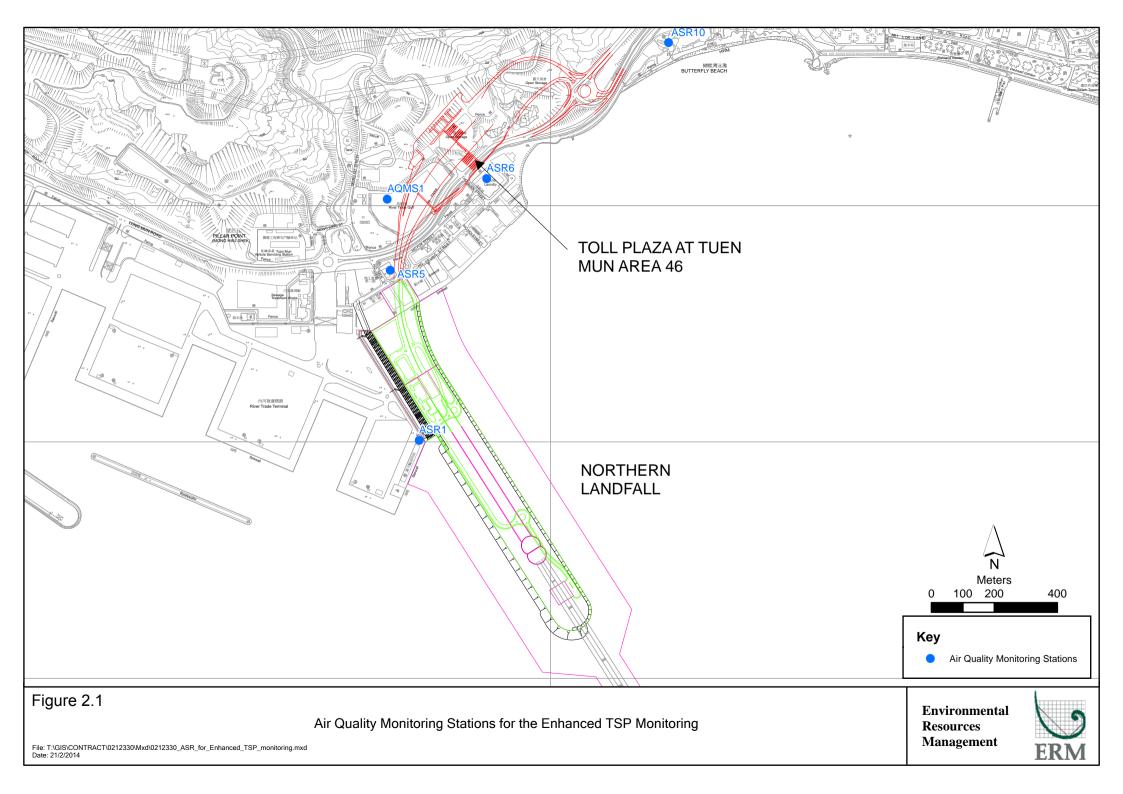
 1-hour Total Suspended Particulates (1-hour TSP,

every 3 days

(commenced on 24 October 2014)

24-hour Total Suspended Particulates (24-hour TSP, μg/m<sup>3</sup>), daily for 24-hour in

 $\mu g/m^3$ ), 3 times in every 3 days



Equipment	Brand and Model
High Volume Sampler (1-hour TSP and 24-hour TSP)	Tisch Environmental Mass Flow Controlled Total Suspended Particulate (TSP) High
(1-11001 151 and 24-11001 151)	Volume Sampler (Model No. TE-5170)
Wind Meter	Davis (Model: Weather Wizard III (S/N: WE90911A30)
Wind Anemometer for calibration	Lutron (Model No. AM-4201)

#### 2.1.2 Action & Limit Levels

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

#### 2.1.3 Monitoring Schedule for the Reporting Month

The schedule for air quality monitoring in September 2015 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	109	56 - 283	331	500
ASR5	116	52 - 293	340	500
AQMS1	98	49 - 167	335	500
ASR6	103	59 - 238	338	500
ASR10	70	42 - 110	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	76	49 - 137	213	260
ASR5	78	45 - 124	238	260
AQMS1	68	48 - 87	213	260
ASR6	68	54 - 93	238	260
ASR10	58	45 - 84	214	260

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

A total of ten monitoring events were undertaken in which no Action or Limit Level exceedances of 1-hr TSP were recorded in this reporting month. No Action or Limit Level exceedances for 24-hr TSP were record. Meteorological information collected at the ASR5, including wind speed and wind direction, is provided in *Appendix H*.

#### 2.2 WATER QUALITY MONITORING

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

#### 2.3 DOLPHIN MONITORING

#### 2.3.1 Monitoring Requirements

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

#### 2.3.2 Monitoring Equipment

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

Table 2.5Dolphin Monitoring Equipment

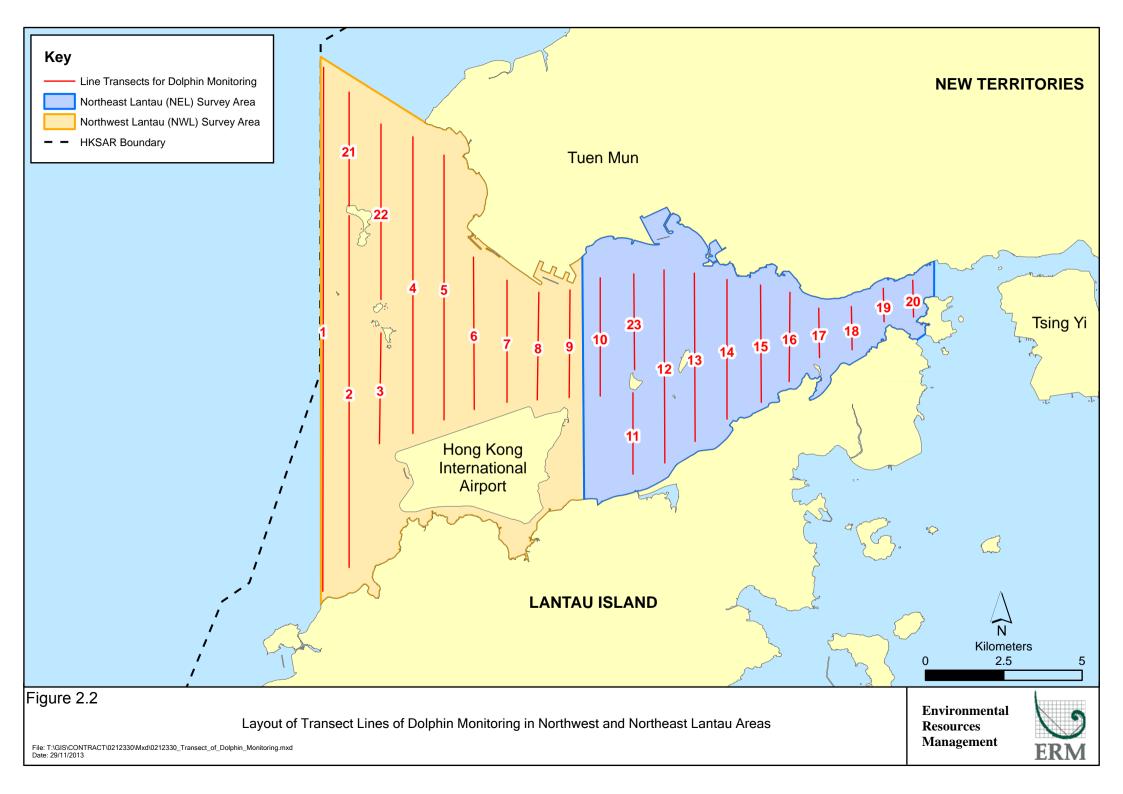
Equipment	Model
Global Positioning System (GPS)	Garmin 18X-PC
	Geo One Phottix
Camera	Nikon D90 300m 2.8D fixed focus
	Nikon D90 20-300m zoom lens
Laser Binocular	Infinitor LRF 1000
Marine Binocular	Bushell 7 x 50 marine binocular with compass and reticules
Vessel for Monitoring	65 foot single engine 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 2.6* below.



	Line No.	Easting	Northing		Line No.	Easting	Northing
1	Start Point	804671	815456	13	Start Point	816506	819480
1	End Point	804671	831404	13	End Point	816506	824859
2	Start Point	805475	815913	14	Start Point	817537	820220
2	End Point	805477	826654	14	End Point	817537	824613
3	Start Point	806464	819435	15	Start Point	818568	820735
3	End Point	806464	822911	15	End Point	818568	824433
4	Start Point	807518	819771	16	Start Point	819532	821420
4	End Point	807518	829230	16	End Point	819532	824209
5	Start Point	808504	820220	17	Start Point	820451	822125
5	End Point	808504	828602	17	End Point	820451	823671
6	Start Point	809490	820466	18	Start Point	821504	822371
6	End Point	809490	825352	18	End Point	821504	823761
7	Start Point	810499	820880	19	Start Point	822513	823268
7	End Point	810499	824613	19	End Point	822513	824321
8	Start Point	811508	821123	20	Start Point	823477	823402
8	End Point	811508	824254	20	End Point	823477	824613
9	Start Point	812516	821303	21	Start Point	805476	827081
9	End Point	812516	824254	21	End Point	805476	830562
10	Start Point	813525	820872	22	Start Point	806464	824033
10	End Point	813525	824657	22	End Point	806464	829598
11	Start Point	814556	818853	23	Start Point	814559	821739
11	End Point	814556	820992	23	End Point	814559	824768
12	Start Point	815542	818807				
12	End Point	815542	824882				

#### Table 2.6Impact Dolphin Monitoring Line Transect Co-ordinates

#### 2.3.5 Action & Limit Levels

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

#### 2.3.6 Monitoring Schedule for the Reporting Month

Dolphin monitoring was carried out on 2, 11, 17 and 29 of September 2015. The dolphin monitoring schedule for the reporting month is shown in *Appendix F*.

#### 2.3.7 Results & Observations

A total of 303.46 km of survey effort was collected, with 99.0% of the total survey effort being conducted under favourable weather conditions (ie Beaufort Sea State 3 or below with good visibility) in September 2015. Amongst the two areas, 115.34 km and 188.12 km of survey effort were collected from NEL and NWL survey areas, respectively. The total survey effort conducted on primary and secondary lines were 221.51 km and 81.95 km, respectively. The survey efforts are summarized in *Appendix I*.

A total of 7 groups of fifty-four Chinese White Dolphin sightings were recorded during the two sets of surveys in September 2015. All seven sightings were made in NWL during the survey in September 2015. All seven sightings were made on primary lines during on-effort search. One of the dolphin groups was associated with an operating purse-seiner near Lung Kwu Chau.

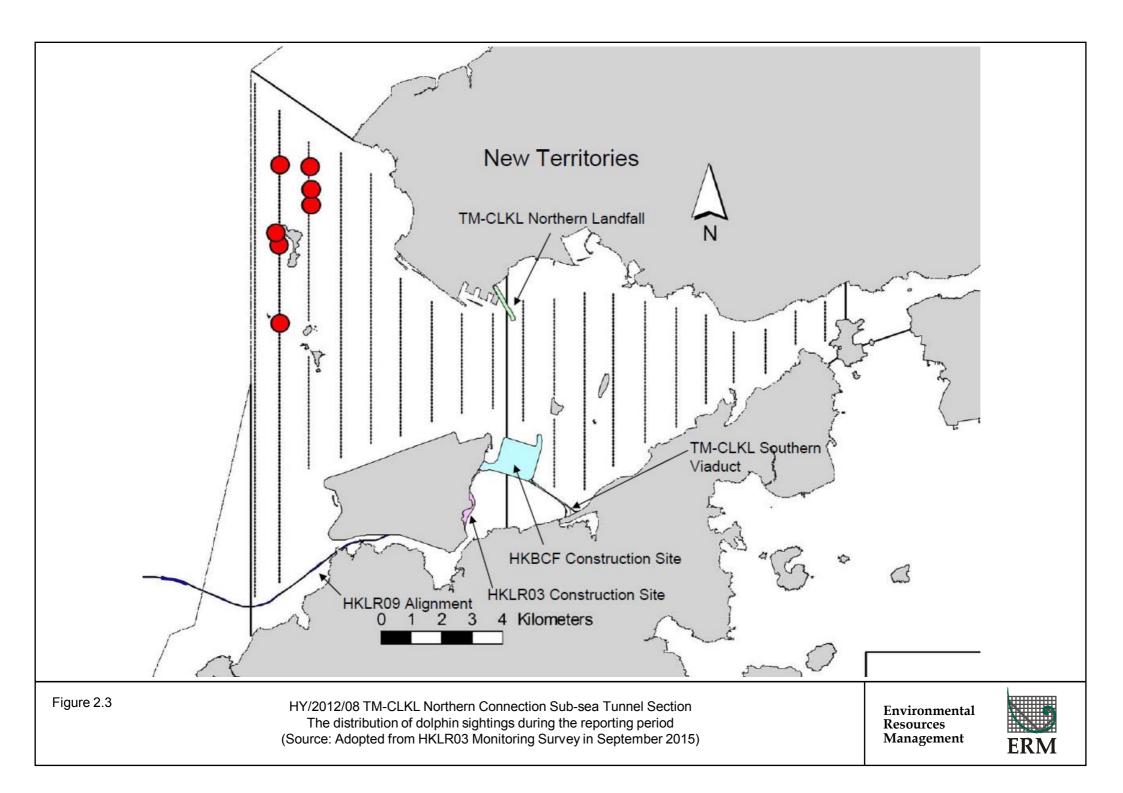
None of the sightings was made in the vicinity of the TM-CLKL Northern Connection Sub-sea Tunnel Section. The distribution of dolphin sightings during the reporting month is shown in *Figure 2.3*.

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 with good visibility) in September 2015 with the results present in *Tables 2.7* and *2.8*.

		Encounter rate (STG)	Encounter rate (ANI)
		(no. of on-effort dolphin	(no. of dolphins from all on-
		sightings per 100 km of survey effort)	effort sightings per 100 km of survey effort)
		Primary Lines Only	Primary Lines Only
NEL	Set 1: September 2 <sup>nd</sup> /11 <sup>th</sup>	0.0	0.0
INEL	Set 2: September 17th/29th	0.0	0.0
NWL	Set 1: September 2 <sup>nd</sup> /11 <sup>th</sup>	5.5	52.0
INVVL	Set 2: September 17th/29th	4.0	21.4

#### Table 2.7Individual Survey Event Encounter Rates

Note: Dolphin Encounter Rates are deduced from the Two Sets of Surveys (Two Surveys in Each Set) in September 2015 in Northeast (NEL) and Northwest Lantau (NWL)



#### Table 2.8Monthly Average Encounter Rates

	(no. of on-ef	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	4.7	3.7	36.5	28.7			

Note: Overall dolphin encounter rates (sightings per 100 km of survey effort) from all four surveys are conducted in September 2015 on primary lines only as well as both primary lines and secondary lines in Northeast and Northwest Lantau.

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

#### 2.3.8 Implementation of Marine Mammal Exclusion Zone

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

#### 2.4 EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting month, five (5) site inspections were carried out on 2, 9, 16, 23 and 30 September 2015.

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
2 September 2015	<ul> <li>Works Area - Portion N-A</li> <li>Excess muddy water should be cleared and bunds should be provided to avoid runoff.</li> <li>Noise cover should be provided during ground breaking works and water spraying should be applied during hydraulic breaking operation.</li> <li>Chemical labels should be provided for the chemical container.</li> <li>Works Area - Portion N-B</li> <li>Excess muddy materials should be cleared.</li> <li>Works Area - Portion N-C</li> <li>Chemical containers should be stored in chemical storage area.</li> <li>Excess muddy water should be cleared to avoid runoff.</li> <li>Silt curtain should be applied around the barge.</li> </ul>	<ul> <li>Works Area - Portion N-A</li> <li>The Contractor was reminded to clear the excess muddy water and provide bunds to avoid runoff.</li> <li>The Contractor was reminded to provide noise cover during ground breaking works and apply water spraying during hydraulic breaking operation.</li> <li>The Contractor was reminded to provide chemical labels for the chemical container.</li> <li>Works Area - Portion N-B</li> <li>The Contractor was reminded to clear the excess muddy materials.</li> <li>Works Area - Portion N-C</li> <li>The Contractor was reminded to store the chemical containers in chemical storage area.</li> <li>The Contractor was reminded to clear the excess muddy materials.</li> <li>The Contractor was reminded to clear the chemical containers in chemical storage area.</li> <li>The Contractor was reminded to clear the excess muddy materials.</li> <li>The Contractor was reminded to clear the excess muddy materials.</li> <li>The Contractor was reminded to clear the excess muddy materials.</li> <li>The Contractor was reminded to clear the excess muddy water to avoid runoff.</li> <li>The Contractor was reminded to apply silt curtain around the barge.</li> </ul>
9 September 2015	<ul><li>Works Area - Portion N-A</li><li>Drip tray should be maintained in good capacity.</li></ul>	<ul> <li>Works Area - Portion N-A</li> <li>The Contractor was reminded to clear the water inside the drip tray.</li> </ul>
16 September 2015	<ul> <li>Works Area - Portion N-B</li> <li>Water spraying or cover should be provided to the idle stockpile in windy condition.</li> <li>Works Area - Portion N-C</li> <li>Site drainage system should be maintained to prevent the washout of materials during rainstorm.</li> <li>Water leakage was observed on the pipe.</li> </ul>	<ul> <li>Works Area - Portion N-B</li> <li>The Contractor was reminded to provide water spraying or partially cover on the idle part of the stockpile.</li> <li>Works Area - Portion N-C</li> <li>The Contractor was reminded to clear the materials in the channels and maintain site drainage.</li> <li>The Contractor was reminded to fix the water leakage and review the location of the water discharge point.</li> </ul>

Inspection Date	Observations	Recommendations/ Remarks
23 September 2015	<ul> <li>Works Area - Portion N-B</li> <li>Water inside the drip tray should be cleared.</li> <li>Works Area - Portion N-A</li> <li>Chemical labels should be provided to the oil drum and the oil drum should be placed in drip tray.</li> </ul>	<ul> <li>Works Area - Portion N-B</li> <li>The Contractor was reminded to clear the water inside the drip tray.</li> <li>Works Area - Portion N-A</li> <li>The Contractor was reminded to provide chemical labels to the oil drum and place in drip tray.</li> </ul>
30 September 2015	<ul> <li>Works Area - Portion N-C</li> <li>Idle stockpile should be covered.</li> <li>Works Area - Portion N-B</li> <li>Water spraying should be applied to cover areas where dust is likely to be created.</li> </ul>	<ul> <li>Works Area - Portion N-C</li> <li>The Contractor was reminded to cover the idle stockpile.</li> <li>Works Area - Portion N-B</li> <li>The Contractor was reminded to provide water spraying to areas where dust is likely to be created.</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 include mainly construction wastes (inert and non-inert) and recyclable materials. Reference has been made to the waste flow table prepared by the Contractor (*Appendix L*). The quantities of different types of wastes are summarized in *Table 2.10*.

#### Table 2.10Quantities of Different Waste Generated in the Reporting Month

Month/Year	Inert Construction	Imported Fill (tonnes)		Non-inert Construction	Recyclable Materials (c)	Chemical Wastes	Marine Sediment (m <sup>3</sup> )			
	Waste <sup>(a)</sup> (tonnes)		Waste Re- used (tonnes)	Waste <sup>(b)</sup> (tonnes)	(kg)	(kg)	Category L	Category M (M <sub>p</sub> & M <sub>f</sub> )		
September 2015	9,555	0	0	195	300	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	Remarks
Environmental Permit	EP-354/2009/D	13 March 2015	Throughout the Contract	HyD	Application for VEP on 3 March 2015 to supersede EP-354/2009/C
Construction Dust Notification	363510	19 August 2013	Throughout the Contract	DBJV	-
Chemical Waste Registration	5213-422-D2516-01	10 September 2013	Throughout the Contract	DBJV	-
Construction Waste Disposal Account	7018108	28 August 2013	Throughout the Contract	DBJV	Waste disposal in Contract No. HY/2012/08
Waste Water Discharge License	WT00017707-2013	18 November 2013	30 November 2018	DBJV	For site WA18
Waste Water Discharge License	WT00019248-2014	5 June 2014	30 June 2019	DBJV	For site Portion N6 and Reclamation Area E
Construction Noise Permit	GW-RW0350-15	14 July 2015	13 December 2015	DBJV	For site WA23
Construction Noise Permit	GW-RW0140-15	29 March 2015	28 September 2015	DBJV	For Portion N6
Construction Noise Permit	GW-RW0474-15	29 September 2015	28 March 2016	DBJV	For Portion N6
Construction Noise Permit	GW-RW0311-15	20 July 2015	19 October 2015	DBJV	For Dredging and Reclamation Works
Construction Noise Permit	GW-RW0150-15	1 April 2015	30 September 2015	DBJV	For GI Works at Southern Landfall
Construction Noise Permit	GW-RW1007-15	16 September 2015	13 March 2016	DBJV	For GI Works at Southern Landfall
Notes:					
HyD = Highways Departme	nt				
DBJV = Dragages - Bouygue	s Joint Venture				
VEP = Variation of Environn	nental Permit				

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

#### 2.7 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

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

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

## 2.8 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

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

Cumulative statistics are provided in *Appendix K*.

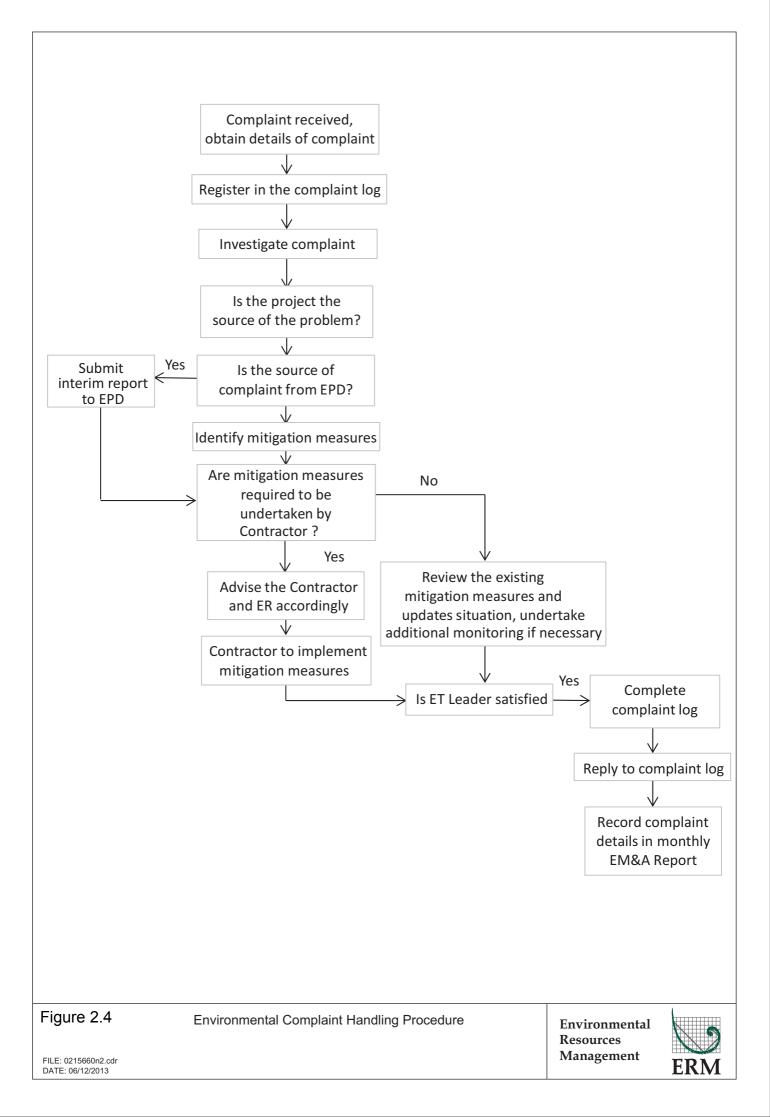
#### 2.9 SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

The Environmental Complaint Handling Procedure is provided in Figure 2.4.

No environmental complaint was received in the reporting period.

No notification of summons and prosecution were received in the reporting period.

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



#### 3.1 CONSTRUCTION ACTIVITIES FOR THE COMING MONTH

As informed by the Contractor, the major works for the Project in October 2015 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;

- Installation of Tower Crane at Works Area Portion N-C;
- Base Slab Construction for Ventilation Shaft at Works Area Portion N-C;
- TBM Tunnel Works at Works Area Portion N-B; and
- Modification and Maintenance Works for Slurry Treatment Plant at Works Area Portion N-C.

#### 3.2 KEY ISSUES FOR THE COMING MONTH

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of October 2015 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 October 2015 is provided in *Appendix F*.

#### 4.1 CONCLUSIONS

This Twenty-third Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 30 September 2015, in accordance with the Updated EM&A Manual and the requirements of EP-354/2009/D.

Air quality (including 1-hour TSP and 24-hour TSP) and dolphin monitoring were carried out in this reporting month. No Action Level or Limit Level exceedances were recorded in the air quality monitoring of this reporting month.

A total of seven (7) groups of fifty-four (54) Chinese White Dolphin sightings were recorded during the two sets of surveys in September 2015. All seven sightings were made in NWL during the two sets of surveys in September 2015. All seven sightings were made on primary lines during on-effort search. One of the dolphin groups was associated with an operating purseseiner near Lung Kwu Chau. No unacceptable impact from the construction activities of the TM-CLKL Northern Connection Sub-sea Tunnel Section on Chinese White Dolphins was noticeable from general observations during the dolphin monitoring in this reporting month.

Environmental site inspection was carried out five (5) times in September 2015. Recommendations on remedial actions recommended for the deficiencies identified during the site audits were properly implemented by the Contractor.

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

No environmental complaint was received during the reporting period.

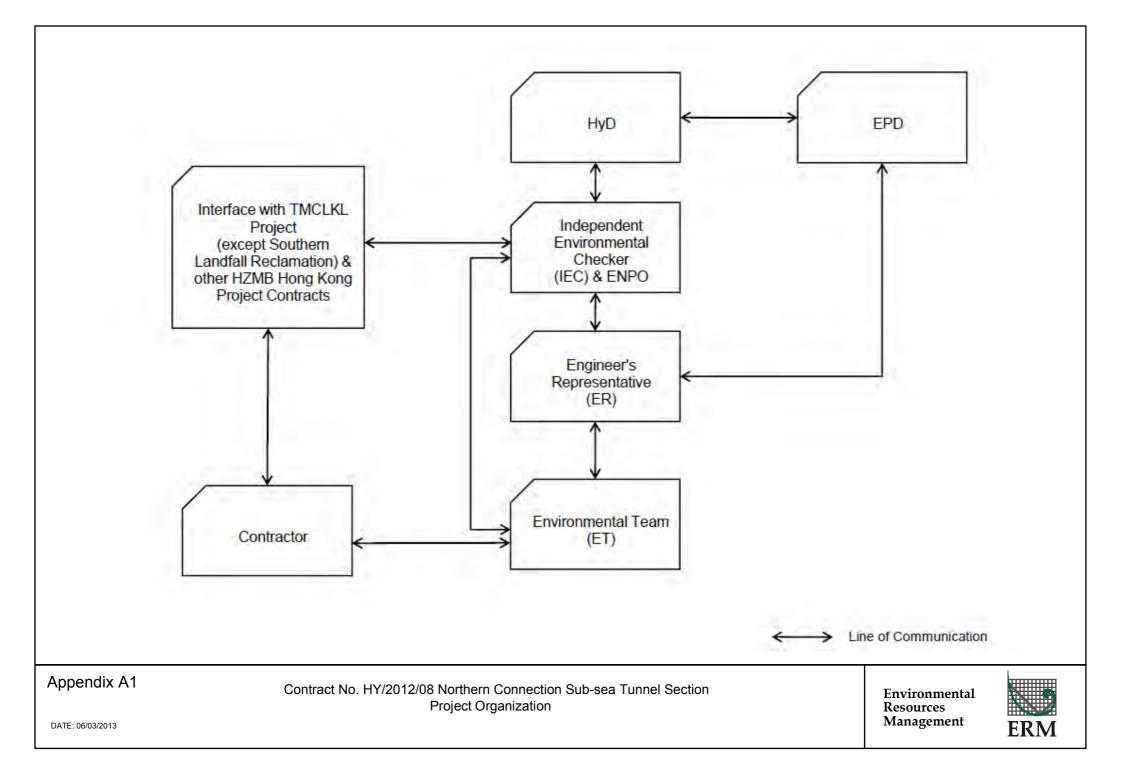
No summons/ prosecution was received during the reporting period.

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

4

Appendix A

Project Organization for Environmental Works



Appendix B

Construction Programme

ity ID	Activity Name		Orig	Planned	Planned	Current Start								
			Dur		Finish		Finish	Jun Jul		2015 Sep	Oct	Nov	Dec	201 Jar
		on Sub-Sea Tunnel Section												
Contract Date	es nent and Compl	etion Dates												
KD060	KD06 - Completion of S		0		08-Dec-15		02-Mar-16*						🔶 KD06 -	Comp
Handover Da	te													
HD020	Portions: N8A, N8B(abo	ve +3), N8C	0		08-Dec-15		02-Mar-16*						Portion	is: N8A
General Subm	nissions ign Submission:											1		
	r Roadworks & P													
DD68370	SO's Review		35	18-Sep-14	22-Oct-14	22-Dec-14A	15-Jul-15A							
(G6) IFA for T	Unnel GBP		35	00 Am 14	00. km 14	03-Jul-14A	29-Sep-15		1		1			
DD70760	SOS Review SO Approval with Condit	ion R eceived	0	29-Apr-14	02-Jun-14 03-Jun-14	03-Jul-14A	29-Sep-15	-						
Construction							20 000 10					1		
Northern Lan	ndfall													
	nation (Phase 1)								·			!		
Constructio	n						_							
Reclamati														
		one D1 - (CH205 to 255) to +6mPD	8	09-Nov-15	17-Nov-15	01-Sep-15A	12-Dec-15					📃 Su	rcharge Rem	ioval -
NRC15180		one D1 - (CH255 to 305) to +6mPD	7	24-Nov-15	01-Dec-15	19-Dec-15A	24-Dec-15						Surcharge	Remo
NRC15190	Surcharge Period - Zone		180	19-Nov-14	17-May-15	03-Jun-15A	06-Jul-15A	urcharge Period - Zone D1						Ì
NRC15200	Surcharge Removal - Zo Preparation for Portion		6	18-May-15 02-Dec-15	26-May-15 08-Dec-15	03-Jun-15A 	06-Jul-15A 04-Jan-16	Surcharge Removal - Zon	е ГЛ - (CH305	d to 355)			Prepara	ration f
NRC15201	Preparation for Portion Portion Portion N8 Handover		0	02-0-00-10	08-Dec-15	-10-10-10	04-Jan-16						<ul> <li>Prepara</li> <li>Portion</li> </ul>	
Zone D2			V		10 000-10		er dan 10		·					
Reclamation														
	Surcharge Removal - Z		9	01-Jun-15	10-Jun-15	15-Jun-15A	08-Jul-15A	Surcharge Removal			· .			
NRC15240	Surcharge Removal - Z	one D2 - (CH405 to 443)	9	11-Jun-15	22-Jun-15	15-Jun-15A	10-Jul-15A	Surcharge Ren	noval - Zone D	02 - (CH405	to 443)			
Zone C1 Reclamation	on													
NRC15260	Surcharge Removal - Z	one C1 - (CH443 to 493)	10	06-May-17	17-May-17	27-Jun-15A	07-Aug-15A					1		
NRC15270	Surcharge Period - Zone	e C1 - (CH493 to 543)	180	13-Nov-14	12-May-15	31-Dec-14A	28-Jun-15A	charge Period - Zone C1 - (C	CH493 to 543)					
NRC15280	Surcharge Removal - Z	one C1 - (CH493 to 543)	10	06-May-17	17-May-17	22-Jul-15A	14-Aug-15A							
Zone C2														
Reclamation	on Surcharge Period - Zone	e C2 - (CH543 to 598)	180	05-Nov-14	03-May-15	31-Dec-14A	28-Jun-15A	rge Period - Zone C2 - (CH5	43 to 598)					
Zone B														
Vertical Se				01 0	10.000 14		10 14 15 1							
NRC11400		oing - Zone B - (CH598 to 648) oing - Zone B - (CH648 to 698)	8	01-Sep-14 11-Sep-14	10-Sep-14 19-Sep-14	21-Oct-14A 20-Nov-14A	16-Jul-15A 16-Jul-15A							
NRC11410		ping - Zone B - (CH698 to 738)	8	20-Sep-14	29-Sep-14	02-Dec-14A	16-Jul-15A							
Reclamatio					20 000 11									
NRC11990		H598 to 648) to +10mPD	6	29-Aug-15	04-Sep-15	20-Sep-14A	22-Sep-14A			Public Fill	- Zone B -	(CH598 to €	48) to +10mP	PD
NRC15310	Surcharge Period - Zone	B - (CH598 to 648)	180	05-Sep-15	02-Mar-16	22-Sep-14A	20-Mar-15A							
NRC15320	Surcharge Removal - Z	one B - (CH598 to 648)	10	03-Mar-16	14-Mar-16	29-Sep-15	10-Oct-15							
Zone A1	<b>0</b> 19													
Reclamation	Surcharge Removal - Z	one A 1 - (CH738 to 793)	10	26-May-15	06-Jun-15	16-Jul-15A	16-Jul-15A	Surcharge Removal,-	Zone A1 - [CI	1738 to 793)		1		
Zone A2														
Sloping Se NRC12760	eawall SS - Armour Rock - Zor	e A2 - (CH843 to 893)	4	14-Jun-14	19-Jun-14	16-Apr-15A	29-Sep-15					1		
NRC12770	SS - Armour Rock - Zor		4	19-Jun-14	24-Jun-14	16-Apr-15A	30-Sep-15							
Reclamation		. (,												
NRC15400	Surcharge Removal - Z	one A2 - (CH738 to 956)	10	08-Jun-15	19-Jun-15	08-Jun-15A	02-Sep-15A	Surcharge Remo	oval - Zone A 2	<del>= (01178</del> 8 to	956)			
Zone F									·					
CH184 to ( A6416230	CH231 F - Anchor wall Installation	on - C H184 to CH231	4	10-Feb-14	13-Feb-14	29-Sep-15	03-Oct-15							
A6416290		PD & G2 Installation to Anchor Wall- CH184 to CH231	3	14-Feb-14	16-Feb-14	16-Mar-15A	05-Oct-15							
A6416295		mPD & G1 Installation to Anchor Wall- CH184 to CH231	2	17-Feb-14	18-Feb-14	16-Mar-15A	06-Oct-15							
A6416300	F - Backfilling up to +6.0	mPD to Anchor Wall - CH184 to CH231	2	19-Feb-14	20-Feb-14	07-Oct-15	08-Oct-15					!		
A6416400	F - Backfilling to +6.0ml	PD to Existing Seawall - CH184 to CH231	1	21-Feb-14	21-Feb-14	09-Oct-15	09-Oct-15	1						
CH231 to (							-							
	F - Backfilling up to +6.0		2	17-Apr-14	18-Apr-14	03-Oct-15	04-Oct-15							
A6416310 A6416480	F - Anchor wall Installati	n - CH231 to CH278	4	22-Apr-14 26-Apr-14	25-Apr-14 28-Apr-14	05-Oct-15 03-Mar-15A	08-Oct-15		·					
70410480		mPD & G2 Installation to Anchor Wall- CH231 to CH278 mPD & G1 Installation to Anchor Wall - CH231 to CH278	2	26-Apr-14 29-Apr-14	28-Apr-14 30-Apr-14	03-Mar-15A 10-Mar-15A	10-Oct-15							
	up t0 +0.0	mPD to Anchor Wall - CH231 to CH278	2	01-May-14	02-May-14	11-Oct-15	12-Oct-15				1			
A6416490 A6416500	F - Backfilling up to +6.0			03-May-14	03-May-14	13-Oct-15	13-Oct-15					1		
A6416490		PD to Existing Seawall - CH231 to CH278												
A6416490 A6416500 A6416510	F - Backfilling to +6.0ml	PD to Existing Seawall - CH231 to CH278								1.1				
A6416490 A6416500	F - Backfilling to +6.0ml	PD to Existing Seawall - CH231 to CH278 mPD - CH278 to CH327	2	12-Apr-14	13-Apr-14	01-Oct-15	02-Oct-15							
A6416490 A6416500 A6416510 CH278 to (	F - Backfilling to +6.0ml	mPD - CH278 to CH327	2	12-Apr-14 26-Apr-14	13-Apr-14 30-Apr-14	01-Oct-15 09-Oct-15	02-Oct-15 13-Oct-15							
A6416490 A6416500 A6416510 CH278 to ( A6416220	F - Backfilling to +6.0ml CH327 F - Backfilling up to +6.0 F - Anchor wall Installati	mPD - CH278 to CH327												
A6416490           A6416500           A6416510           CH278 to 0           A6416220           A6416340           A6416520	F - Backfilling to +6.0ml CH327 F - Backfilling up to +6.0 F - Anchor wall Installati	mPD - CH278 to CH327 on - CH278 to CH327 nPD & G2 Installation to Anchor Wall - CH278 to CH327	4	26-Apr-14 01-May-14	30-Apr-14 03-May-14	09-Oct-15 03-Mar-15A	13-Oct-15 14-Oct-15			Date	Revis	on	Checked	
A6416490           A6416500           A6416510           CH278 to (           A6416220           A6416340           A6416520           e1 of 12	F - Backfilling to +6.0ml CH327 F - Backfilling up to +6.0 F - Anchor wall Installati F - Backfilling up to 0.0n	mPD - CH278 to CH327 on - C H278 to CH327 nPD & G2 Installation to Anchor Wall - CH278 to CH327 Planned Bar	4 3 MCLK - No	26-Apr-14 01-May-14	30-Apr-14 03-May-14 ection Sub-S	09-Oct-15 03-Mar-15A Sea Tunnel S	13-Oct-15 14-Oct-15	香史士	08-/	Feb-14 TM Apr-14 TM Aug-14 TM	ICLK/DBJ/GEN/PI	RG/98507 Rev. B RG/98507 Rev. C	WYu S SPa V CLa V	Appro SPo WYu WYu
A6416490           A6416500           A6416510           CH278 to 0           A6416220           A6416340           A6416520	F - Backfilling to +6.0ml CH327 F - Backfilling up to +6.0 F - Anchor wall Installati F - Backfilling up to 0.0n	mPD - CH278 to CH327 on - C H278 to CH327 nPD & G2 Installation to Anchor Wall - CH278 to CH327 Planned Bar	4 3 MCLK - No	26-Apr-14 01-May-14	30-Apr-14 03-May-14 ection Sub-S	09-Oct-15 03-Mar-15A	13-Oct-15 14-Oct-15		08-/	Feb-14 TM Apr-14 TM Aug-14 TM	ICLK/DBJ/GEN/PI ICLK/DBJ/GEN/PI	RG/98507 Rev. B	WYu S SPa V CLa V	SPo WYu
A6416490           A6416500           A6416510           CH278 to (           A6416220           A6416340           A6416520           e1 of 12	F - Backfilling to +6.0ml CH327 F - Backfilling up to +6.0 F - Anchor wall Installati F - Backfilling up to 0.0n DWPF 15W39	mPD - CH278 to CH327 on - C H278 to CH327 IPD & G2 Installation to Anchor Wall - CH278 to CH327 Planned Bar Planned Bar - Critical	4 3 MCLK - No	26-Apr-14 01-May-14 Orthern Conne Vorks Program	30-Apr-14 03-May-14 ection Sub-S	09-Oct-15 03-Mar-15A Gea Tunnel S F) - Three Mo	13-Oct-15 14-Oct-15 Section onths	を 推 変 た の な の た の の な の の た の の の の の の の の の の の の の	08-/ 28-/ 10-	Feb-14 TM Apr-14 TM Aug-14 TM	ICLK/DBJ/GEN/PI ICLK/DBJ/GEN/PI	RG/98507 Rev. B RG/98507 Rev. C	WYu S SPa V CLa V	SPo WYu

	Activity Name		Orig Dur	Planned Start	Planned Finish	Current Start	Current Finish	Jun Jul Aug	2015 Sep	Oct Nov	Dec J
A6416530	F - Backfilling up to +3.0mPD & G1 Installation to Ar		3	04-May-14	06-May-14	10-Mar-15A	15-Oct-15				
A6416540	F - Backfilling up to +6.0mPD to Anchor Wall - CH2		3	07-May-14	09-May-14	16-Oct-15	18-Oct-15				
A6416550	F - Backfilling to +6.0m PD to Existing Seawall - CH	278 to CH327	1	10-May-14	10-May-14	19-Oct-15	19-Oct-15				
CH327 to C A6416170	F - Backfilling up to +6.0mPD - CH327 to CH381		3	04-Apr-14	06-Apr-14	28-Sep-15	30-Sep-15		-		
A6416370	F - Anchor wall Installation - CH327 to CH381		3	02-May-14	05-May-14	14-Oct-15	16-Oct-15				
A6416560	F - Backfilling up to 0.0mPD & G2 Installation to And	chor Wall - CH327 to CH381	3	06-May-14	08-May-14	03-Mar-15A	17-Oct-15				
A6416570	F - Backfilling up to +3.0mPD & G1 Installation to Ar	nchor Wall - CH327 to CH381	3	09-May-14	11-May-14	10-Mar-15A	18-Oct-15				
A6416580	F - Backfilling up to +6.0mPD to Anchor Wall - CH3	27 to CH381	2	12-May-14	13-May-14	19-Oct-15	20-Oct-15				
A6416590	F - Backfilling to +6.0m PD to Existing Seawall - CH	327 to CH381	1	14-May-14	14-May-14	21-Oct-15	21-Oct-15				
ox Culvert E											
Construction	n Culvert Outfall										
A1000	Installation of temporary bulk head		26	10-Aug-15	08-Sep-15	30-Dec-15	29-Jan-16		Insta	lation of temporary bulk head	ł
A1010	Removal of public fill at outfall area		4	09-Sep-15	12-Sep-15	30-Jan-16	03-Feb-16		Re Re	moval of public fill at outfall a	rea
A1020	Cut sheet pile wall below water level by diver		18	14-Sep-15	06-Oct-15	04-Feb-16	02-Mar-16			Cut sheet pile wall bel	ow water level by
A1030	Removal of temporary seawall block		3	07-Oct-15	09-Oct-15	03-Mar-16	05-Mar-16			Removal of tempora	ry seawall block
A1040	Preparation & pour blinding concrete base of box cul	vert outfall	8	10-Oct-15	19-Oct-15	07-Mar-16	15-Mar-16			Preparation & po	our blinding conc
A1050	Install precast culvert element by barge (5 nos.)		21	20-Oct-15	13-Nov-15	16-Mar-16	13-Apr-16			Install	precast culvert
A1060	Concreting in-situ Top Slab and sticth joint		12	14-Nov-15	27-Nov-15	14-Apr-16	27-Apr-16				Concreting in-si
A1070	Removal of temporary bulk head		18	28-Nov-15	18-Dec-15	28-Apr-16	20-May-16			-	Remov
	Land Section							· · · · · · · · · · · · · · · · · · ·			
A6416890	Bored Pile Construction - A33 to A54 (3 Rigs) - 20 o	ut of 22 piles	21	17-Oct-14	10-Nov-14	03-Oct-14A	30-Nov-15A				
A6416891	Bored Pile Construction - A33 to A54 (3 Rigs) - 22 or	ut of 22 piles	11	11-Nov-14	22-Nov-14	27-Jul-15A	07-Aug-15A		ĺ		
A6416891 EOT	Inclement Weather - Bored Pile Construction - A33 t	to A54 (3 Rigs) - 22 out of 22 pi	les 5	24-Nov-14	28-Nov-14	08-Aug-15A	13-Aug-15A	ut of 22 piles			
A6418180	Ch010-100 - Pump test for Excavation		24	12-Feb-15	18-Mar-15	27-Jul-15A	22-Aug-15A	r Excavation			
A6418190	Ch010-100 - Toe Grouting (if required)		24	19-Mar-15	20-Apr-15	24-Aug-15A	19-Sep-15A	Toe Grouting (if required)			
ELS & Stru	cture										
	41 CJ to Pile A41/A39 CJ										
A1610	Installation of strut S1		5	08-May-15	13-May-15	20-Aug-15A	02-Oct-15	allation of strut S1			
A1620	Excavation to FEL		5	14-May-15	19-May-15	03-Oct-15	08-Oct-15	Excavation to FEL			
Box Culv	vert Structure										
A1630	Pile cap construction		10	27-May-15	06-Jun-15	15-Oct-15	27-Oct-15	Pile cap construction			
A1640	Base slab construction including kicker		6	19-Jun-15	26-Jun-15	09-Nov-15	14-Nov-15	Base slab construction	including kic	ker	
A1641	Removal of strut S1		4	27-Jun-15	02-Jul-15	16-Nov-15	19-Nov-15	Removal of strut S1			
A1642	System formworks delivery & setup		14	03-Jul-15	18-Jul-15	20-Nov-15	05-Dec-15	System formv	orks deliver	y & setup	
A1650	Walls & top slab construction		6	20-Jul-15	25-Jul-15	07-Dec-15	12-Dec-15	Walls & top	slab constr	uction	
A1660	Removal of strut S2 & Backfilling up to required leve	əl	6	03-Aug-15	08-Aug-15	21-Dec-15	29-Dec-15	Rem	oval of strut	\$2 & Backfilling up to require	dlevel
Pile A45/A ELS	43 CJ to Pile A43/A41 CJ										
A1510	Excavation to 0.5m below strut S1		5	08-May-15	13-May-15	07-Aug-15A	18-Aug-15A	avation to 0.5m below strut S1			
A1520	Installation of strut S1		5	14-May-15	19-May-15	18-Aug-15A	06-Oct-15	nstallation of strut S1			
A1530	Excavation to FEL		5	20-May-15	26-May-15	09-Oct-15	14-Oct-15	Excavation to FEL			
Box Culv	vert Structure							N			
A1540	Pile cap construction		10	08-Jun-15	18-Jun-15	28-Oct-15	07-Nov-15	Pile cap construction			
A1550	Base slab construction including kicker		6	27-Jun-15	04-Jul-15	16-Nov-15	21-Nov-15	Base slab construct		kicker	
A1551	Removal of strut S1		4	06-Jul-15	09-Jul-15	23-Nov-15	26-Nov-15	Removal of strut s			
A1560	Walls & top slab construction		6	27-Jul-15	01-Aug-15	14-Dec-15	19-Dec-15		top slab cor		
A1570	Removal of strut S2 & Backfilling up to required leve	91	6	10-Aug-15	15-Aug-15	30-Dec-15	06-Jan-16	R	emoval of st	ut S2 & Backfilling up to requ	ired level
Pile A47/A ELS	45 CJ to Pile A45/A43 CJ							······			
A1400	Excavation to 0.5m below strut S2		4	30-Apr-15	05-May-15	21-Jul-15A	25-Jul-15A	ation to 0.5m below strut S2			
A1410	Installation of strut S2		5	06-May-15	11-May-15	22-Jul-15A	28-Jul-15A	allation of strut S2	-		
A1420	Excavation to 0.5m below strut S1		5	14-May-15	19-May-15	29-Sep-15	05-Oct-15	excavation to 0.5m below strut S1			
A1430	Installation of strut S1		5	20-May-15	26-May-15	07-Oct-15	12-Oct-15	Installation of strut S1			
A1440	Excavation to FEL		5	27-May-15	01-Jun-15	15-Oct-15	20-Oct-15	Excavation to FEL			
	vert Structure										
A1450	Pile cap construction		10	19-Jun-15	02-Jul-15	09-Nov-15	19-Nov-15	Pile cap construction			
A1460	Base slab construction including kicker		6	06-Jul-15	11-Jul-15	23-Nov-15	28-Nov-15	Base slab constru		ing kicker	
A1461 A1470	Removal of strut S1		4	13-Jul-15	16-Jul-15	30-Nov-15	03-Dec-15	Removal of str			
A1470	Walls & top slab construction Removal of strut S2 & Backfilling up to required level	5	6	03-Aug-15	08-Aug-15 22-Aug-15	21-Dec-15 07-Jan-16	29-Dec-15 13-Jan-16			construction	auirod laura
	47 CJ to Pile A47/A45 CJ		0	GI -yuy-13	22" AUY" 10	07-041-10	10-0ai F 10			strut S2 & Backfilling up to re	un eu 1evel
ELS	47 CJ (0 Pile A47/A45 CJ										
A1310	Excavation to 0.5m below strut S2		4	06-May-15	09-May-15	18-Jul-15A	25-Jul-15A	vation to 0.5m below strut \$2			
A1320	Installation of strut S2		5	11-May-15	15-May-15	21-Jul-15A	21-Jul-15A	stallation of strut S2			
A1330	Excavation to 0.5m below strut S1		5	20-May-15	26-May-15	06-Oct-15	10-Oct-15	Excavation to 0.5m below strut S1			
A1340	Installation of strut S1		5	27-May-15	01-Jun-15	13-Oct-15	17-Oct-15	Installation of strut S1	-		
A1350	Excavation to FEL		5	02-Jun-15	06-Jun-15	22-Oct-15	27-Oct-15	Excavation to FEL			
f 12	Planned	d Bar	MCLK - Nor	thern Conn	ection Sub-S	Sea Tunnel S	ection		Date 12-Feb-14		Checked Ap /Yu SPo
	Planne	d Bar - Critical						▲ 寶嘉	08-Apr-14 28-Aug-14 10-Jun-15	TMCLK/DBJGEN/PRG/98507 Rev.B S TMCLK/DBJGEN/PRG/98507 Rev.C C TMCLK/DBJGEN/PRG/98507 Rev.F W	La WYu
D: TMCLK_D	WPF 15W39	1 I.	Detailed W/	orke Program	mme (Rov I	-) - Three Ma	nthe 🔽 🗖	港只加			
D: TMCLK_D e: 27-Sep-15	◆ ◆ Planned		Detailed Wo	Ū.	mme (Rev. F I Programme	,	onths	港貝方市 Dragages HongKong	)		

y ID	Activity Name	Orig Dur	Planned Start	Planned Finish	Current Start	Current Finish	2015
Box Cu	Ivert Structure						Jun Jul Aug Sep Oct Nov Dec
A1360	Pile cap construction	10	03-Jul-15	14-Jul-15	20-Nov-15	01-Dec-15	Pile cap construction
A1370	Base slab construction including kicker	6	15-Jul-15	21-Jul-15	02-Dec-15	08-Dec-15	Base slab construction including kicker
A1371	Removal of strut S1	4	22-Jul-15	25-Jul-15	09-Dec-15	12-Dec-15	Removal of strut S1
A1380	Walls & top slab construction	6	10-Aug-15	15-Aug-15	30-Dec-15	06-Jan-16	Walls & top slab construction
A1390	Removal of strut S2 & Backfilling up to required level	6	24-Aug-15	29-Aug-15	14-Jan-16	20-Jan-16	Removal of strut S2 & Backfilling up to required lev
Pile A52/	A49 CJ to Pile A49/A47 CJ						
ELS		ļ		,			
A1220	Excavation to 0.5m below strut S2	4	11-May-15	14-May-15	16-Jul-15A	18-Jul-15A	cavation to 0.5m below strut S2
A1230	Installation of strut S2	5	15-May-15	20-May-15	17-Jul-15A	25-Jul-15A	Installation of strut S2
A1240	Excavation to 0.5m below strut S1	5	27-May-15	01-Jun-15	12-Oct-15	16-Oct-15	Excavation to 0.5m below strut S1
A1250	Installation of strut S1	5	02-Jun-15	06-Jun-15	19-Oct-15	24-Oct-15	Installation of strut S1
A1260	Excavation to FEL	5	08-Jun-15	12-Jun-15	28-Oct-15	02-Nov-15	Excavation to FEL
	Ivert Structure						
A1270	Pile cap construction	10	22-Jul-15	01-Aug-15	09-Dec-15	19-Dec-15	Pile cap construction
A1280	Base slab construction including kicker	6	03-Aug-15	08-Aug-15	21-Dec-15	29-Dec-15	Base slab construction including kicker
A1281	Removal of strut S1	4	10-Aug-15	13-Aug-15	30-Dec-15	04-Jan-16	Removal of strut S1
A1290	Walls & top slab construction	6	17-Aug-15	22-Aug-15	07-Jan-16	13-Jan-16	Valls & top slab construction
A1300	Removal of strut S2 & Backfilling up to required level	6	31-Aug-15	05-Sep-15	21-Jan-16	27-Jan-16	Removal of strut S2 & Backfilling up to required I
A1670	Preparation for TempAccess Road for N8 handvoer	24	07-Sep-15	06-Oct-15	28-Jan-16	02-Mar-16	Preparation for Temp Access Road
	Marine Section						· · · · · · · · · · · · · · · · · · ·
Foundation A1296	on Preboring - 16 nos (P105 - P120) - Rig 1	40	18-May-15	06-Jul-15	02-Jul-15A	11-Aug-15 A	Preboring - 16 nos (P105 - P12), - Rig 1
A1297	H-beam installation & Concreting - 16 nos (P105 - P120)	40	21-May-15	09-Jul-15	21-Sep-15A	23-Oct-15	H-beam installation & Concreting - 16 nos (P105 - P120)
A1237	Preboring - 20 nos (P65 - P84) - Rig 3	50	07-Jul-15	02-Sep-15	03-Aug-15A	05-Nov-15	
					-		Preboring - 20 nos (P65 - P84) - Rig 3
A1455	H-beam installation & Concreting - 20 nos (P65 - P84)	50	10-Jul-15	05-Sep-15	23-Sep-15A	15-Dec-15	H-beam installation & Concreting - 20 nos (P65
A4200	Preboring - 20 nos (P85 - P104) - Rig 1	50	07-Jul-15	02-Sep-15	10-Aug-15A	04-Nov-15	Preboring - 20 nos (P85 - P104) - Rig 1
A4210	H-beam installation & Concreting - 20 nos (P85 - P104)	50	10-Jul-15	05-Sep-15	21-Sep-15A	07-Nov-15	H-beam installation & Concreting - 20 nos (P85 -
ELS & Str A4201	Cofferdam closing of Ch100-250	28	01-Jun-15	04- Jul- 15	29-Sep-15	02-Nov-15	Coffeedam closing of Ch100 0F0
A4201	Dewatering well installation Ch180-250	12	19-Jun-15	04-Jul-15 04-Jul-15	29-Sep-15 19-Oct-15	02-Nov-15	Cofferdam closing of Ch100-250
							Dewatering well installation Ch180-250
A4203	Dewatering well installation Ch100-180	12	06-Jul-15	18-Jul-15	03-Nov-15	16-Nov-15	Dewatering well installation Ch100-180
A4204	1st Pumping test	18	20-Jul-15	08-Aug-15	17-Nov-15	07-Dec-15	1st Pumping test
A4211	Toe grouting Ch100-250	95	07-Sep-15	31-Dec-15	16-Dec-15	19-Apr-16	
Ch250-380 A4251	Marine Section Installation of Dewatering & Observation Well Ch 250-380	23	04-Nov-15	30-Nov-15	24-Nov-15	19-Dec-15	
A4450	1st Pumping Test & Analysis	17	01-Dec-15	19-Dec-15	21-Dec-15	12-Jan-16	instance.uoito
A4451	Toe Grouting	106	21-Dec-15	07-May-16	13-Jan-16	28-May-16	
		100	21-060-10	07-1Way-10	13-3di - 10	20-May-10	
A1302	0 Prebored H-piles Preboring - 16 nos (P49 - P64) - Rig 1	40	03-Sep-15	22-Oct-15	20-Aug-15A	16-Nov-15	Preboring - 16 nos (P49 - P6
A1304	H-beam installation & Concreting - 16 nos (P49 - P64)	40	07-Sep-15	26-Oct-15	05-Nov-15	21-Dec-15	H-beam installation & Con
A1306	Rig 1 Demobilization	0	23-Oct-15		17-Nov-15		Rig 1 Demobilization
A4230	Preboring - 20 nos (P29 - P48) - Rig 3	50	03-Sep-15	03-Nov-15	06-Nov-15A	23-Nov-15	Preboring - 20 nos (P29
A4230	H-beam installation & Concreting - 20 nos (P29 - P48)	50	07-Sep-15	06-Nov-15	10-Nov-15	09-Jan-16	H-beam installation &
A4240 A4250	Rig 2 Demobilization	0	04-Nov-15	00-1407-10	24-Nov-15	55-0air 10	H-Deam Installation &
		U	CI =VUVI -+-0		CH-100-10		
Ch320-36 A1307	0 Prebored H-piles Predrilling - 6 nos	18	15-Jun-15	07-Jul-15	15-Jun-15A	07-Jul-15A	Predrilling - 6 nos
A1308	Current Steel Bridge location available	0		02-Sep-15		26-Sep-15A	Currep Steel Bridge location available
A1309	Predrilling - 3 nos	9	03-Sep-15	12-Sep-15	12-Oct-15	22-Oct-15	Predrilling - 3 nos
A1312	Preboring - 14 nos (C13-C28) - Rig 2	35	14-Sep-15	27-Oct-15	14-Nov-15	24-Dec-15	Preboring - 14 nos (C13-C
A1314	H-beam installation & Concreting - 14 nos (C13-C28)	35	17-Sep-15	30-Oct-15	18-Nov-15	30-Dec-15	H-beam installation & Co
A1314 A1315	Preboring - 6 piles (P9-12, P15-16) - Rig 2	18	28-Oct-15	17-Nov-15	28-Dec-15	18-Jan-16	_ į į į į į į į į į į į į į į į
							Pr/eboring - 6 pile
A1316	H-beam Installation & Concreting - 6 piles (P9-12, P15-16)	18	31-Oct-15	20-Nov-15	31-Dec-15	21-Jan-16	H-beam Installa
Ch360-38	0 Prebored H-piles Preboring - 10 piles (P1-P4B, P5-P6, P7-P8B) - Rig 3	36	15-May-15	27-Jun-15	22-Jul-15A	12-Aug-15A	Preboring - 10 piles (P1-P4B, P5-P6, P7-P8B) - Rig 3
A1034	H-beam Installation & Concreting - 10 piles (P1-P4B, P5,P6,P7-P8B)	36	19-May-15	02-Jul-15	15-Aug-15A	21-Aug-15A	Heboarn 10 bites (F1F46, F3-F7F6) - F1F3 H-beam Installation & Concreting - 10 piles (P1-P48, P5,P6,P7-P88)
			-				
	Steel Bridge Landing Platform Construction	18	03-Jul-15	23101-15	25-AUG-154		Steel Bridge Landing Platform Construction
A1065	Steel Bridge Landing Platform Construction	18	03-Jul-15	23-Jul-15	25-Aug-15A	25-Sep-15A	Steel Bridge Landing Plaform Construction

	Foundatio	on & ELS							
	Stage 1								
	A1090	Pre-bore Rig Mobilization	1	0	30-May-15		07-Sep-15A		Pre-bore Rig Mobilization
	A1100	Preboring - 9 nos (C1-7,C	C9-10) - Rig 2	27	30-May-15	02-Jul-15	30-May-15A	02-Oct-15	Preboring - 9 nos (C1+7,C9-10) - Rig 2
	A1105	H-beam installation & Co	ncreting - 9 nos (C1-7,C9-10)	29	03-Jun-15	08-Jul-15	11-Aug-15 A	08-Oct-15	H-beam installation & Concreting - 9 nos (C1-7,C9-10)
	A1120	Link bridge HB loading be	am installation (step 8)	9	09-Jul-15	18-Jul-15	15-Aug-15A	20-Aug-15A	Link bridge HB loading been installation (step 8)
	A4320	Preboring & sheet piling (	middle row 50%) - Rig 2	17	03-Jul-15	22-Jul-15	14-Sep-15A	19-Sep-15A	Preboring & sheet piling middle row 50%) - Rig 2
	A4330	Preboring & sheet piling (	west row south 50%) - Rig 2	24	10-Aug-15	05-Sep-15	09-Oct-15	06-Nov-15	Preboring & sheet piling (west row south 50%) - Rig 2
	Stage 2								
	A4340	Working platform installa	tion	9	20-Jul-15	29-Jul-15	20-Aug-15A	24-Aug-15A	Working platform installation
	A4350	Preboring - 4 nos (C8,11,	12 & C17) - Rig 2	9	30-Jul-15	08-Aug-15	24-Aug-15A	28-Aug-15A	Preboring - 4 nos (C8,11,12 & C17) - Rig 2
	A4351	H-beam installation & Co	ncreting - 4 nos (C8, 11, 12 & C17)	9	03-Aug-15	12-Aug-15	26-Aug-15A	31-Aug-15A	H-beam installation & Concreting - 4 nos (C8,11,12 & C17)
Projec	e 3 of 12 ect ID: TMCLK_DWPF 15W39 a Date: 27-Sep-15 Planned Bar Planned Bar Plande Bar Pl			-	lorthern Conn Works Progra Rolling		-) - Three Mor	nths American of the B	直線         Revision         Cheded         Approved           12-Feb-14         TMCLKDBJGEN/PRG88507         WYu         SPo           12-Feb-14         TMCLKDBJGEN/PRG88507         WYu         SPo           12-Feb-14         TMCLKDBJGEN/PRG89507 Rev.F         WYu         SPo           12-Fagages Engages Engages Contructions report         Inclusion         TMCLKDBJGEN/PRG98507 Rev.F         WYu           10-Jun-15         TMCLKDBJGEN/PRG98507 Rev.F         WYu         WYu           10-Jun-15         TMCLKDBJGEN/PRG98507 Rev.F         WYu           8-boygues Loint/Venture         gas - #dk4895         Fmkdk895

Progress as of 27-Sep-15

	Activity Name	Orig Dur	Planned Start	Planned Finish	Current Start	Current Finish				2015				201
A4360	1st Relocation of working platform	6	13-Aug-15	19-Aug-15	01-Sep-15A	01-Sep-15A	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ja
A4360 	2015/16 Dry Season	0	01-Nov-15		01-Sep-15A 01-Nov-15*	01-0ep-13A	1 1 1 1 1		1ş				Pry Season	
A4301	Install concrete blocks to support working platform	6	02-Nov-15	07-Nov-15	02-Nov-15	07-Nov-15	1 1 1	1 1 1			i i		concrete bloc	eke to ci
A4370	2nd Relocation of working platform	6	09-Nov-15	14-Nov-15	02-Nov-15	14-Nov-15						_	Relocation o	
A4300		12	16-Nov-15	28-Nov-15	05-Jan-16	18-Jan-16		   						
	Preboring - 4 nos (C13-C16) - Rig 2												Preboring	
A4400	H-beam installation & Concreting - 4 nos (C13-C16)	12	19-Nov-15	02-Dec-15	08-Jan-16	21-Jan-16	       	   	, , , , , , , , , , , , , , , , , , ,				H-beam	
A4410	Preboring for sheet piling (middle row north 50%) - Rig 2	18	03-Dec-15	23-Dec-15	22-Jan-16	18-Feb-16								Preborii
A4411	Preboring for sheet piling (west row north 50%) - Rig 2	24	24-Dec-15	23-Jan-16	19-Feb-16	17-Mar-16		   						
Land Acce A1185	ss route for CKS Steel Bridge - Preparation for dismantling	24	23-Jul-15	19-Aug-15	14-Sep-15A	25-Sep-15A				ool Dridgo	Proporation fr	r diamontli		
A4420		0	20-Aug-15	19-Aug-13	· .	23-36p-13A					Preparation fo		lg	
	Available for steel bridge relocation			00.0	26-Sep-15A	10.01145			• AV		steel bridge re			
A4430	Steel bridge relocation	12	20-Aug-15	02-Sep-15	26-Sep-15A	10-Oct-15		   		Steel br	idge relocation			
A4431	Make good for Landside Roadworks	24	03-Sep-15	02-Oct-15	18-Sep-15A	23-Sep-15A	1	   			Make goo	d for Landsi	de Roadwork: ¦	s
Miscellaneo								   						
	Manhole (IM) Inspection Manhole IM-01 to IM-04 & backfilling to +6.0mPD	12	29-Sep-15	13-Oct-15	25-Feb-16	09-Mar-16		   			Inspé	ection Manho	¢le IM-01 to IN	4-04 & 1
	Opening (SLO)						, , ,	 						
	SLO-01 to SLO-05 & backfilling to +6.0mPD	24	14-Oct-15	11-Nov-15	10-Mar-16	11-Apr-16						SLO	¦ ¦01 to SLO-08	5 & bac
Balance H	ole (BH)							   						
	BH-01 to BH-03 & backfilling to +6.0mPD	18	07-Sep-15	26-Sep-15	28-Jan-16	24-Feb-16	1	   			BH-01 to B	H-03 & back	filling to +6.0r	mPD
North Launch	ning Shaft													
_Design Subr	nission						+	   						
	or North Approach Ramp Permanent Structure	45	00.001.44	00.0 + 14	00.14 45.4	07.4	1							
DD70810	Designer to Reply RtC + Update Submission	15	06-Oct-14	22-Oct-14	28-May-15A	27-Aug-15A		   						
DD70820	Submit Updated DDA to SO/ ICE/ IPs	0	23-Oct-14		27-Aug-15A									
DD70830	ICEApproval & Issue Check Cert	18	23-Oct-14	12-Nov-14	20-Aug-15A	27-Aug-15A								
DD70840	Submit ICE Check Cert to SO	0		12-Nov-14		27-Aug-15A								
DD70850	IPs Review	28	23-Oct-14	19-Nov-14	27-Aug-15A	01-Oct-15								
DD70860	IP's No Objection Received	0		19-Nov-14		01-Oct-15								
DD70870	SO's Review	35	23-Oct-14	26-Nov-14	27-Aug-15A	03-Oct-15		   						
DD70880	SO Approval with Condition R eceived	0		26-Nov-14		03-Oct-15								
North Ventila	tion Shaft						+							
Constructio														
	lation Shaft Excavation & Base Slab			1										
A6415810	A- Capping Beam Installation (+6.0mPD)	0	15-Apr-15	15-Apr-15	04-May-15A	02-Jul-15A	m Installation	(+6.0mPD)						
A6415855	A - Vent Shaft Excavation (-12.5 to -20.0mPD) - Fill/MD/ALLUVIUM	17	15-Jun-15	06-Jul-15	15-Jun-15A	06-Jul-15A		A- Vent	Shaft Excave	ation (-12.5	to -20.0mPD)	- Fill/MD/Al	LUVIUM	
A6415860	A - Vent Shaft Excavation (-20.0 to -32.0mPD) - CDG	27	07-Jul-15	06-Aug-15	10-Jun-15A	20-Jun-15A			A- Vent	Shaft Exca	vation (-20.0 t	o -32.0mPD	) - CDG	
A6415870	A- Ring Beam Installation (-32.0mPD)	0	07-Aug-15	07-Aug-15	21-Jun-15A	24-Jun-15A			A-Ring	g Beam Ins	allation (-32.0	mPD)		
A6415875	A - Vent Shaft Excavation (-32.0 to -40.0mPD) - CDG	18	07-Aug-15	27-Aug-15	18-Aug-15A	07-Sep-15A				A- Vent S	haft Excavation	n (-32.0 to -4	0.0mPD) - C	DG
A6415880	A - Vent Shaft Excavation (-40.0mPD to -42.0mPD) - Rock	29	28-Aug-15	02-Oct-15	24-Jun-15A	17-Jul-15A					A- Vent S	haft Excava	tion (-40.0mF	D to -
A6415890	A- Vent Shaft Bottom Base Slab for TBM Re-launching	48	03-Oct-15	28-Nov-15	17-Jul-15A	14-Oct-15							A - Vent Sh	naft Bot
A6415990	A- Tympanum construction for TBM break-in/out	36	10-Oct-15	21-Nov-15	14-Jul-15A	17-Oct-15	+						.¦A- Tympanur	n cons
A6416345	North Ventilation Shaft - Steel Bell Installation	37	10-Oct-15	23-Nov-15	08-Sep-15A	31-Oct-15							¦ North Ventila	tion Sł
A6416350						12-Nov-15	-							
	North Ventilation Shaft - Steel Bell Backfilling for S882 Crossing	10	24-Nov-15	04-Dec-15	02-Nov-15								North Ve	entilatio
	North Ventilation Shaft - Steel Bell Backfilling for S882 Crossing	10	24-Nov-15	04-Dec-15	02-Nov-15								North Ve	
A6416360	North Ventilation Shaft - Shaft Flooding for S880 Arrival	6	24-Nov-15 05-Dec-15	04-Dec-15 11-Dec-15	02-Nov-15	19-Nov-15							North Ve	
A6416360		6											-	
A6416360 TMCLK VO-00 TMCLK-N6-101	North Ventilation Shaft - Shaft Flooding for S880 Arrival D8 - Construction of Viaduct Foundations at Portion N Variation Order V-008 - Issued from SOR	6 I6A		11-Dec-15		19-Nov-15							-	
A6416360 TMCLK VO-00 TMCLK-N6-101	North Ventilation Shaft - Shaft Flooding for S880 Arrival 28 - Construction of Viaduct Foundations at Portion N Variation Order V-008 - Issued from SOR ed Pile Construction	6 I6A		11-Dec-15		19-Nov-15							-	
A6416360 TMCLK VO-00 TMCLK-N6-101 Viaduct Bord Method Sta	North Ventilation Shaft - Shaft Flooding for S880 Arrival 28 - Construction of Viaduct Foundations at Portion N Variation Order V-008 - Issued from SOR ed Pile Construction	6 I6A		11-Dec-15		19-Nov-15							-	
A6416360 TMCLK VO-00 TMCLK-N6-101 Viaduct Bore Method Sta TMCLK-N6-85	North Ventilation Shaft - Shaft Flooding for S880 Arrival 28 - Construction of Viaduct Foundations at Portion N Variation Order V-008 - Issued from SOR ed Pile Construction tement	6 I6A	05-Dec-15	11-Dec-15 29-Apr-14	13-Nov-15	19-Nov-15 27-Jul-15A							-	
A6416360 TMCLK-N6-101 Viaduct Bord Method Sta TMCLK-N6-85 TMCLK-N6-86	North Ventilation Shaft - Shaft Flooding for S880 Arrival 08 - Construction of Viaduct Foundations at Portion N Variation Order V-008 - Issued from SOR ed Pile Construction tement Final Method Statement	6 16A 0 4	05-Dec-15	11-Dec-15 29-Apr-14 12-May-14	13-Nov-15	19-Nov-15 27-Jul-15A 06-Aug-15A							-	
A6416360 TMCLK VO-00 TMCLK-N6-101 Viaduct Bore Method Sta TMCLK-N6-85 TMCLK-N6-86 Bored Pile 0 G1b-7	North Ventilation Shaft - Shaft Flooding for S880 Arrival <b>D8 - Construction of Viaduct Foundations at Portion N</b> Variation Order V-008 - Issued from SOR <b>ed Pile Construction</b> <b>tement</b> Final Method Statement Method Statement - Submission for SOR Approval <b>Construction</b>	6 16A 0 4 0	05-Dec-15	11-Dec-15 29-Apr-14 12-May-14 12-May-14	13-Nov-15	19-Nov-15 27-Jul-15A 06-Aug-15A 06-Aug-15A							-	
A6416360 TMCLK-N6-101 Viaduct Bord Method Sta TMCLK-N6-85 TMCLK-N6-86 Bored Pile 0 G1b-7 TMCLK-N60	North Ventilation Shaft - Shaft Flooding for S880 Arrival D8 - Construction of Viaduct Foundations at Portion N Variation Order V-008 - Issued from SOR ed Pile Construction tement Final Method Statement Method Statement - Submission for SOR Approval Construction Pile 7 - Excavation	6 16A 0 4 0 3	05-Dec-15 08-May-14 20-May-14	11-Dec-15 29-Apr-14 12-May-14 12-May-14 22-May-14	13-Nov-15 03-Aug-15A	19-Nov-15 27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A							-	
A6416360 TMCLK VO-00 TMCLK-N6-101 Viaduct Bord Method Sta TMCLK-N6-85 TMCLK-N6-86 Bored Pile 0 G1b-7 TMCLK-N60	North Ventilation Shaft - Shaft Flooding for S880 Arrival <b>D8 - Construction of Viaduct Foundations at Portion N</b> Variation Order V-008 - Issued from SOR <b>ed Pile Construction</b> <b>tement</b> Final Method Statement Method Statement - Submission for SOR Approval <b>Construction</b>	6 16A 0 4 0	05-Dec-15	11-Dec-15 29-Apr-14 12-May-14 12-May-14	13-Nov-15	19-Nov-15 27-Jul-15A 06-Aug-15A 06-Aug-15A							-	
A6416360 TMCLK-NG-00 TMCLK-NG-101 Viaduct Bore Method Sta TMCLK-NG-85 TMCLK-NG-85 Bored Pile G1b-7 TMCLK-NG0 TMCLK-NG1 TMCLK-NG1	North Ventilation Shaft - Shaft Flooding for S880 Arrival <b>D8 - Construction of Viaduct Foundations at Portion N</b> Variation Order V-008 - Issued from SOR <b>ed Pile Construction</b> <b>tement</b> Final Method Statement Method Statement - Submission for SOR Approval <b>Construction</b> Pile 7 - Excavation Pile 7 - RCD Installation	6 16A 0 4 0 3	05-Dec-15 08-May-14 08-May-14 20-May-14 23-May-14	11-Dec-15 29-Apr-14 12-May-14 12-May-14 22-May-14 24-May-14	13-Nov-15 03-Aug-15A 14-Aug-15A 18-Aug-15A	19-Nov-15 27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A							-	
A6416360 TMCLK-N6-101 Viaduct Bord Method Sta TMCLK-N6-85 TMCLK-N6-86 Bored Pile ( G1b-7 TMCLK-N60 TMCLK-N60 TMCLK-N61 H1b-13 TMCLK-N72	North Ventilation Shaft - Shaft Flooding for S880 Arrival D8 - Construction of Viaduct Foundations at Portion N Variation Order V-008 - Issued from SOR ed Pile Construction tement Final Method Statement Method Statement - Submission for SOR Approval Construction Pile 7 - Excavation	6 16A 0 4 0 3	05-Dec-15 08-May-14 20-May-14	11-Dec-15 29-Apr-14 12-May-14 12-May-14 22-May-14	13-Nov-15 03-Aug-15A	19-Nov-15 27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A							-	
A6416360 TMCLK-NG-101 Viaduct Bord Method Sta TMCLK-NG-85 TMCLK-NG-86 Bored Pile 0 G1b-7 TMCLK-N60 TMCLK-N60 TMCLK-N61 H1b-13 TMCLK-N72 G1c-6	North Ventilation Shaft - Shaft Flooding for S880 Arrival         D8 - Construction of Viaduct Foundations at Portion N         Variation Order V-008 - Issued from SOR         ed Pile Construction         tement         Final Method Statement         Method Statement - Submission for SOR Approval         Construction         Pile 7 - Excavation         Pile 7 - RCD Installation         Pile 13 - RCD Socket Drilling	6 16A 0 4 0 3 2 4 4 4 4 4 4	05-Dec-15 08-May-14 20-May-14 23-May-14 31-May-14	11-Dec-15 29-Apr-14 12-May-14 12-May-14 22-May-14 24-May-14 05-Jun-14	13-Nov-15 03-Aug-15A 14-Aug-15A 18-Aug-15A 26-Aug-15A	19-Nov-15 27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A							-	
A6416360 TMCLK-NG-101 Viaduct Bord Method Sta TMCLK-NG-85 TMCLK-NG-85 Bored Pile ( G1b-7 TMCLK-NG0 TMCLK-NG1 H1b-13 TMCLK-N72 G1c-6 TMCLK-N655	North Ventilation Shaft - Shaft Flooding for S880 Arrival         D8 - Construction of Viaduct Foundations at Portion N         Variation Order V-008 - Issued from SOR         ed Pile Construction         tement         Final Method Statement         Method Statement - Submission for SOR Approval         Construction         Pile 7 - Excavation         Pile 7 - RCD Installation         Pile 13 - RCD Socket Drilling         Pile 6 - RCD Socket Drilling	6 16A 0 4 0 3 3 2 4 4 14	05-Dec-15 08-May-14 20-May-14 23-May-14 31-May-14	11-Dec-15 29-Apr-14 12-May-14 12-May-14 12-May-14 22-May-14 24-May-14 05-Jun-14	13-Nov-15 03-Aug-15A 14-Aug-15A 18-Aug-15A 26-Aug-15A 08-Oct-15A	19-Nov-15 27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A 29-Aug-15A							-	
A6416360 TMCLK-NG-101 Viaduct Bord Method Sta TMCLK-NG-85 TMCLK-NG-86 Bored Pile ( G1b-7 TMCLK-NG0 TMCLK-NG1 H1b-13 TMCLK-N72 G1c-6 TMCLK-N655 TMCLK-N655	North Ventilation Shaft - Shaft Flooding for S880 Arrival <b>D8 - Construction of Viaduct Foundations at Portion N</b> Variation Order V-008 - Issued from SOR <b>Construction tement</b> Final Method Statement         Method Statement - Submission for SOR Approval <b>Construction</b> Pile 7 - Excavation         Pile 7 - RCD Installation         Pile 6 - RCD Socket Drilling         Pile 6 - Concreting	6 16A 0 4 0 3 2 4 4 4 4 4 4	05-Dec-15 08-May-14 20-May-14 23-May-14 31-May-14	11-Dec-15 29-Apr-14 12-May-14 12-May-14 22-May-14 24-May-14 05-Jun-14	13-Nov-15 03-Aug-15A 14-Aug-15A 18-Aug-15A 26-Aug-15A	19-Nov-15 27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A							-	
A6416360 TMCLK-N6-101 Viaduct Bore Method Sta TMCLK-N6-85 TMCLK-N6-86 Bored Pile ( G1b-7 TMCLK-N61 H1b-13 TMCLK-N61 H1b-13 TMCLK-N655 TMCLK-N655 TMCLK-N655	North Ventilation Shaft - Shaft Flooding for S880 Arrival         D8 - Construction of Viaduct Foundations at Portion N         Variation Order V-008 - Issued from SOR         Construction         tement         Final Method Statement         Method Statement - Submission for SOR Approval         Construction         Pile 7 - Excavation         Pile 7 - RCD Installation         Pile 13 - RCD Socket Drilling         Pile 6 - Concreting         Cap	6 16A 0 4 0 3 3 2 4 4 14	05-Dec-15 08-May-14 20-May-14 23-May-14 31-May-14	11-Dec-15 29-Apr-14 12-May-14 12-May-14 12-May-14 22-May-14 24-May-14 05-Jun-14	13-Nov-15 03-Aug-15A 14-Aug-15A 18-Aug-15A 26-Aug-15A 08-Oct-15A	19-Nov-15 27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A 29-Aug-15A							-	
A6416360 TMCLK-N6-101 Viaduct Bord Method Sta TMCLK-N6-85 TMCLK-N6-86 Bored Pile ( G1b-7 TMCLK-N60 TMCLK-N60 TMCLK-N61 H1b-13 TMCLK-N72 G1c-6 TMCLK-N655 TMCLK-N655	North Ventilation Shaft - Shaft Flooding for S880 Arrival         D8 - Construction of Viaduct Foundations at Portion N         Variation Order V-008 - Issued from SOR         Construction         tement         Final Method Statement         Method Statement - Submission for SOR Approval         Construction         Pile 7 - Excavation         Pile 7 - RCD Installation         Pile 13 - RCD Socket Drilling         Pile 6 - Concreting         Cap	6 16A 0 4 0 3 3 2 4 4 14	05-Dec-15 08-May-14 20-May-14 23-May-14 31-May-14	11-Dec-15 29-Apr-14 12-May-14 12-May-14 12-May-14 22-May-14 24-May-14 05-Jun-14	13-Nov-15 03-Aug-15A 14-Aug-15A 18-Aug-15A 26-Aug-15A 08-Oct-15A	19-Nov-15 27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A 29-Aug-15A							-	
A6416360 TMCLK-N6-101 Viaduct Bore Method Sta TMCLK-N6-85 TMCLK-N6-86 Bored Pile ( G1b-7 TMCLK-N61 H1b-13 TMCLK-N61 H1b-13 TMCLK-N655 TMCLK-N655 TMCLK-N655 TMCLK-N655	North Ventilation Shaft - Shaft Flooding for S880 Arrival         D8 - Construction of Viaduct Foundations at Portion N         Variation Order V-008 - Issued from SOR         Construction         tement         Final Method Statement         Method Statement - Submission for SOR Approval         Construction         Pile 7 - Excavation         Pile 7 - RCD Installation         Pile 13 - RCD Socket Drilling         Pile 6 - Concreting         Cap	6 16A 0 4 0 3 3 2 4 4 14	05-Dec-15 08-May-14 20-May-14 23-May-14 31-May-14	11-Dec-15 29-Apr-14 12-May-14 12-May-14 12-May-14 22-May-14 24-May-14 05-Jun-14	13-Nov-15 03-Aug-15A 14-Aug-15A 18-Aug-15A 26-Aug-15A 08-Oct-15A	19-Nov-15 27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A 29-Aug-15A							-	
A6416360 TMCLK-N6-101 Viaduct Bord Method Sta TMCLK-N6-85 TMCLK-N6-86 Bored Pile 0 G1b-7 TMCLK-N600 TMCLK-N600 TMCLK-N610 H1b-13 TMCLK-N655 TMCLK-N655 TMCLK-N655 TMCLK-N655 TMCLK-N655	North Ventilation Shaft - Shaft Flooding for S880 Arrival         28 - Construction of Viaduct Foundations at Portion N         Variation Order V-008 - Issued from SOR         20 Pile Construction         tement         Final Method Statement         Method Statement - Submission for SOR Approval         Construction         Pile 7 - Excavation         Pile 7 - RCD Installation         Pile 13 - RCD Socket Drilling         Pile 6 - RCD Socket Drilling         Pile 6 - Concreting         Cap	6       16A       0       4       0       3       2       4       14       1	05-Dec-15 08-May-14 08-May-14 20-May-14 23-May-14 31-May-14 31-May-14 01-Aug-14	11-Dec-15 29-Apr-14 12-May-14 12-May-14 22-May-14 22-May-14 24-May-14 05-Jun-14 05-Jun-14	13-Nov-15 03-Aug-15A 14-Aug-15A 18-Aug-15A 26-Aug-15A 08-Oct-15A 01-Aug-14A	19-Nov-15 27-Jul-15A 06-Aug-15A 06-Aug-15A 19-Aug-15A 19-Aug-15A 29-Aug-15A 29-Jul-15A 29-Jul-15A							-	
A6416360 TMCLK-N6-101 Viaduct Bord Method Sta TMCLK-N6-85 TMCLK-N6-85 TMCLK-N6-86 Bored Pile ( G1b-7 TMCLK-N61 H1b-13 TMCLK-N61 H1b-13 TMCLK-N655 TMCLK-N655 TMCLK-N657 Viaduct Pile Construction Pier G1C TMCLK-N636 TMCLK-N637	North Ventilation Shaft - Shaft Flooding for S880 Arrival <b>D8 - Construction of Viaduct Foundations at Portion N</b> Variation Order V-008 - Issued from SOR <b>ed Pile Construction tement</b> Final Method Statement         Method Statement - Submission for SOR Approval <b>Construction</b> Pile 7 - Excavation         Pile 7 - Excavation         Pile 7 - RCD Installation         Pile 6 - RCD Socket Drilling         Pile 6 - Concreting <b>Cap P</b> <td>6         I6A         0         4         0         3         2         4         14         1         6</td> <td>05-Dec-15 08-May-14 20-May-14 23-May-14 31-May-14 31-May-14 01-Aug-14 01-Aug-14</td> <td>11-Dec-15 29-Apr-14 12-May-14 12-May-14 22-May-14 24-May-14 24-May-14 29-Jul-14 05-Jun-14 01-Aug-14</td> <td>13-Nov-15 13-Nov-15 03-Aug-15A 14-Aug-15A 18-Aug-15A 18-Aug-15A 08-Oct-15A 08-Oct-15A 01-Aug-14A</td> <td>19-Nov-15 27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A 29-Jul-15A 29-Jul-15A</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td>	6         I6A         0         4         0         3         2         4         14         1         6	05-Dec-15 08-May-14 20-May-14 23-May-14 31-May-14 31-May-14 01-Aug-14 01-Aug-14	11-Dec-15 29-Apr-14 12-May-14 12-May-14 22-May-14 24-May-14 24-May-14 29-Jul-14 05-Jun-14 01-Aug-14	13-Nov-15 13-Nov-15 03-Aug-15A 14-Aug-15A 18-Aug-15A 18-Aug-15A 08-Oct-15A 08-Oct-15A 01-Aug-14A	19-Nov-15 27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A 29-Jul-15A 29-Jul-15A							-	
A6416360 TMCLK-NG-101 Viaduct Bord Method Sta TMCLK-NG-85 TMCLK-NG-86 Bored Pile 0 G1b-7 TMCLK-NG0 TMCLK-NG0 TMCLK-NG1 H1b-13 TMCLK-NG55 TMCLK-N655 TMCLK-N655 TMCLK-N655 TMCLK-N657 Viaduct Pile Constructio Pier G1C TMCLK-N637 TMCLK-N637	North Ventilation Shaft - Shaft Flooding for S880 Arrival <b>D8 - Construction of Viaduct Foundations at Portion N</b> Variation Order V-008 - Issued from SOR <b>Construction tement</b> Final Method Statement         Method Statement - Submission for SOR Approval <b>Construction</b> Pile 7 - Excavation         Pile 7 - RCD Installation         Pile 13 - RCD Socket Drilling         Pile 6 - RCD Socket Drilling         Pile 6 - Concreting <b>Cap P</b> ile Cap G1c - Preparation for ELS         Pile Cap G1c - Removal of Existing ground slab	6         16A         0         4         0         3         2         4         14         14         1         6         6         6         6	05-Dec-15 08-May-14 08-May-14 20-May-14 23-May-14 31-May-14 31-May-14 01-Aug-14 01-Aug-14 24-Oct-14	11-Dec-15 29-Apr-14 12-May-14 12-May-14 22-May-14 22-May-14 22-May-14 22-May-14 22-Jul-14 05-Jun-14 01-Aug-14 30-Oct-14 06-Nov-14	13-Nov-15 03-Aug-15A 03-Aug-15A 14-Aug-15A 18-Aug-15A 26-Aug-15A 08-Oct-15A 08-Oct-15A 01-Aug-14A 01-Aug-14A	19-Nov-15 27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A 29-Aug-15A 29-Jul-15A 29-Jul-15A 29-Jul-15A							-	
A6416360 TMCLK-N6-101 Viaduct Bord Method Sta TMCLK-N6-85 TMCLK-N6-86 Bored Pile ( G1b-7 TMCLK-N60 TMCLK-N61 H1b-13 TMCLK-N61 H1b-13 TMCLK-N655 TMCLK-N655 TMCLK-N655 TMCLK-N657 Viaduct Pile Constructio Pier G1C TMCLK-N638 TMCLK-N638 TMCLK-N638	North Ventilation Shaft - Shaft Flooding for S880 Arrival <b>D8 - Construction of Viaduct Foundations at Portion N</b> Variation Order V-008 - Issued from SOR <b>Construction tement</b> Final Method Statement         Method Statement - Submission for SOR Approval <b>Construction</b> Pile 7 - Excavation         Pile 7 - RCD Installation         Pile 6 - RCD Socket Drilling         Pile 6 - Concreting <b>Cap P</b> ile Cap G1c - Preparation for ELS         Pile Cap G1c - Removal of Existing ground slab         Pile Cap G1c - Blinding Concrete	6         I6A         0         4         0         3         2         4         14         14         1         6         6         12	05-Dec-15 08-May-14 20-May-14 23-May-14 31-May-14 01-Aug-14 01-Aug-14 31-Oct-14 31-Oct-14 07-Nov-14	11-Dec-15 29-Apr-14 12-May-14 12-May-14 12-May-14 22-May-14 22-May-14 24-May-14 23-Jul-14 05-Jun-14 01-Aug-14 01-Aug-14 06-Nov-14	13-Nov-15 13-Nov-15 03-Aug-15A 14-Aug-15A 18-Aug-15A 18-Aug-15A 26-Aug-15A 08-Oct-15A 08-Oct-15A 01-Aug-14A 01-Aug-14A 01-Aug-14A	19-Nov-15 27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A 29-Aug-15A 29-Jul-15A 29-Jul-15A 29-Jul-15A 29-Jul-15A							-	
A6416360 TMCLK-N6-101 Viaduct Bore Method Sta TMCLK-N6-85 TMCLK-N6-86 Bored Pile G G1b-7 TMCLK-N60 TMCLK-N61 H1b-13 TMCLK-N61 TMCLK-N655 TMCLK-N655 TMCLK-N655 Viaduct Pile Construction Pier G1C TMCLK-N638 TMCLK-N638 TMCLK-N639 TMCLK-N639 TMCLK-N639 TMCLK-N639	North Ventilation Shaft - Shaft Flooding for S880 Arrival <b>D8 - Construction of Viaduct Foundations at Portion N</b> Variation Order V-008 - Issued from SOR <b>Construction tement</b> Final Method Statement         Method Statement - Submission for SOR Approval <b>Construction</b> Pile 7 - Excavation         Pile 7 - RCD Installation         Pile 6 - RCD Socket Drilling         Pile 6 - Concreting <b>Cap</b> Pile Cap G1c - Preparation for ELS         Pile Cap G1c - Removal of Existing ground slab         Pile Cap G1c - Blinding Concrete         Pile Cap G1c - Rebar & Concreting	6         I6A         0         4         0         3         2         4         14         14         14         14         14         13         6         6         12         3         18	05-Dec-15 08-May-14 20-May-14 23-May-14 23-May-14 31-May-14 31-May-14 01-Aug-14 01-Aug-14 31-Oct-14 31-Oct-14 31-Oct-14 22-Nov-14 225-Nov-14	11-Dec-15 29-Apr-14 12-May-14 12-May-14 12-May-14 22-May-14 22-May-14 24-May-14 23-Jul-14 05-Jun-14 01-Aug-14 01-Aug-14 06-Nov-14 20-Nov-14 22-Nov-14 22-Nov-14 15-Dec-14	13-Nov-15 13-Nov-15 03-Aug-15A 14-Aug-15A 18-Aug-15A 18-Aug-15A 08-Oct-15A 08-Oct-15A 01-Aug-14A 01-Aug-14A 01-Aug-14A 01-Aug-14A 01-Aug-15A 01-Aug-15A	19-Nov-15 27-Jul-15A 06-Aug-15A 06-Aug-15A 19-Aug-15A 19-Aug-15A 29-Aug-15A 29-Aug-15A 29-Jul-15A 29-Jul-15A 29-Jul-15A 29-Jul-15A 31-Oct-15 31-Oct-15 28-Oct-15 31-Oct-15							-	
A6416360 TMCLK-N6-101 Viaduct Bord Method Sta TMCLK-N6-85 TMCLK-N6-85 TMCLK-N6-86 Bored Pile ( G1b-7 TMCLK-N60 TMCLK-N61 H1b-13 TMCLK-N61 H1b-13 TMCLK-N65 TMCLK-N655 TMCLK-N657 Viaduct Pile Constructio Pier G1C TMCLK-N638 TMCLK-N638 TMCLK-N639 TMCLK-N640 TMCLK-N640	North Ventilation Shaft - Shaft Flooding for S880 Arrival <b>D8 - Construction of Viaduct Foundations at Portion N</b> Variation Order V-008 - Issued from SOR <b>Construction tement</b> Final Method Statement         Method Statement - Submission for SOR Approval <b>Construction</b> Pile 7 - Excavation         Pile 7 - RCD Installation         Pile 6 - RCD Socket Drilling         Pile 6 - Concreting <b>Cap P</b> ile Cap G1c - Preparation for ELS         Pile Cap G1c - Removal of Existing ground slab         Pile Cap G1c - Blinding Concrete	6         16A         0         4         0         3         2         4         14         14         14         14         12         3         3         3         3         3         3         12         3	05-Dec-15 08-May-14 08-May-14 20-May-14 23-May-14 23-May-14 31-May-14 14-Jul-14 01-Aug-14 24-Oct-14 31-Oct-14 31-Oct-14 31-Oct-14	11-Dec-15 29-Apr-14 12-May-14 12-May-14 12-May-14 22-May-14 22-May-14 22-May-14 22-May-14 22-Jul-14 05-Jun-14 29-Jul-14 01-Aug-14 30-Oct-14 20-Nov-14 20-Nov-14	13-Nov-15 13-Nov-15 03-Aug-15A 14-Aug-15A 14-Aug-15A 18-Aug-15A 08-Oct-15A 08-Oct-15A 01-Aug-14A 29-Sep-15 07-Oct-15 14-Oct-15 14-Oct-15 29-Oct-15	19-Nov-15 27-Jul-15A 06-Aug-15A 06-Aug-15A 19-Aug-15A 19-Aug-15A 29-Aug-15A 29-Aug-15A 29-Jul-15A 29-Jul-15A 29-Jul-15A 29-Jul-15A 29-Jul-15A 29-Jul-15A							-	
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A6416360 TMCLK-NG-00 TMCLK-NG-101 Viaduct Bore Method Sta TMCLK-NG-85 TMCLK-NG-86 Bored Pile ( G1b-7 TMCLK-NG1 H1b-13 TMCLK-NG1 H1b-13 TMCLK-NG1 H1b-13 TMCLK-NG1 H1b-13 TMCLK-NG5 TMCLK-NG5 TMCLK-NG5 TMCLK-NG57 Viaduct Pile Constructio Pier G1C TMCLK-NG38 TMCLK-NG38 TMCLK-NG39 TMCLK-NG40 TMCLK-NG41 Pier H1C TMCLK-NG42 TMCLK-NG43 H0f 12	North Ventilation Shaft - Shaft Flooding for S880 Arrival  28 - Construction of Viaduct Foundations at Portion N Variation Order V-008 - Issued from SOR  29 Pile Construction  Tement  Final Method Statement  Method Statement - Submission for SOR Approval  Construction  Pile 7 - Excavation Pile 7 - Excavation Pile 6 - RCD Socket Drilling Pile 6 - RCD Socket Drilling Pile 6 - Concreting  Cap On  Pile Cap G1c - Preparation for ELS Pile Cap G1c - Blinding Concrete Pile Cap G1c - Beackfilling & Temp Reinstatement Pile Cap G1c - Beackfilling & Temp Reinstatement Pile Cap G1c - Rebar & Concreting Pile Cap H1c - Preparation for ELS Pilanned Bar Pilanned Bar Pilanned Bar	6         16A         0         4         0         3         2         4         1         14         14         14         14         14         14         14         15         6         12         3         18         6 </td <td>05-Dec-15 08-May-14 20-May-14 23-May-14 23-May-14 31-May-14 31-May-14 23-May-14 24-Oct-14 01-Aug-14 24-Oct-14 31-Oct-14 07-Nov-14 21-Nov-14 25-Nov-14 25-Nov-14 25-Nov-14 25-Nov-14 25-Nov-14 25-Nov-14 25-Nov-14 25-Nov-14</td> <td>11-Dec-15 29-Apr-14 12-May-14 12-May-14 22-May-14 22-May-14 22-May-14 22-May-14 22-May-14 22-May-14 22-May-14 30-Oct-14 06-Nov-14 20-Nov-14 20-Nov-14 22-Dec-14 22-Dec-14 31-Dec-14 08-Jan-15 Ection Sub-S</td> <td>13-Nov-15         13-Nov-15         03-Aug-15A         14-Aug-15A         14-Aug-15A         18-Aug-15A         26-Aug-15A         08-Oct-15A         08-Oct-15         09-Nov-15         09-Nov-15         09-Nov-15         09-Nov-15         09-Nov-15         09-Nov-15         09-Nov-15         09-Nov-15         09-Nov-15         09-Nov-15<!--</td--><td>19-Nov-15 27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A 29-Aug-15A 29-Aug-15A 29-Jul-15A 29-Jul-15A 29-Jul-15A 29-Jul-15A 28-Oct-15 13-Oct-15 28-Oct-15 28-Nov-15 28-Nov-15 28-Nov-15 28-Nov-15 28-Nov-15 28-Nov-15</td><td>香 進</td><td></td><td></td><td>12-Feb-14</td><td></td><td>500 RG08507 Teve C</td><td>Cheded WYu SPa CLa</td><td>Appr</td></td>	05-Dec-15 08-May-14 20-May-14 23-May-14 23-May-14 31-May-14 31-May-14 23-May-14 24-Oct-14 01-Aug-14 24-Oct-14 31-Oct-14 07-Nov-14 21-Nov-14 25-Nov-14 25-Nov-14 25-Nov-14 25-Nov-14 25-Nov-14 25-Nov-14 25-Nov-14 25-Nov-14	11-Dec-15 29-Apr-14 12-May-14 12-May-14 22-May-14 22-May-14 22-May-14 22-May-14 22-May-14 22-May-14 22-May-14 30-Oct-14 06-Nov-14 20-Nov-14 20-Nov-14 22-Dec-14 22-Dec-14 31-Dec-14 08-Jan-15 Ection Sub-S	13-Nov-15         13-Nov-15         03-Aug-15A         14-Aug-15A         14-Aug-15A         18-Aug-15A         26-Aug-15A         08-Oct-15A         08-Oct-15         09-Nov-15         09-Nov-15         09-Nov-15         09-Nov-15         09-Nov-15         09-Nov-15         09-Nov-15         09-Nov-15         09-Nov-15         09-Nov-15 </td <td>19-Nov-15 27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A 29-Aug-15A 29-Aug-15A 29-Jul-15A 29-Jul-15A 29-Jul-15A 29-Jul-15A 28-Oct-15 13-Oct-15 28-Oct-15 28-Nov-15 28-Nov-15 28-Nov-15 28-Nov-15 28-Nov-15 28-Nov-15</td> <td>香 進</td> <td></td> <td></td> <td>12-Feb-14</td> <td></td> <td>500 RG08507 Teve C</td> <td>Cheded WYu SPa CLa</td> <td>Appr</td>	19-Nov-15 27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A 29-Aug-15A 29-Aug-15A 29-Jul-15A 29-Jul-15A 29-Jul-15A 29-Jul-15A 28-Oct-15 13-Oct-15 28-Oct-15 28-Nov-15 28-Nov-15 28-Nov-15 28-Nov-15 28-Nov-15 28-Nov-15	香 進			12-Feb-14		500 RG08507 Teve C	Cheded WYu SPa CLa	Appr
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/ity ID	Activity Name			rig F ur	Planned Start	Planned Finish	Current Start	Current Finish			A	2015		Ne	Der	201
TMCLK-N644	4 Pile Cap H1c - Excavati	ion & ELS Installation	1	2 (	09-Jan-15	22-Jan-15	14-Dec-15	29-Dec-15	Jun ¦	Jul	Aug	Sep		Nov	Dec	Ja
North Surfac	e works for TBM	Tunnelling						<u> </u>							1	
Design Sub	mission								<u> </u>							
(D1) IFA for AP01535	r Temp. Access to Designer to Prepare RtC	Portion N8A, N8B & N8C incl. Ter		8	07-Apr-14	30-Apr-14	16-May-15A	22-Aug-15A								
AP01540		/ ICE together with Reply To Comment (RTC)		0		30-Apr-14		22-Aug-15A		1 1 1					1	
AP01545	Reply to IPs Comments			0		30-Apr-14		22-Aug-15A	-							
AP01550	ICEApproval & Issue of	Design Check Cert.	1	8 (	02-May-14	23-May-14	22-Aug-15A	10-Sep-15A	-						1	
AP01555	Check Cert to SO			0		23-May-14		10-Sep-15A	-							
AP01560	No Objection or Further	Minor Comments from IPs Received		0		23-May-14		10-Sep-15A					<b> </b>		 	
AP01565	SO Review (35 Days)		3	15 (	02-May-14	05-Jun-14	22-Aug-15A	29-Sep-15								
AP01570	SO Approval with Condit	tion R eceived		C		05-Jun-14		29-Sep-15	-							
Constructio	on															
Zone E	Inclement Weather - Zor	ne E - Jet Grauting		2	16-Feb-15	17-Feb-15	30-Jul-15A	01-Aug-15A	ting					       		
Zone D1								or Aug 10A								
	T Inclement Weather - Zor	ne D1 - Vibro-compaction (CH305 to 355)		4 :	28-Aug-14	31-Aug-14	27-Jul-15A	30-Jul-15A								
NRC14020 EO	T Inclement Weather - Zor	ne D1 - Ground Treatment for CP54		2	05-Sep-14	06-Sep-14	27-Jul-15A	28-Jul-15A	-							
Zone D2																
NRC14110 EO	T Inclement Weather - Zor	ne D2 - Ground Treatment for CP53		2	14-Oct-14	16-Oct-14	29-Jul-15A	30-Jul-15A								
Zone C2 NRC1202155	Inclement Weather - Zor	ne C2 - Rock Fissue Grouting for CP51		2	20-Oct-14	21-Oct-14	27-Jul-15A	28-Jul-15A								
EOT		ne oz - nock i issue croding for or st			20-001-14	21-00(-14	27-501-134	20-301-13A		1 1 1						
Zone B A6415920	Zone B - Ground Treatm	nent for TBM Break-out Plug	5	i8 :	22-Jun-15	28-Aug-15	18-Mar-15A	11-Apr-15 A				Zone B -	Ground Treatm	ent for TBN	Break-out P	۹ug
North Approx	ach TBM Tunnelli	ing & Cross Passage							1							
Major Procu																
Precast Se	-	Production for NB North TBM Tur	nnel													
A6417970		Ring Fabrication - 2 rings per day		48 :	30-Sep-14	25-Apr-15	25-Sep-14A	18-Jul-15A	BM Segment F	Ring Fabricati	on - 2 rings	per day			1	
Design Sub	mission															
(G2) DDA f	or TBM Tunnel Li	ning Structural Design - North Ap	-	73	01-Aug-14	04-Mar-15	25-Aug-14A	18-Jul-15A	nufacturing							
	, , , , , , , , , , , , , , , , , , ,				-		20-Aug-14A	10-301-13A		1 1 1					1	
DD67518	IPs Review	e - Permanent works - incl. Detaile			09-Jan-15	05-Feb-15	11-Mar-15 A	02-Jul-15A								
DD67528	IP's No Objection Receiv	ved		D		05-Feb-15		02-Jul-15A								
DD67609*	SO's Review		3	5	09-Jan-15	12-Feb-15	11-Mar-15 A	02-Jul-15A								
DD67610	SO Approval with Condit	tion R eceived		D		12-Feb-15		02-Jul-15A								
Constructio	on															
		Setup for TBM operation		0	00 Oct 15	00 Nov 15	01 Aug 15 A	00 Nov 15								
A6415970 A6416000	Gantry Setup at North Ve				03-Oct-15	28-Nov-15	21-Aug-15A	09-Nov-15	_						Gantry Se	stup at
		nstallation, Commissioning & Operation		9 (	05-May-15	15-Jul-15	04-May-15A	17-Aug-15A		Hy	perbaric Equ	ipment Insta	ation, Comm	issioning & C	peration	
TBM10005		el - NB ID15.60m - S880 - CDG+Boulder with Trimix (Ch7205 to 7175 - 30m)	1	2 :	28-Apr-15	09-May-15	26-Apr-15A	16-Jul-15A	¦ North TBM T	unnel - CDG	+ Boulder wit	h Trimix (C	17205 to 7175	30m)		
TBM10015	NB - North TBM Tunnel	- Back-up Gantry G3 & G4 Assembly	1	4 2	25-May-15	07-Jun-15	12-Jun-15A	06-Jul-15A	NB-I	North TBM Tu	innel - Back-	up Gantry G	3 & G4 Assem	bly		
TBM10020	NB - North TBM Tunnel	- CDG with Trimix (Ch7155 to 7105 - 50m)	1	4	08-Jun-15	22-Jun-15	06-Jul-15A	10-Jul-15A		NB - North T	BM Tunnel -	CDG with T	rimix (Ch7155	5 to 7105 - 50	) m)	
TBM10030	NB - North TBM Tunnel	- CDG with Trimix (Ch7105 to 7000 - 105m)	2	24 :	23-Jun-15	17-Jul-15	10-Jul-15A	20-Jul-15A		NE	- North TB	M Tunnel - C	DG with Trim	x (Ch7105 t	φ 7000 - 105r	im)
TBM10040	NB - North TBM Tunnel	- CDG with Trimix (Ch7000 to 6870 - 130m)	1	8	18-Jul-15	04-Aug-15	20-Jul-15A	07-Aug-15A			NB - N	drth TBM Tu	unhel - CDG wi	th Trimix (C	h7000 to 687	70 - 13
TBM10050	NB - North TBM Tunnel	- CDG+Boulder with Saturation (Ch6870 to 6840 - 30	)m) 2	20	05-Aug-15	25-Aug-15	07-Aug-15A	15-Aug-15A				NB - North	TBM Tunnel -	CDG+Boul	der with Satu	uration
TBM10060	NB - North TBM Tunnel	- Transition with Saturation (Ch6840 to 6708 - 132m)	7	'5 i	26-Aug-15	08-Nov-15	15-Aug-15A	25-Sep-15A				! !		NB-1	North TBM Tu	Junnel
TBM10070	NB - North TBM Tunnel	- Transition with Saturation (Ch6708 to 6688 - 20m)		6 (	09-Nov-15	14-Nov-15	26-Sep-15A	18-Oct-15						▶ №В	- North TBM	ЛTunn
TBM10072	NB - North TBM Tunnel	- Transition with Saturation (Ch6688 to 6640 - 48m)	1	4 1	15-Nov-15	28-Nov-15	19-Oct-15	01-Nov-15		1 1 1					NB - North	th TBN
TBM10074	NB - North TBM Tunnel	- CDG+Boulder with Saturation (Ch6640 to 6600 - 40	)m)	в 2	29-Nov-15	06-Dec-15	02-Nov-15	09-Nov-15						l I	NB - N	Jorth ⊺
TBM10076	NB - North TBM Tunnel	- CDG with Saturation (Ch6600 to 6560 - 40m)		5 (	07-Dec-15	11-Dec-15	10-Nov-15	14-Nov-15		1 1 1	_		1		NB -	- North
TBM11020	NB - North TBM Tunnel	- Thrust Frame Removal	1	2	05-Aug-15	18-Aug-15	14-Oct-15	28-Oct-15				B - North T	BM Tunnel - Th	rust Frame	Removal	
		el - SB ID12.40m - S882		<b>D</b>	00 her 37	00.1	00 h = 17 h	00 t	_							]
TBM10485		- CDG+Boulder with Trimix (Ch7226 to 7196 - 30m)			22-Jun-15	30-Jun-15	22-Jun-15A	30-Jun-15A				1	oulder with Trir			
TBM10490		- CDG+Boulder with Trimix (Ch7196 to 7176 - 20m)			30-Jun-15	10-Jul-15	30-Jun-15A	10-Jul-15A		<u> </u>			Gi+Boulder with			
TBM10495		- Back-up Gnatry G3 & G4 Assembly			10-Jul-15	26-Jul-15	25-Oct-15A	08-Nov-15A	-				Back-up Gna		1	
TBM10500		- CDG with Trimix (Ch7176 to 7126 - 50m)			26-Jul-15	05-Aug-15	15-Jun-15A	22-Jul-15A					nnel - CDG wit			
TBM10510		- CDG with Trimix (Ch7126 to 7021 - 105m) - CDG with Trimix (Ch7021 to 6891 - 130m)	1		05-Aug-15 23-Aug-15	23-Aug-15 04-Sep-15	23-Jul-15A 17-Aug-15A	16-Aug-15A 28-Aug-15A	-				BM Tunnel - C			
TBM10520		- CDG with Trimix (Ch/021 to 6891 - 130m) - CDG+Boulder with Saturation (Ch6891 to 6861 - 30			23-Aug-15 04-Sep-15	04-Sep-15	17-Aug-15A 29-Aug-15A	07-Sep-15A		1 1			orth TBM Tunn			
TBM10530		- CDG+Boulder with Saturation (Ch6891 to 6861 - 30 - Transition with Saturation (Ch6861 to 6729 - 132m)			04-Sep-15 13-Sep-15	13-Sep-15 15-Nov-15	07-Sep-15A	23-Oct-15							G+Boulder w ¦ ¦- North TBN	
TBM10540		- Transition with Saturation (Ch6729 to 6709 - 20m)			15-Nov-15	20-Nov-15	24-Oct-15	23-Oct-15							S- North TBN 5 B - North TE	
TBM11030		- Thrust Frame Removal			04-Sep-15	18-Sep-15	30-Sep-15	14-Oct-15					SB - North TBN	¦		
TBM11040		- Transition with Saturation (Ch6709 to 6661 - 48m)			20-Nov-15	01-Dec-15	29-Oct-15	08-Nov-15		   					SB - Nor	
TBM11050		- Transition with Saturation (Ch6661 to 6621 - 40m)			01-Dec-15	07-Dec-15	09-Nov-15	14-Nov-15							SB-NOT	
TBM11060		- Transition with Saturation (Ch6621 to 6581 - 40m)			07-Dec-15	11-Dec-15	15-Nov-15	18-Nov-15		, 1 1					B-N	
		ernal Structure - NB								     						
ISIG0990		- Invert Backfilling (Ch7205 to 7175 - 30m) Stage 1		8	19-Aug-15	26-Aug-15	07-Sep-15A	10-Sep-15A	- <u>-</u>			NB - Nort	th TBM Tunnel	Invert Back	filling (Ch72	205 to 7
ISIG1000	NB - North TBM Tunnel	- Invert Backfilling (Ch7175 to 6870 - 305m) Stage 1	8	37 :	27-Aug-15	21-Nov-15	07-Sep-15A	20-Dec-15				 	<b></b>		NB - North T	
10101000						L			<u>.</u>	l			<u></u>		<u>.</u>	_
			TMCLK	Northe	rn Conne	ection Sub-S	ea Tunnel S	ection				Date 12-Feb-14	Revi TMCLK/DBJGEN/P		Checked WYu	App SPo
		Planned Bar	I INICLK -										TMCLK/DBJGEN/P	CH(\$98507 Boy P	SPa	WYu
e 5 of 12	DWPF 15W39	Planned Bar - Critical			Program	mo (Por F		onthe	香寶	嘉 🛛 👝		08-Apr-14 28-Aug-14 10-Jun-15		PRG/98507 Rev. C PRG/98507 Rev. F		WYu
e 5 of 12 ect ID: TMCLK_I		Planned Bar - Critical   Planned Milestone			s Progran	nme (Rev. F	) - Three Mo	onths	大	es 🛛 🔒	OUYGUES MAUX PUBLICS	28-Aug-14		PRG/98507 Rev. C		WYu
e 5 of 12 ect ID: TMCLK_I a Date: 27-Sep-1		Planned Bar - Critical			-	nme (Rev. F Programme	) - Three Mo	A member of the		es ng roup		28-Aug-14		PRG/98507 Rev. C		WYu

	Activity Name	Orig Dur	Planned Start	Planned Finish	Current Start	Current Finish	Jun	Jul	Aug	2015 Sep	Oct	Nov	Dec	201 Ja
	NB - North TBM Tunnel - Invert Backfilling (Ch6870 to 6688 - 182m) Stage 1	77	22-Nov-15	06-Feb-16	21-Dec-15	09-Mar-16							• • •	
	NB - North TBM Tunnel - Preparation for Invert Gallery Installation	14	27-Aug-15	09-Sep-15	21-Sep-15A	25-Sep-15A			I	NB	North TBM 1	unnel - Prep		
	NB - North TBM Tunnel - Invert Precast Gallery Installation (Ch7205 to 6870 - 335m) NB - North TBM Tunnel - Invert Precast Gallery Installation (Ch6870 to 6688 - 182m)	96	10-Sep-15 15-Dec-15	14-Dec-15 03-Mar-16	01-Sep-15A 	22-Jan-16 14-Apr-16							NB	- North
	ND - North TBM Tunnel - Invert Precast Gallery installation (Choo70 to 666 - 16211) NB - North TBM Tunnel - Invert Backfilling (Ch7205 to 7175 - 30m) Stage 2	9	01-Oct-15	09-Oct-15	29-Oct-15	06-Nov-15					NB-	North TBM T	unnel - Invert	Backfi
	NB - North TBM Tunnel - Invert Backfilling (Ch7175 to 7125 - 50m) Stage 2	15	10-Oct-15	24-Oct-15	07-Nov-15	21-Nov-15							BM Tunnel -	
ISIG1060 N	NB - North TBM Tunnel - Invert Backfilling (Ch7125 to 7075 - 50m) Stage 2	15	25-Oct-15	08-Nov-15	22-Nov-15	06-Dec-15							¦ North TBM Tเ	
ISIG1070 N	NB - North TBM Tunnel - Invert Backfilling (Ch7075 to 7025 - 50m) Stage 2	15	09-Nov-15	23-Nov-15	07-Dec-15	21-Dec-15							¦ NB - North 1	TBM Tu
ISIG1080 N	NB - North TBM Tunnel - Invert Backfilling (Ch7025 to 6975 - 50m) Stage 2	14	24-Nov-15	07-Dec-15	22-Dec-15	04-Jan-16							NB-N	lorth T
ISIG1090 N	NB - North TBM Tunnel - Invert Backfilling (Ch6975 to 6925- 50m) Stage 2	14	08-Dec-15	21-Dec-15	05-Jan-16	18-Jan-16							· •	B - N
ISIG1100 N	NB - North TBM Tunnel - Invert Backfilling (Ch6925 to 6870 - 55m) Stage 2	14	22-Dec-15	04-Jan-16	19-Jan-16	01-Feb-16								N
	ach Tunnel Internal Structure - SB		10.0 15			10.0.1.15								
	SB - North TBM Tunnel - Invert Backfilling (Ch7205 to 7175 - 30m)	8	18-Sep-15	26-Sep-15	14-Sep-15A	16-Oct-15						1	Invert Back	
	SB - North TBM Tunnel - Invert Backfilling (Ch7175 to 7125 - 50m)	13	26-Sep-15	09-Oct-15	16-Sep-15A	19-Oct-15 22-Oct-15							unnel - Invert	
	SB - North TBM Tunnel - Invert Backfilling (Ch7125 to 7075 - 50m) SB - North TBM Tunnel - Invert Backfilling (Ch7075 to 7025 - 50m)	13	22-Oct-15	22-Oct-15 04-Nov-15	18-Sep-15A 	22-Oct-15							BM Tunnel - I ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	
	SB - North TBM Tunnel - Invert Backfilling (Chr050 to 025 - 50m)	12	04-Nov-15	16-Nov-15	26-Oct-15	06-Nov-15						T	; ; t- North TBN	
	SB - North TBM Tunnel - Invert Backfilling (Ch6975 to 6925- 50m)	12	16-Nov-15	28-Nov-15	07-Nov-15	18-Nov-15							SB - North	
	SB - North TBM Tunnel - Invert Backfilling (Ch6925 to 6870 - 55m)	12	28-Nov-15	10-Dec-15	19-Nov-15	30-Nov-15							SB-	
	SB - North TBM Tunnel - Invert Backfilling (Ch6870 to 6688 - 182m)	77	10-Dec-15	28-Feb-16	01-Dec-15	18-Feb-16								
North Approa	ach Cross Passage													
CP55 - Tradi	itional Method													
	CP55 Platform Available from ML03 North Approach Tunnel Backfilling	0	10-Oct-15		07-Nov-15							ļ	ailable from I	
	CP55 Platform Available from ML02 North Approach Tunnel Backfilling	0	09-Oct-15		20-Oct-15							Platform Av	ailable from N	ML02 N
	itional Method CP54 Platform Available from ML03 North Approach Tunnel Backfilling	0	24-Nov-15		22-Dec-15							•	CP54 Platfo	rm Ava
A6418450 C	CP54 Platform Available from ML02 North Approach Tunnel Backfilling	0	04-Nov-15		26-Oct-15								atform Avail	
CP53 - Pipe	Jacking Method													
	CP53 Platform Available from ML03 North Approach Tunnel Backfilling	0	22-Dec-15		19-Jan-16								• (	3P53 F
A6418460 C	CP53 Platform Available from ML02 North Approach Tunnel Backfilling	0	28-Nov-15		19-Nov-15							•	CP53 Plat	form A
CP10100 C	CP - Pipe Jacking TBM - Delivery, Assembly & Setup	23	22-Dec-15	20-Jan-16	19-Jan-16	20-Feb-16								
	Jacking Method CP52 Platform Available from ML02 North Approach Tunnel Backfilling	0	21-Dec-15	í	12-Dec-15									CP52 P
North Ventilatio			21 200 10		12 800 10								•	
Design Submi														
	AS Submissions	09	16 May 14	10 Apr 14	07 Aug 15 A	00. Son 15							1 1 1	
	ACABAS Approval	28	16-Mar-14	12-Apr-14	27-Aug-15A	29-Sep-15								
	ssons to Design Advisory Panel of ArchSD Prepare Re-submission	18	19-May-14	09-Jun-14	22-Jul-14A	18-Sep-15A				-	-	   	 	
GS01740 A	ArchSD's comment	30	10-Jun-14	09-Jul-14	18-Sep-15A	17-Oct-15							- - - -	
(I1) DDA for I	North Vent.Bldgs. GBP & Arch.Submission													
DD01235 D	Designer to Reply RtC + Update Submission	21	28-Jul-14	20-Aug-14	02-May-15A	17-Oct-15								
DD01240 S	Submit Updated DDA to SO/ ICE/ IPs	0	21-Aug-14		19-Oct-15								, , , ,	
	ICEApproval & Issue Check Cert	12	21-Aug-14		10 Oct 15	02-Nov-15	1			1		1	1	
				03-Sep-14	19-Oct-15		i i					1		
	Submit ICE Check Cert to SO	6	04-Sep-14	11-Sep-14	03-Nov-15	09-Nov-15							, , , ,	
DD01255 II	IPs Review	6 28		11-Sep-14 17-Sep-14		15-Nov-15								
DD01255 II DD01260 II	IPs Review IP's No Objection Received	6 28 0	04-Sep-14 21-Aug-14	11-Sep-14 17-Sep-14 17-Sep-14	03-Nov-15 19-Oct-15	15-Nov-15 15-Nov-15					_			
DD01255 II DD01260 II DD01265 S	IPs Review IP's No Objection Received SO's Review	6 28 0 35	04-Sep-14	11-Sep-14 17-Sep-14 17-Sep-14 24-Sep-14	03-Nov-15	15-Nov-15 15-Nov-15 22-Nov-15								
DD01255 II DD01260 II DD01265 S DD01270 S	IPs Review IP's No Objection Received SO's Review SO Approval with Condition R eceived	6 28 0	04-Sep-14 21-Aug-14	11-Sep-14 17-Sep-14 17-Sep-14	03-Nov-15 19-Oct-15	15-Nov-15 15-Nov-15					-			
DD01255 II DD01260 II DD01265 S DD01270 S (11) DDA for N	IPs Review IP's No Objection Received SO's Review	6 28 0 35	04-Sep-14 21-Aug-14	11-Sep-14 17-Sep-14 17-Sep-14 24-Sep-14	03-Nov-15 19-Oct-15	15-Nov-15 15-Nov-15 22-Nov-15								
DD01255 II DD01260 II DD01265 S DD01270 S (11) DDA for I DD67638 F	IPs Review IP's No Objection Received SO's Review SO Approval with Condition Received North & South Vent.BIdg. ABWF works	6 28 0 35 0	04-Sep-14 21-Aug-14 21-Aug-14	11-Sep-14 17-Sep-14 17-Sep-14 24-Sep-14 24-Sep-14	03-Nov-15 19-Oct-15 19-Oct-15	15-Nov-15 15-Nov-15 22-Nov-15 23-Nov-15								
DD01255    DD01260    DD01265    DD01270    ( <b>11) DDA for   </b> DD67638    DD67648	IPs Review IP's No Objection Received SO's Review SO Approval with Condition R eceived North & South Vent.Bldg. ABWF works Preparation of DDANorth & SouthABWF	6 28 0 35 0	04-Sep-14 21-Aug-14 21-Aug-14 25-Sep-14	11-Sep-14 17-Sep-14 17-Sep-14 24-Sep-14 24-Sep-14 24-Sep-14	03-Nov-15 19-Oct-15 19-Oct-15 23-Nov-15	15-Nov-15 15-Nov-15 22-Nov-15 23-Nov-15 12-Dec-15								
DD01255    DD01260    DD01265    DD01270    (11) DDA for    DD67638    DD67648    (12) DDA for	IPs Review IPs No Objection Received SO's Review SO Approval with Condition Received North & South Vent.Bldg. ABWF works Preparation of DDANorth & SouthABWF Review & Comment by JV	6 28 0 35 0	04-Sep-14 21-Aug-14 21-Aug-14 25-Sep-14	11-Sep-14 17-Sep-14 17-Sep-14 24-Sep-14 24-Sep-14 24-Sep-14	03-Nov-15 19-Oct-15 19-Oct-15 23-Nov-15	15-Nov-15 15-Nov-15 22-Nov-15 23-Nov-15 12-Dec-15					-			
DD01255    DD01260    DD01265    DD01270    DD07638    DD67648    ( <b>I2) DDA for   </b> DD68018	IPs Review IPs No Objection Received SO's Review SO Approval with Condition Received North & South Vent.Bldg. ABWF works Preparation of DDANorth & SouthABWF Review & Comment by JV North Vent.Bldgs.Structural Design incl.Vent.Connectior	6 28 0 35 0 18 18	04-Sep-14 21-Aug-14 21-Aug-14 25-Sep-14 18-Oct-14	11-Sep-14 17-Sep-14 17-Sep-14 24-Sep-14 24-Sep-14 24-Sep-14 17-Oct-14 14-Nov-14	03-Nov-15 19-Oct-15 19-Oct-15 23-Nov-15 14-Dec-15	15-Nov-15 15-Nov-15 22-Nov-15 23-Nov-15 12-Dec-15 13-Jan-16					-			
DD01255    DD01260    DD01265  S DD01270  S ( <b>I1) DDA for N</b> DD67638    DD67648    <b>I1) DDA for N</b> DD68018    DD68028	IPs Review IPs No Objection Received SO's Review SO Approval with Condition R eceived North & South Vent.Bldg. ABWF works Preparation of DDANorth & SouthABWF Review & Comment by JV North Vent.Bldgs.Structural Design incl.Vent.Connection Review & Comment by JV Designer prepare DDA Formal Submission of DDAto ICE/ IPs	<ul> <li>6</li> <li>28</li> <li>0</li> <li>35</li> <li>0</li> <li>18</li> <li>24</li> <li>18</li> <li>18</li> <li>18</li> <li>18</li> </ul>	04-Sep-14 21-Aug-14 21-Aug-14 25-Sep-14 18-Oct-14 27-Sep-14	11-Sep-14 17-Sep-14 24-Sep-14 24-Sep-14 24-Sep-14 17-Oct-14 14-Nov-14 20-Oct-14 31-Oct-14	03-Nov-15 19-Oct-15 19-Oct-15 23-Nov-15 14-Dec-15 02-Apr-15A	15-Nov-15 15-Nov-15 22-Nov-15 23-Nov-15 12-Dec-15 13-Jan-16 03-Aug-15A 10-Aug-15A								
DD01255      DD01260      DD01265   S DD01270   S (11) DDA for   DD67638   F (12) DDA for   DD68018   F DD68028   F DD68028   F DD68028   F	IPs Review IPs No Objection Received SO's Review SO Approval with Condition Received North & South Vent.Bldg. ABWF works Preparation of DDANorth & SouthABWF Review & Comment by JV North Vent.Bldgs.Structural Design incl.Vent.Connection Review & Comment by JV Designer prepare DDA Formal Submission of DDAto ICE/ IPs Advanced Submission to SO	<ul> <li>6</li> <li>28</li> <li>0</li> <li>35</li> <li>0</li> <li>4</li> <li>24</li> <li>18</li> <li>24</li> <li>18</li> <li>10</li> <li>0</li> <li>0</li> <li>0</li> <li>0</li> </ul>	04-Sep-14 21-Aug-14 21-Aug-14 25-Sep-14 18-Oct-14 27-Sep-14 21-Oct-14	11-Sep-14 17-Sep-14 24-Sep-14 24-Sep-14 17-Oct-14 17-Oct-14 14-Nov-14 20-Oct-14 31-Oct-14 31-Oct-14	03-Nov-15 19-Oct-15 19-Oct-15 23-Nov-15 14-Dec-15 02-Apr-15A 04-Aug-15A	15-Nov-15 15-Nov-15 22-Nov-15 23-Nov-15 12-Dec-15 13-Jan-16 03-Aug-15A 10-Aug-15A 10-Aug-15A								
DD01255    DD01260    DD01265    DD01270    (11) DDA for    DD67638    DD67648    DD68018    DD68028    DD68028    DD68038	IPs Review IPs No Objection Received SO's Review SO Approval with Condition R eceived North & South Vent.Bldg. ABWF works Preparation of DDANorth & SouthABWF Review & Comment by JV North Vent.Bldgs.Structural Design incl.Vent.Connection Review & Comment by JV Designer prepare DDA Formal Submission of DDAto ICE/ IPs Advanced Submission to SO IPs/ SO's Advance Comments/ ICE Comments	<ul> <li>6</li> <li>28</li> <li>0</li> <li>35</li> <li>0</li> <li>4</li> <li>24</li> <li>24</li> <li>24</li> <li>18</li> <li>24</li> <li>18</li> <li>10</li> <li>0</li> <li>0</li> <li>28</li> </ul>	04-Sep-14 21-Aug-14 21-Aug-14 25-Sep-14 18-Oct-14 27-Sep-14	11-Sep-14 17-Sep-14 24-Sep-14 24-Sep-14 24-Sep-14 24-Sep-14 17-Oct-14 14-Nov-14 20-Oct-14 31-Oct-14 31-Oct-14 31-Oct-14 28-Nov-14	03-Nov-15 19-Oct-15 19-Oct-15 23-Nov-15 14-Dec-15 02-Apr-15A	15-Nov-15 15-Nov-15 22-Nov-15 23-Nov-15 12-Dec-15 13-Jan-16 03-Aug-15A 10-Aug-15A 10-Aug-15A 10-Aug-15A 10-Sep-15A								
DD01255      DD01260      DD01265   5 DD01270   5 (11) DDA for   DD67638   F DD67648   F (12) DDA for   DD68018   F DD68028   F DD68028      DD68030	IPs Review IPs No Objection Received SO's Review SO Approval with Condition Received North & South Vent.Bldg. ABWF works Preparation of DDANorth & SouthABWF Review & Comment by JV North Vent.Bldgs.Structural Design incl.Vent.Connection Review & Comment by JV Designer prepare DDA Formal Submission of DDAto ICE/ IPs Advanced Submission to SO IPs/ SO's Advance Comments/ ICE Comments Comments Received	<ul> <li>6</li> <li>28</li> <li>0</li> <li>35</li> <li>0</li> <li>24</li> <li>24</li> <li>24</li> <li>18</li> <li>18</li> <li>0</li> <li>0</li> <li>0</li> <li>0</li> <li>28</li> <li>0</li> <li0< li=""> <li0< li=""> <li0< li=""> <li>0<!--</td--><td>04-Sep-14 21-Aug-14 21-Aug-14 25-Sep-14 18-Oct-14 27-Sep-14 21-Oct-14 01-Nov-14</td><td>11-Sep-14 17-Sep-14 24-Sep-14 24-Sep-14 17-Oct-14 14-Nov-14 20-Oct-14 31-Oct-14 31-Oct-14 31-Oct-14 28-Nov-14</td><td>03-Nov-15 19-Oct-15 19-Oct-15 23-Nov-15 14-Dec-15 02-Apr-15A 04-Aug-15A</td><td>15-Nov-15 15-Nov-15 22-Nov-15 23-Nov-15 12-Dec-15 13-Jan-16 03-Aug-15A 10-Aug-15A 10-Aug-15A 10-Aug-15A 10-Sep-15A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></li></li0<></li0<></li0<></ul>	04-Sep-14 21-Aug-14 21-Aug-14 25-Sep-14 18-Oct-14 27-Sep-14 21-Oct-14 01-Nov-14	11-Sep-14 17-Sep-14 24-Sep-14 24-Sep-14 17-Oct-14 14-Nov-14 20-Oct-14 31-Oct-14 31-Oct-14 31-Oct-14 28-Nov-14	03-Nov-15 19-Oct-15 19-Oct-15 23-Nov-15 14-Dec-15 02-Apr-15A 04-Aug-15A	15-Nov-15 15-Nov-15 22-Nov-15 23-Nov-15 12-Dec-15 13-Jan-16 03-Aug-15A 10-Aug-15A 10-Aug-15A 10-Aug-15A 10-Sep-15A								
DD01255    DD01260    DD01265  S DD01270  S (11) DDA for    DD67638    DD67648    DD67648    (12) DDA for    DD68018    DD68028    DD68038    DD68038    DD68038	IPs Review IPs No Objection Received SO's Review SO Approval with Condition Received North & South Vent.Bldg. ABWF works Preparation of DDANorth & South ABWF Review & Comment by JV North Vent.Bldgs.Structural Design incl.Vent.Connection 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	<ul> <li>6</li> <li>28</li> <li>0</li> <li>35</li> <li>0</li> <li>35</li> <li>24</li> <li>24</li> <li>24</li> <li>18</li> <li>24</li> <li>18</li> <li>10</li> <li>0</li> <li>0</li> <li>28</li> <li>0</li> <li>21</li> </ul>	04-Sep-14 21-Aug-14 21-Aug-14 25-Sep-14 18-Oct-14 27-Sep-14 21-Oct-14 21-Oct-14 21-Nov-14 29-Nov-14	11-Sep-14 17-Sep-14 24-Sep-14 24-Sep-14 24-Sep-14 24-Sep-14 17-Oct-14 14-Nov-14 20-Oct-14 31-Oct-14 31-Oct-14 31-Oct-14 28-Nov-14	03-Nov-15 19-Oct-15 19-Oct-15 23-Nov-15 14-Dec-15 02-Apr-15A 04-Aug-15A 10-Aug-15A	15-Nov-15 15-Nov-15 22-Nov-15 23-Nov-15 12-Dec-15 13-Jan-16 03-Aug-15A 10-Aug-15A 10-Aug-15A 10-Aug-15A 10-Sep-15A								
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Service and E&amp;M Provision Preparation of DDANth VB Service and E&amp;M Provision Review &amp; Comment by JV</td> <td>6         28         0         35         0         18         24         18         118         24         12         0         21         0         21         0         228         0         28         0         28         0         28         0         29         210         0         35         0         12         6         12         6         12         6         12         13         14         15         16         17         18         24         18         24         18         24         18         24         18         24</td> <td>04-Sep-14 21-Aug-14 21-Aug-14 25-Sep-14 18-Oct-14 27-Sep-14 21-Oct-14 21-Oct-14 22-Nov-14 22-Nov-14 22-Dec-14 24-Dec-14 24-Dec-14 24-Dec-14 24-Dec-14 10-Jan-15 24-Dec-14 12-Sep-14 06-Oct-14</td> <td>11-Sep-14 17-Sep-14 17-Sep-14 24-Sep-14 24-Sep-14 24-Sep-14 17-Oct-14 14-Nov-14 20-Oct-14 31-Oct-14 31-Oct-14 28-Nov-14 28-Nov-14 28-Nov-14 23-Dec-14 09-Jan-15 16-Jan-15 20-Jan-15 20-Jan-15 27-Jan-15</td> <td>03-Nov-15 19-Oct-15 19-Oct-15 23-Nov-15 23-Nov-15 14-Dec-15 02-Apr-15A 04-Aug-15A 04-Aug-15A 04-Aug-15A 07-Oct-15 07-Oct-</td> <td>15-Nov-15 15-Nov-15 22-Nov-15 23-Nov-15 23-Nov-15 12-Dec-15 13-Jan-16 03-Aug-15A 10-Aug-15A 10-Aug-15A 10-Aug-15A 10-Aug-15A 10-Sep-15A 10-Sep-15A 06-Oct-15 28-Oct-15 03-Nov-15 10-Nov-15 10-Nov-15 10-Nov-15 30-Sep-15 30-Oct-15</td> <td></td> <td></td> <td></td> <td></td> <td>TMCLK/DBJGEN TMCLK/DBJGEN TMCLK/DBJGEN</td> <td></td> <td>WYu SPa CLa</td> <td></td>	IPs Review IPs No Objection Received SO's Review SO Approval with Condition Received North & South Vent.Bldg. 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B /PRG/98507 Rev. C</td> <td>WYu SPa CLa</td> <td>SPo WYu</td>	IPs Review IPs No Objection Received SO's Review SO Approval with Condition R eceived North & South Vent.Bldg. ABWF works Preparation of DDANorth & South ABWF Review & Comment by JV North Vent.Bldgs.Structural Design incl.Vent.Connection Review & Comment by JV Designer prepare DDA Formal Submission of DDA to ICE/ IPs Advanced Submission of DDA to ICE/ IPs Advanced Submission to SO IPs/SO's Advance Comments/ ICE Comments Comments Received Designer to Reply RIC + Update Submission Submit Updated DDA to SO/ ICE/ IPs ICE Approval & Issue Check Cert Submit ICE Check Cert to SO IPs No Objection Received SO's Review SO Approval with Condition R eceived North & South Vent.Bldgs. 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B /PRG/98507 Rev. C	WYu SPa CLa	SPo WYu
DD01255         II           DD01260         II           DD01265         S           DD01270         S           DD01270         S           DD01270         S           DD07638         F           DD67648         F           DD68028         F           DD68028         F           DD68028         F           DD68038         II           DD68048         S           DD68058         S           DD68068         II           DD68078         S           DD68088         II           DD68078         S           DD68078         S           DD68078         S           DD68029         II           DD68029         S           DD68028         II           DD68049         S           DD68058         S           DD68068         II           DD680298         II           DD68220         S           (I3) DDA for         F           DD01605         F           DD01605         F           OD101605         F <td>IPs Review IPs No Objection Received SO's Review SO Approval with Condition R eceived North &amp; South Vent.Bldg. 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' ID	Activity Name	Orig Dur	Planned Start	Planned Finish	Current Start	Current Finish	hun	I but	2015	Oct	Nev		20
DD01610	Designer prepare DDA	15	03-Nov-14	19-Nov-14	31-Oct-15	17-Nov-15	Jun	Jul	Aug Sep		Nov	Dec	Ja
DD01615	Formal Submission of DDAto ICE/ IPs	0		19-Nov-14		17-Nov-15							
DD01620	Advanced Submission to SO	0		19-Nov-14		17-Nov-15	-					1	
DD01625	IPs/ SO's Advance Comments/ ICE Comments	28	20-Nov-14	17-Dec-14	18-Nov-15	15-Dec-15	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·			 -	
DD01630	Comments Received	0		17-Dec-14		15-Dec-15						1	
DD01635	Designer to Reply RtC + Update Submission	21	18-Dec-14	14-Jan-15	16-Dec-15	12-Jan-16	-					1 1 1	
	Femp.works for Construction of Nth.Vent.Bldg.							1					
DD04470	ICEApproval & Issue Check Cert	12	09-Jan-15	22-Jan-15	29-Sep-15	13-Oct-15		1					
DD04480	Submit ICE Check Cert to SO	6	23-Jan-15	29-Jan-15	14-Oct-15	20-Oct-15			· · · · · · · · · · · · · · · · · · ·				
DD04490	IPs Review	28	09-Jan-15	05-Feb-15	28-Sep-15	25-Oct-15	-	     				- - -	
DD04500	IP's No Objection Received	0		05-Feb-15		25-Oct-15							
DD04550	SO Approval with Condition R eceived	0		12-Feb-15		27-Oct-15	-						
(12) Towe	r Crane Foundation for Ventilation Building												
DD70480	Preparation of DDATower Cr ane Foundation for Vent Bldg Construction	18	01-Jun-15	22-Jun-15	01-Jul-15A	06-Jul-15A		Preparation of	of DDA Tower Cr ane Fo	undation for V	ent Bldg Cons	struction	
DD70490	Review & Comment by JV	18	23-Jun-15	14-Jul-15	06-Jul-15A	09-Jul-15A		Rev	view & Comment by JV			- - -	
DD70500	Designer prepare DDA	10	15-Jul-15	25-Jul-15	09-Jul-15A	09-Jul-15A	-		Designer prepare DDA				
DD70510	Formal Submission of DDAto ICE/ IPs	0		25-Jul-15		09-Jul-15A	-	; —	Formal Submission of		Ps		
DD70520	Advanced Submission to SO	0		25-Jul-15		09-Jul-15A	-	1	Advanced Submission	1			
DD70530	IPs/ SO's Advance Comments/ ICE Comments	28	26-Jul-15	23-3ui-13 22-Aug-15	09-Jul-15A	22-Jul-15A	<u> </u>			vance Comn			
			20-301-13	-	0 <del>5</del> -501-15A		-				hents/ICEC	omments	
DD70540	Comments Received	0		22-Aug-15		22-Jul-15A	_		¢ ¢omments				
DD70550	Designer to Reply RtC + Update Submission	21	24-Aug-15	16-Sep-15	22-Jul-15A	22-Jul-15A	_	     			eply RtC + U	1	sion
DD70560	Submit Updated DDA to SO/ ICE/ IPs	0	17-Sep-15		22-Jul-15A			     	•	Supmit Update	ed DDA to SC	)/ ICE/ IPs	
DD70570	ICEApproval & Issue Check Cert	12	17-Sep-15	02-Oct-15	22-Jul-15A	22-Jul-15A		     			orbval & Issue	1	
DD70580	Submit ICE Check Cert to SO	6	03-Oct-15	09-Oct-15	22-Jul-15A	22-Jul-15A		   		Subr	nit ICE Chec	k Cert to SO	
DD70590	IPs Review	28	17-Sep-15	14-Oct-15	22-Jul-15A	22-Jul-15A				IP:	Review		
DD70600	IP's No Objection Received	0		14-Oct-15		22-Jul-15A				IP	s No Objectic	n Received	
DD70640	SO's Review	35	17-Sep-15	21-Oct-15	22-Jul-15A	22-Jul-15A			-		SO's Review	/	
DD70650	SO Approval with Condition R eceived	0		22-Oct-15		22-Jul-15A				♦	\$O Approval	with Condition	n Re
(C3) DDA f	for North Vent Shaft & Duct Permanent Structure								JL       			-! ! !	
DD67278	Review & Comment by JV	18	28-Aug-14	18-Sep-14	08-Apr-15A	30-Sep-15		   				1	
DD67280	Designer prepare DDA	10	19-Sep-14	30-Sep-14	02-Oct-15	13-Oct-15							
DD67288	Formal Submission of DDA to ICE/ IPs	0		30-Sep-14		13-Oct-15							
DD67290	Advanced Submission to SO	0		30-Sep-14		13-Oct-15							
DD67298	IPs/ SO's Advance Comments/ ICE Comments	28	01-Oct-14	28-Oct-14	14-Oct-15	10-Nov-15			JL 			-! ! !	
DD67300	Comments Received	0		28-Oct-14		10-Nov-15				-	-		
DD67308	Designer to Reply RtC + Update Submission	21	29-Oct-14	21-Nov-14	11-Nov-15	04-Dec-15							
DD67318	Submit Updated DDA to SO/ ICE/ IPs	0	22-Nov-14		05-Dec-15						-		
DD67328	ICEApproval & Issue Check Cert	12	22-Nov-14	05-Dec-14	05-Dec-15	18-Dec-15							
DD67338	Submit ICE Check Cert to SO	6	06-Dec-14	12-Dec-14	19-Dec-15	28-Dec-15	÷						
DD67348	IPs Review	28	22-Nov-14	19-Dec-14	05-Dec-15	01-Jan-16		1 1 1				-	
DD67368	SO's Review	35	22-Nov-14	26-Dec-14	05-Dec-15	08-Jan-16							
		35	22-110/-14	20-060-14	05-060-15	00-041-10							
North Surface Design Sub	ce Roadworks, Utility & Drainage works												
	A for Traffic Sign, Road Marking, Street Furnitures, Sign Ga	antry & etc	:				• · · · · · · · · · · · · · · · · · · ·						
DD01755	SO's Review	35	11-Dec-14	14-Jan-15	10-Apr-15A	30-Sep-15							
DD01760	SO Approval with Condition R eceived	0		14-Jan-15		30-Sep-15							
(C2) DDA f	for Sewerage, Drainage, Waterworks & Utility works for No	orth Landf	all										
DD02135	Designer to Reply RtC + Update Submission	21	15-Oct-14	07-Nov-14	09-Feb-15A	30-Sep-15		   				   	
DD02140	Submit Updated DDA to SO/ ICE/ IPs	0	08-Nov-14		02-Oct-15		-						
DD02145	ICEApproval & Issue Check Cert	12	08-Nov-14	21-Nov-14	02-Oct-15	15-Oct-15		1					
DD02150	Submit ICE Check Cert to SO	6	22-Nov-14	28-Nov-14	16-Oct-15	23-Oct-15	1						
DD02155	IPs Review	28	08-Nov-14	05-Dec-14	02-Oct-15	29-Oct-15	1						
DD02160	IP's No Objection Received	0		05-Dec-14		29-Oct-15	1						
DD02165	SO's Review	35	08-Nov-14	12-Dec-14	02-Oct-15	05-Nov-15							
DD02170	SO Approval with Condition R eceived	0		12-Dec-14		05-Nov-15							
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Major Proci							l						
S881 -													
PO103360	S881 - 13.6m dia - TBM - Manufacturing - Cutterhead	257	18-Jul-14	03-Jun-15	18-Jul-14A	14-Oct-15	S881 -	1/3.6m dia - TI	BM - Manufacturing - Cu	utterhead	1	1	

	Itentient										4	
S881 -											1	
PO103360	S881 - 13.6m dia - TBM ·	1 - Manufacturing - Cutterhead	257	18-Jul-14	03-Jun-15	18-Jul-14A	14-Oct-15	S881 - 13.6m dia - TBM - Manufa	acturing - Cu	rtterhead	i.	
PO103430	S881 - 13.6m dia - TBM -	- Workshop Assembly	70	02-Feb-15	06-May-15	10-Mar-15A	05-Oct-15	13.6m dia - TBM - Workshop Assem	ıbly		(	
PO103440	S881 - 13.6m dia - TBM	1 - Workshop Acceptance Test	0		06-May-15	+	05-Oct-15	- 13.6m dia - TBM - Workshop Accept	ance rest	4	1 1 1	
PO103450	S881 - 13.6m dia - TBM	1 - Disassembly and Packing for Transport	16	07-May-15	26-May-15	10-Jul-15A	14-Oct-15	S881 - 13.6m dia - TBM - Disassem	nbly and Pac	king for Transport	1 1 1	
PO103460	S881 - 13.6m dia - TBM -	- Delivery	20	27-May-15	15-Jun-15	15-Oct-15	03-Nov-15		Jelivery		;	
PO103470	S881 - 13.6m dia - TBM -	- Arrival to site	0		15-Jun-15		03-Nov-15	♦ S881 - 13.6m diạ - TBM - A	Arrival to site	-	1	
Design Subi											1	
·		Ibmarine Cable - Tunnelling Works									í.	
GS01460	CLP Review (4 weeks)		28	17-Mar-15	13-Apr-15	08-May-15A	29-Sep-15	weeks)			1	
GS01465	CLP Comment Received	d	0		13-Apr-15	+	29-Sep-15	Received		+		
L									_ <u></u>	<u>+' ' '</u>		
7 of 12		Planned Bar	TMCLK - No	rthern Conn	ection Sub-S	Sea Tunnel Se	ection		Date 12-Feb-14	Revision TMCLK/DBJGEN/PRG/98507	Checked	Approved SPo
	,						50001		08-Apr-14	TMCLK/DBJGEN/PRG/98507 Rev.B	SPa	WYu
	DWPF 15W39	Planned Bar - Critical			<u> </u>			▲ 電寶嘉	28-Aug-14 10-Jun-15	TMCLK/DBJGEN/PRG/98507 Rev.C TMCLK/DBJGEN/PRG/98507 Rev.F		WYu
ID. INCLA	JWPF 13W39	Planned Milestone	Detailed Wr	Jrks Program	nme (Rev. F	F) - Three Mo	onths 📘 🗖			TMOEND GROEN/ HO/2000 HOV.		
	'	Progress bar	1					Dragages HongKong				
Date: 27-Sep-1	5	<ul> <li>Progress Milestone</li> </ul>	1	Rolling	g Programme	ţ		e Bouygues Construction group s - Bouygues Joint Venture 寶嘉 - 布依格聯營				
	,	1	1	_	as of 27-Sep							

		Dur	Start 12	Finish		Finish	Jun	Jul	Aug	2015 Sep	Oct	Nov	Dec
GS01467	SO's Condition Approval	35	12-Mar-15	15-Apr-15	08-May-15A	02-Oct-15	Approval						
(G1) DDA fo DD6670	or TBM Tunnel Lining Structural Design - Sub-sea tunnel Sub-sea TBM Tunnel Segment - Fabrication	265	06-Oct-14	29-Aug-15	29-Nov-14A	25-May-16		1		Sub-sea	TBM Tunnel S	- ¢gment - Fat	rication
(G1) DDA fo	or TBM Tunnel Lining Settlement Anlysis & Confinement	Pressure ·	- Sub-sea tun	nel									
DD6720	IPs/ SO's Advance Comment s/ ICE Comments	28	25-Oct-14	21-Nov-14	10-May-15A	23-Jul-15A						+	
DD67258	Comments Received	0		21-Nov-14		23-Jul-15A		1 1 1					
DD6730	Designer to Reply RtC + Update Submission	21	22-Nov-14	16-Dec-14	23-Jul-15A	28-Jul-15A		1 1 1 1					
DD6740	Submit Updated DDA to SO/ ICE/ IPs	0	17-Dec-14		28-Jul-15A								
DD6750	ICEApproval & Issue Check Cert	12	17-Dec-14	02-Jan-15	28-Jul-15A	28-Jul-15A		, , , ,	}		   		
DD6760	Submit ICE Check Cert to SO	6	03-Jan-15	09-Jan-15	28-Jul-15A	28-Jul-15A		     					
DD6770	IPs Review	28	17-Dec-14	13-Jan-15	28-Jul-15A	10-Sep-15A		1 1 1 1					
DD6780	IP's No Objection Received	0		13-Jan-15		10-Sep-15A							
DD6830	SO's Review	35	17-Dec-14	20-Jan-15	28-Jul-15A	10-Sep-15A							
DD6840	SO Approval with Condition R eceived	0		20-Jan-15		10-Sep-15A		, , , ,	}				
Construction													
TBM10080	BM Tunnel - NB ID12.2m - S881 NB TBM Change diameter at North Ventilation Shaft	87	12-Dec-15	10-Mar-16	20-Nov-15	17-Feb-16							
Sub-sea TB	BM Tunnel - SB ID12.2m - S882												
TBM10560	SB - S882 TBM Crossing within NVS Steel bell	7	12-Dec-15	18-Dec-15	20-Nov-15	26-Nov-15							📕 SB - S
TBM10600	SB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6543 to 6521 - 22m)	5	19-Dec-15	23-Dec-15	27-Nov-15	01-Dec-15		'				+	SB
TBM10610	SB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6521 to 6451 - 70m)	15	24-Dec-15	07-Jan-16	02-Dec-15	16-Dec-15							
TBM10620	SB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6451 to 6371 - 80m)	17	08-Jan-16	24-Jan-16	17-Dec-15	02-Jan-16		, , , ,					
	M Tunnel - SB - Precast Invert Gallery							1 1 1					
ISIG1605	SB - ISIG Assembly for Sub-sea TBM Tunnel	7	24-Dec-15	30-Dec-15	02-Dec-15	08-Dec-15		 	ļ			 	؛ 🗖
	nel Cross Passage & Internal Structure												
Design Subn (G4) DDA fo	nilssion or Cross Passage - Permanent works - incl. Geotechnical	Assessme	ent - Sub-sea	tunnel									
AN 1180	Early DDASub-sea Cross Passage Lining & CPOpening	151	03-Jun-14	29-Nov-14	03-Jun-14A	13-Jul-15A		1 1 1					
DD01100	Preparation of DDACross Passage incl. Detailed Geotechnical Assessment	0	01-Dec-14	01-Dec-14	13-Jul-15A	13-Jul-15A	ment						
DD01105	Review & Comment by JV	6	01-Dec-14	06-Dec-14	13-Jul-15A	29-Sep-15						1     	
DD01110	Designer prepare DDA	12	08-Dec-14	20-Dec-14	30-Sep-15	14-Oct-15		     					
DD01115	Formal Submission of DDAto ICE/ IPs	0		20-Dec-14		14-Oct-15							
DD01120	Advanced Submission to SO	0		20-Dec-14		14-Oct-15							
DD01125	IPs/ SO's Advance Comments/ ICE Comments	28	21-Dec-14	17-Jan-15	15-Oct-15	11-Nov-15		1 1 1					
DD01130	Comments Received	0		17-Jan-15		11-Nov-15			1			1     	
DD01135	Designer to Reply RtC + Update Submission	21	19-Jan-15	11-Feb-15	12-Nov-15	05-Dec-15	sion						
DD01140	Submit Updated DDA to SO/ ICE/ IPs	0	12-Feb-15		07-Dec-15								
DD01145	ICEApproval & Issue Check Cert	12	12-Feb-15	04-Mar-15	07-Dec-15	19-Dec-15	rt						
DD01150	Submit ICE Check Cert to SO	6	05-Mar-15	11-Mar-15	21-Dec-15	29-Dec-15	• •						
DD01155	IPs Review	28	12-Feb-15	11-Mar-15	07-Dec-15	03-Jan-16							
DD01180	SO's Review	35	12-Feb-15	18-Mar-15	07-Dec-15	10-Jan-16		   					
ETWB TCW	/No 15/2005 - Cross Passage Ground Treatment for Sub-s	ea TBM T	ſunnel										
GEO1270	1st Submission to GEO - ETWB TCW No 15/2005 - Cross Passage Ground Treatment for Sub-sea TBM Tunnel	0		13-Jul-15		29-Sep-15		🔶 1st	Submission	d GEO - ET	WBTCW No	15/2005 - Cr	bss Passage Gr
GEO1275	1st Submission GEO Review	28	14-Jul-15	10-Aug-15	29-Sep-15	26-Oct-15			1st S	ubmission (	ÈO Review	: : : !	
GEO1280	Received GEO Comment	0		10-Aug-15		26-Oct-15		, , ,	🔶 Rece	ived GEO-C	omment		
GEO1285	Prepare Response to Comment	12	11-Aug-15	24-Aug-15	27-Oct-15	09-Nov-15				Prepare Re	sponse to Cor	nment	
GEO1290	2nd Submission to GEO	0		24-Aug-15		09-Nov-15		, , ,	•	2nd Submi	sion to GEO		
GEO1295	2nd GEO Review	28	25-Aug-15	21-Sep-15	10-Nov-15	07-Dec-15			5		2nd GEO Rev	iew	
GEO1490	Received 2nd GEO Comment	0		21-Sep-15		07-Dec-15		   			Received 2nd	GEO Com	hent
GEO1495	Prepare Respond to 2nd Comment	12	22-Sep-15	07-Oct-15	08-Dec-15	21-Dec-15				(	Prepar	e Respond to	2nd Comment
GEO1500	3rd Submission to GEO	0		07-Oct-15		21-Dec-15					🔶 3rd Sul	bmission to (	SEO
GEO1505	3rd GEO Review	28	08-Oct-15	04-Nov-15	22-Dec-15	18-Jan-16		1 1 1				3rd GE	Review
	ement Submission					_		_					
Method Star MS2640	Itement of Cross Passage Formwork	28	11-Jun-15	08-Jul-15	09-Apr-16	06-May-16		SO/6	Review			; ; ;	
MS2650	SO's Approval	0		08-Jul-15		06-May-16		◆ SO's/					
outhern Lan		Ť						- <del>-</del> 308/	i i				
	ndfall Cover Tunnel												
Design Subn								     					
	or South C&C Box & Approach Ramp	10	40 Mar 4 1	00 Dec 41	00.141.151	04 14 15		 ! !					
	Preparation DDASth C&C Box and Approach Ramp	18	18-Nov-14	08-Dec-14	02-Jul-15A	31-Jul-15A		1					
DD00470	Review & Comment by JV	18	09-Dec-14	31-Dec-14	31-Jul-15A	30-Sep-15		1 1 1		   			
DD00480	Designer prepare DDA	10	02-Jan-15	13-Jan-15	02-Oct-15	13-Oct-15		1		   			
DD00490	Formal Submission of DDAto ICE/ IPs	0		13-Jan-15		13-Oct-15	l						
DD00500	Advanced Submission to SO	0		13-Jan-15		13-Oct-15		1					
DD00510	IPs/SO's Advance Comments/ ICE Comments	28	14-Jan-15	10-Feb-15	14-Oct-15	10-Nov-15	ments						
DD00520	Comments Received	0		10-Feb-15		10-Nov-15							
DD00530	Designer to Reply RtC + Update Submission	21	11-Feb-15	13-Mar-15	11-Nov-15	04-Dec-15	date Submiss	ion		1 1			
DD00540	Submit Updated DDA to SO/ ICE/ IPs	0	14-Mar-15		05-Dec-15		ICE/ IPs	, , ,		, , ,			
DD00550	ICEApproval & Issue Check Cert	18	14-Mar-15	08-Apr-15	05-Dec-15	28-Dec-15	sue Check C	ert		1			
of 12		IK - No	rthern Conn	ection Sub C	ea Tunnel S	ection				Date	Rev		Checked
51 I <i>L</i>	Planned Bar - Critical	י∟ו <i>ז</i> - וא0		S-DUOLI SUD-S	ea i unnel S		<b> ∡</b> → −	<b>-</b> 1		12-Feb-14 08-Apr-14 28-Aug-14		PRG/98507 PRG/98507 Rev. B PRG/98507 Rev. C	
			aulia Duanua.	mmo (Dov	) - Three Mo	nthe	春寶嘉	롬 🗌 🧖		10-Jun-15		PRG/98507 Rev. F	
D: TMCLK_D	DWPF 15W39   Planned Milestone De	tailed W	orks Program	nine (nev. r	, - 11166 MO			es 🛛 🚺 🗍	BOUYGUES LAVAUX PUBLICS				

D	Activity Name	Orig Dur	Planned Start	Planned Finish	Current Start	Current Finish	Jun Jul Aug	2015 Sep		Nov	Dec
DD00570	IPs Review	28	14-Mar-15	10-Apr-15	05-Dec-15	01-Jan-16					
DD00620	SO's Review	35	14-Mar-15	17-Apr-15	05-Dec-15	08-Jan-16					
GEO1300	W No. 15/2005 - Geotechnical Risk Assessment C&C T 1st Submission to GEO - ETWB TCW No. 15/2005 - Geotechnical Risk Assesn		hern Landfall	11-Jun-15		18-Nov-15	1st Submission to GEO - E		15/2005 - G	otechnical B	k Assesment i
GEO1305	Tunnels at Souththern Landfall 1st Submission GEO Review	28	12-Jun-15	09-Jul-15	19-Nov-15	16-Dec-15	1st Submission				
GEO1310	Received GEO Comment	0	12-001-13	09-Jul-15	13-1400-13	16-Dec-15	Received GEO		v		
		12	10 14 15		17-Dec-15						
GEO1315	Prepare Response to Comment		10-Jul-15	23-Jul-15	17-Dec-15	02-Jan-16		esponse to C			
GEO1320	2nd Submission to GEO	0	04 14 15	23-Jul-15	00 las 10	02-Jan-16	◆ 2nd Subm				
GEO1325	2nd GEO Review	28	24-Jul-15	20-Aug-15	03-Jan-16	30-Jan-16		2nd GEO F	₹eview ·¦	¦ 	
(F3) AIP 10 DD69690	emp.Support for South.C&C, Portal & ELS	28	10-Jan-15	06-Feb-15	04-Jun-15A	29-Sep-15					
DD69700	IP's No Objection Received	0		06-Feb-15		29-Sep-15					
DD69710	SO's Review	35	10-Jan-15	13-Feb-15	04-Jun-15A	01-Oct-15					
DD69720	SO Approval with Condition R eceived	0		13-Feb-15		02-Oct-15					
	Temp.Support for South.C&C, Portal & ELS										
DD04000	Preparation of DDASouth C&C ELS	18	01-Apr-15	25-Apr-15	02-Oct-15	23-Oct-15	n of DDASouth C&C ELS				
DD04010	Review & Comment by JV	18	27-Apr-15	18-May-15	24-Oct-15	13-Nov-15	Review & Comment by JV				
DD04020	Designer prepare DDA	10	19-May-15	30-May-15	14-Nov-15	25-Nov-15	Designer prepare DDA				
DD04030	Formal Submission of DDAto ICE/ IPs	0		30-May-15		25-Nov-15	Formal Submission of DDAto K	E/iPs			
DD04040	Advanced Submission to SO	0		30-May-15		25-Nov-15	Advanced Submission to SO		·		
DD04050	IPs/ SO's Advance Comments/ ICE Comments	28	31-May-15	27-Jun-15	26-Nov-15	23-Dec-15	IPs/ SO's Advance C	omments/IC	E Comments		
DD04060	Comments Received	0		27-Jun-15		23-Dec-15	_				
DD04060	Designer to Reply RtC + Update Submission	21	29-Jun-15	27-Jun-15 23-Jul-15	24-Dec-15	23-Dec-15	Comments Receive		+ Update Subr	niecion	
				20-001=10		20-0ai = 10					
DD04080	Submit Updated DDA to SO/ ICE/ IPs	0	24-Jul-15	00 4	21-Jan-16	00 5-4 10			SO/ ICE/ IPs	¦	
DD04090	ICEApproval & Issue Check Cert	12	24-Jul-15	06-Aug-15	21-Jan-16	03-Feb-16			ssue Check Ce		
DD04100	Submit ICE Check Cert to SO	6	07-Aug-15	13-Aug-15	04-Feb-16	17-Feb-16			heck Cert to SC	ע 	
DD04110	IPs Review	28	24-Jul-15	20-Aug-15	21-Jan-16	17-Feb-16		IPs Reviev			
DD04120	IP's No Objection Received	0		20-Aug-15		17-Feb-16			ection Receive	d	
DD04160	SO's Review	35	24-Jul-15	27-Aug-15	21-Jan-16	24-Feb-16		SO's Re	view		
DD04170	SO Approval with Condition R eceived	0		27-Aug-15		24-Feb-16		SO Appr	oral with Condi	tion R eceive	- -
	W No 15/2005 - ELS Design for C&C Tunnel at Souther										
GEO1390	1st Submission to GEO - ETWB TCW No 15/2005 - ELS Design for C&C Tunne Southern Landfall			06-Aug-15		03-Feb-16	◆ 1st			1	(2005 - ELS Des
GEO1395	1st Submission GEO Review	28	07-Aug-15	03-Sep-15	04-Feb-16	02-Mar-16		1st S	ubmission GEC	Review	
GEO1400	Received GEO Comment	0		03-Sep-15		02-Mar-16		Rece	ed GEO Com	ment	
GEO1405	Prepare Response to Comment	12	04-Sep-15	17-Sep-15	03-Mar-16	16-Mar-16		1	Prepare Resp	hse to Comn	hent
GEO1410 GEO1415 Method Sta	2nd Submission to GEO 2nd GEO Review atement Submission	0	04-Sep-15 18-Sep-15	17-Sep-15 17-Sep-15 15-Oct-15	03-Mar-16 17-Mar-16	16-Mar-16 16-Mar-16 13-Apr-16		•	nd Submissic		
GEO1410 GEO1415 Method Sta Method St MS1700	2nd Submission to GEO 2nd GEO Review atement Submission tatement of Construction Methodology of C&C Tunnel Preparation Method Statement for C&C Tunnels	0 28 els 25	· · · · · · · · · · · · · · · · · · ·	17-Sep-15 15-Oct-15 30-Apr-15		16-Mar-16 13-Apr-16 29-Oct-15	ion Method Statement for C&C Tunn	els	nd Submissic	m to GEO	
GEO1410 GEO1415 Method Sta Ms1700 MS1710	2nd Submission to GEO 2nd GEO Review atement Submission tatement of Construction Methodology of C&C Tunnel Preparation Method Statement for C&C Tunnels Submit Method Statement to SO	0 28 els 25 0	18-Sep-15 28-Mar-15	17-Sep-15 15-Oct-15	17-Mar-16 29-Sep-15	16-Mar-16 13-Apr-16 29-Oct-15 29-Oct-15	ion Method Statement for C&C Tunn Aethod Statement to SO	els	nd Submissic	m to GEO	
GEO1410 GEO1415 Method Sta Ms1700 MS1710 MS1720	2nd Submission to GEO 2nd GEO Review atement Submission tatement of Construction Methodology of C&C Tunnel Preparation Method Statement for C&C Tunnels	0 28 els 25 0 28	18-Sep-15 28-Mar-15 01-May-15	17-Sep-15 15-Oct-15 30-Apr-15 30-Apr-15 28-May-15	29-Sep-15 30-Oct-15	16-Mar-16 13-Apr-16 29-Oct-15 29-Oct-15 26-Nov-15		ak	nd Submissic	m to GEO	
GEO1410 GEO1415 Method Sta Ms1700 MS1710	2nd Submission to GEO 2nd GEO Review atement Submission tatement of Construction Methodology of C&C Tunnel Preparation Method Statement for C&C Tunnels Submit Method Statement to SO	0 28 els 25 0	18-Sep-15 28-Mar-15	17-Sep-15 15-Oct-15 30-Apr-15 30-Apr-15	17-Mar-16 29-Sep-15	16-Mar-16 13-Apr-16 29-Oct-15 29-Oct-15	Nethod Statement to SO		nd Submissic	m to GEO	
GEO1410 GEO1415 Method Sta Ms1700 MS1710 MS1720	2nd Submission to GEO         2nd GEO Review         atement Submission         tatement of Construction Methodology of C&C Tunnel         Preparation Method Statement for C&C Tunnels         Submit Method Statement to SO         SO Reviews & Comments	0 28 els 25 0 28	18-Sep-15 28-Mar-15 01-May-15	17-Sep-15 15-Oct-15 30-Apr-15 30-Apr-15 28-May-15	29-Sep-15 30-Oct-15	16-Mar-16 13-Apr-16 29-Oct-15 29-Oct-15 26-Nov-15	Aethod Statement to SO SO Reviews & Comments	>	nd Submissic	m to GEO	
GE01410 GE01415 Method Sta Ms1700 MS1710 MS1720 MS1730	2nd Submission to GEO         2nd GEO Review         atement Submission         tatement of Construction Methodology of C&C Tunnels         Preparation Method Statement for C&C Tunnels         Submit Method Statement to SO         SO Reviews & Comments         Re-submission	els 28 28 25 0 28 18	18-Sep-15 28-Mar-15 01-May-15 29-May-15	17-Sep-15 15-Oct-15 30-Apr-15 30-Apr-15 28-May-15 18-Jun-15	29-Sep-15 30-Oct-15 27-Nov-15	16-Mar-16 13-Apr-16 29-Oct-15 29-Oct-15 26-Nov-15 17-Dec-15	Aethod Statement to SO SO Reviews & Comments Re-submission		nd Submissic	m to GEO	
GEO1410 GEO1415 Method Sta Ms1700 MS1710 MS1720 MS1730 MS1730 MS1740 MS1750 Construction	2nd Submission to GEO         2nd GEO Review         Atement Submission         tatement of Construction Methodology of C&C Tunnels         Preparation Method Statement for C&C Tunnels         Submit Method Statement to SO         SO Reviews & Comments         Re-submission         SO's Review         SO's Approval	els 28 0 28 25 0 28 28 25 0 18 28 28 0 0 0	18-Sep-15 28-Mar-15 01-May-15 29-May-15 19-Jun-15	17-Sep-15 15-Oct-15 30-Apr-15 30-Apr-15 28-May-15 18-Jun-15 16-Jul-15 16-Jul-15	29-Sep-15 30-Oct-15 27-Nov-15 18-Dec-15	16-Mar-16 13-Apr-16 29-Oct-15 29-Oct-15 26-Nov-15 17-Dec-15 14-Jan-16 14-Jan-16	Nethod Statement to SO SO Reviews & Comments Re-submission SO's Review		nd Submissic	m to GEO	
GEO1410 GEO1415 Method Sta Method Sta MS1700 MS1710 MS1720 MS1720 MS1750 Construction DDP11520	2nd Submission to GEO         2nd GEO Review         atement Submission         tatement of Construction Methodology of C&C Tunnel         Preparation Method Statement for C&C Tunnels         Submit Method Statement to SO         SO Reviews & Comments         Re-submission         SO's Review         SO's Review         SO's Approval         On         South C&C Tunnel - Diaphragm Wall	els 28 28 25 0 28 28 18 28	18-Sep-15 28-Mar-15 01-May-15 29-May-15	17-Sep-15 15-Oct-15 30-Apr-15 30-Apr-15 28-May-15 18-Jun-15 16-Jul-15	29-Sep-15 30-Oct-15 27-Nov-15	16-Mar-16 13-Apr-16 29-Oct-15 29-Oct-15 26-Nov-15 17-Dec-15 14-Jan-16	Nethod Statement to SO SO Reviews & Comments Re-submission SO's Review		nd Submissic	m to GEO	
GEO1410 GEO1415 Method Sta Ms1700 MS1710 MS1720 MS1730 MS1730 MS1740 MS1750 Constructi DDP11520 outh Retric	2nd Submission to GEO         2nd GEO Review         atement Submission         tatement of Construction Methodology of C&C Tunnel         Preparation Method Statement for C&C Tunnels         Submit Method Statement to SO         SO Reviews & Comments         Re-submission         SO's Review         SO's Approval         On         South C&C Tunnel - Diaphragm Wall         eval Shaft	els 28 0 28 25 0 28 28 25 0 18 28 28 0 0 0	18-Sep-15 28-Mar-15 01-May-15 29-May-15 19-Jun-15	17-Sep-15 15-Oct-15 30-Apr-15 30-Apr-15 28-May-15 18-Jun-15 16-Jul-15 16-Jul-15	29-Sep-15 30-Oct-15 27-Nov-15 18-Dec-15	16-Mar-16 13-Apr-16 29-Oct-15 29-Oct-15 26-Nov-15 17-Dec-15 14-Jan-16 14-Jan-16	Nethod Statement to SO SO Reviews & Comments Re-submission SO's Review		nd Submissic	m to GEO	
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DD03510	Preparation of DDA Temp Support for Sth Retrieval Shaft	18	01-Apr-15	25-Apr-15	02-Oct-15	23-Oct-15	Jun         Jul         Aug         Sep         Oct         Nov         Dec         C           nof DDATemp Support for Sth Retrieval Shaft
DD03520	Review & Comment by JV	18	27-Apr-15	18-May-15	24-Oct-15	13-Nov-15	teview & Comment by JV
DD03530	Designer prepare DDA	6	19-May-15	26-May-15	14-Nov-15	20-Nov-15	Designer prepare DDA
DD03540	Formal Submission of DDA to ICE/ IPs	0		26-May-15		20-Nov-15	Formal Submission of DDA to ICE/ IPs
DD03550	Advanced Submission to SO	0		26-May-15		20-Nov-15	Advanced Submission to SO
DD03560	IPs/ SO's Advance Comments/ ICE Comments	28	27-May-15	23-Jun-15	21-Nov-15	18-Dec-15	Ps/ SO's Advance Comments/ ICE Comments
DD03570	Comments Received	0		23-Jun-15		18-Dec-15	Comments Received
DD03580	Designer to Reply RtC + Update Submission	21	24-Jun-15	18-Jul-15	19-Dec-15	15-Jan-16	Designer to Reply RtC + Update Submission
DD03590	Submit Updated DDA to SO/ ICE/ IPs	0	20-Jul-15		16-Jan-16		Submit Updated DDAtesCV ICE/ IPs
DD03600	ICEApproval & Issue Check Cert	12	20-Jul-15	01-Aug-15	16-Jan-16	29-Jan-16	ICE Approval & Issue Check Cert
DD03610	Submit ICE Check Cert to SO	6	03-Aug-15	08-Aug-15	30-Jan-16	05-Feb-16	Submit ICE Check Cert to SO
DD03620	IPs Review	28	20-Jul-15	16-Aug-15	16-Jan-16	12-Feb-16	IPs Review
DD03630	IP's No Objection Received	0		16-Aug-15		12-Feb-16	◆ IP's No Operation Received
DD03670	SO's Review	35	20-Jul-15	23-Aug-15	16-Jan-16	19-Feb-16	SO's Review
DD03680	SO Approval with Condition R eceived	0		24-Aug-15		19-Feb-16	SO Approval with Condition R eceived
GEO1330	N No 15/2005 - ELS Design for TBM Retrieval Shaft at South 1st Submission to GEO - ETWB TCW No 15/2005 - ELS Design for TBM Retrieval Shaft	ern Land	dfall	24-Aug-15		19-Feb-16	◆ 1st Submission to GEO - ETWB TCW No 15/2005 - E
GEO1335	at Southern Landfall 1st Submission GEO Review	28	24-Aug-15	20-Sep-15	20-Feb-16	18-Mar-16	1st Submission GEO Review
GEO1340	Received GEO Comment	0		21-Sep-15		18-Mar-16	Received GEO Comment
GEO1345	Prepare Response to Comment	12	21-Sep-15	06-Oct-15	19-Mar-16	06-Apr-16	Prepare Response to Comment
GEO1350	2nd Submission to GEO	0		06-Oct-15		06-Apr-16	◆ 2nd Submission to ĢEO
GEO1355	2nd GEO Review	28	07-Oct-15	03-Nov-15	07-Apr-16	04-May-16	2nd GEO Review
(F2) AIP Te	emp works of Ground Treatment for TBMs passing under So	uthern	Landfall			-	
AP01905	Review & Comment by JV	18	23-Sep-14	15-Oct-14	15-Apr-15A	02-Oct-15	
AP01910	Designer Prepare AIP	12	16-Oct-14	29-Oct-14	03-Oct-15	16-Oct-15	
AP01915	Formal Submission of AIP to ICE/IPs	0		29-Oct-14		16-Oct-15	
AP01920	Advanced Submission of AIP to SO	0		29-Oct-14		16-Oct-15	
AP01925	Review & Comment by SO/ ICE/ IPs	28	30-Oct-14	26-Nov-14	17-Oct-15	13-Nov-15	
AP01930	Advance Commants from SO/ Comments from ICE/ IPs Received	0		26-Nov-14		13-Nov-15	
AP01935	Designer to Prepare RtC & Updated AIP	18	27-Nov-14	17-Dec-14	14-Nov-15	04-Dec-15	
AP01940	Submisson of AIP to SO/ ICE together with Reply To Comment (RTC)	0		17-Dec-14		04-Dec-15	RTC)
AP01945	Reply to IPs Comments in RTC	0		17-Dec-14		04-Dec-15	
AP01950	ICEApproval & Issue of Design Check Cert.	18	18-Dec-14	10-Jan-15	05-Dec-15	28-Dec-15	
AP01980	SO Review (35 Days)	35	19-Dec-14	22-Jan-15	06-Dec-15	09-Jan-16	
	Femp works of Ground Treatment for TBMs passing under S	outhern	Landfall				
DD04750	Review & Comment by JV	18	27-Apr-15	18-May-15	15-Apr-15A	12-Jan-16	eview & Comment by JV
DD04810	Designer to Reply RtC + Update Submission	21	24-Jun-15	18-Jul-15	17-Feb-16	11-Mar-16	Designer to Reply RtC + Update Submission
DD04820	Submit Updated DDA to SO/ ICE/ IPs	0	20-Jul-15		12-Mar-16		Submit Updated DD7tesO/ ICE/ IPs
DD04830	ICEApproval & Issue Check Cert	12	20-Jul-15	01-Aug-15	12-Mar-16	29-Mar-16	ICE Approval & Issue Check Cert
DD04840	Submit ICE Check Cert to SO	6	03-Aug-15	08-Aug-15	30-Mar-16	06-Apr-16	Submit ICE Check Cert to SO
DD04850	IPs Review	28	20-Jul-15	16-Aug-15	12-Mar-16	08-Apr-16	
DD04860	IP's No Objection Received	0		16-Aug-15		08-Apr-16	◆ IP'\$ No Obpetion Received
DD04900	SO's Review	35	20-Jul-15	23-Aug-15	12-Mar-16	15-Apr-16	SO's Review,
DD04910	SO Approval with Condition R eceived	0		24-Aug-15		15-Apr-16	SO Approvid with Condition R eceived
GEO1360	N No 15/2005 - ELS Design for Temporary Measures for Grou 1st Submission to GEO - ETWB TCW No. 15/2005 - ELS Design for Gournd	nd Imp	rovement	24-Aug-15		15-Apr-16	◆ 1st Submusion to GEO - ETWB TCW No. 15/2005 - E
GEO1365	Improvement at Southern Landfall 1st Submission GEO Review	28	24-Aug-15	20-Sep-15	16-Apr-16	13-May-16	1st Submission GEO Review
GEO1370	Received GEO Comment	0	24 Aug 10	21-Sep-15		13-May-16	
GEO1370	Prepare Response to Comment	12	21-Sep-15	06-Oct-15	16-May-16	28-May-16	Prepare Response to Comment
GEO1375	2nd Submission to GEO	0		06-Oct-15	i viay-10	28-May-16	Prepare Response to Comment ◆ 2nd Submission to GEO
GEO1380	2nd GEO Review	28	07-Oct-15	03-Nov-15	29-May-16	28-May-16	
	y Crane Support/Foundations in Southern Landfall						
DD69730	Preparation of IFA Gantry Crane / Foundation	18	27-Jul-15	15-Aug-15	18-Feb-16	09-Mar-16	Preparation of FA Gantry Crane / Foundation
DD69740	Review & Comment by JV	18	17-Aug-15	05-Sep-15	10-Mar-16	02-Apr-16	Review & Commentiby JV
DD69750	Designer prepare IFA	10	07-Sep-15	17-Sep-15	05-Apr-16	15-Apr-16	Designer prepare IFA
DD69760	Formal Submission of IFA to ICE/ IPs	0		17-Sep-15		15-Apr-16	♣ formal Submişsion of IFA to ICE/ IPs
DD69770	Advanced Submission to SO	0		17-Sep-15		15-Apr-16	Advanced Submission to SQ
DD69780	IPs/ SO's Advance Comments/ ICE Comments	28	18-Sep-15	15-Oct-15	16-Apr-16	13-May-16	IPs/ SO's Advance Comments/ I
DD69790	Comments Received	0		15-Oct-15		13-May-16	Comments Received
DD69800	Designer to Reply RtC + Update Submission	21	16-Oct-15	10-Nov-15	16-May-16	08-Jun-16	Designer to Reply Rt
DD69810	Submit Updated IFA to SO/ ICE/ IPs	0	11-Nov-15		10-Jun-16		Submit Updated IFA t
DD69820	ICEApproval & Issue Check Cert	12	11-Nov-15	24-Nov-15	10-Jun-16	23-Jun-16	ICEApprova &
DD69830	IPs Review	28	11-Nov-15	08-Dec-15	10-Jun-16	07-Jul-16	IPs Revie
DD69840	IP's No Objection Received	0		08-Dec-15		07-Jul-16	♦ IP's No Ot
DD69850	SO's Review	35	11-Nov-15	15-Dec-15	10-Jun-16	14-Jul-16	SO'S R
DD69860	SO Approval with Condition R eceived	0		15-Dec-15		14-Jul-16	♦ SO Apr
Method Sta	Itement Submission						
	atement of Construction Methodology of Retrieval Shaft						
10 of 12	Planned Bar TMCL	K - No	thern Conne	ection Sub-S	ea Tunnel S	ection	Date Revision Cheded . 12-Feb-14 TMCLK/DBJGEN/PRG/09507 WYu SPo
	Planned Bar - Critical		orks Prograr	nme (Rev. F Programme	) - Three Mc		香賀嘉 港賀嘉 Dragages HongKong

tivity ID	Activity Name		Orig	Planned	Planned	Current Start	Current							
			Dur	Start	Finish		Finish	Jun	Jul	2015 Aug Sep	Oct	Nov	Dec	2016 Jan
MS1600	Preparation Method Statement for Retrieval	Shaft	25	24-Aug-15	21-Sep-15	20-Feb-16	19-Mar-16	1	1				ment for Retri	eval Shaft
MS1610	Submit Method Statement to SO SO Reviews & Comments		28	00 Son 15	21-Sep-15 19-Oct-15	20-Mar-16	19-Mar-16 16-Apr-16		   	••••••	Submit Metho	÷		
MS1620 MS1630	Be-submission		18	22-Sep-15 20-Oct-15	19-0ct-15	18-Apr-16	09-May-16				S		& Comments	
MS1640	SO's Review		28	11-Nov-15	08-Dec-15	10-May-16	06-Jun-16		, , , ,				SO's R	Review
MS1650	SO's Approval		0		08-Dec-15		06-Jun-16						SO's A	
Constru	ction													
DDP11430	South Landfall GI Works/DW Setting Up		48	06-Aug-15	02-Oct-15	17-Dec-15	20-Feb-16					ndfall GI Wor	orks/DW Settir	ng Up
DDP11450			98	03-Oct-15	29-Jan-16	14-Mar-16	14-Jul-16	1				:	1	
South Ap	proach Ramp													
DDP11840		Sheet Piles Wall	126	03-Oct-15	09-Mar-16	22-Feb-16	26-Jul-16					:	:	
DDP11850	Appoach Ramp (CH1580-1850) - Tension Pi	iles	103	03-Oct-15	04-Feb-16	22-Feb-16	28-Jun-16					·		
	ntilation Building													
	Submission A for South Vent.Bldg. GBP & Arch	Submission												
DD01425	_		28	30-Oct-14	26-Nov-14	25-Feb-15A	30-Jun-15A							
DD01430	Comments Received		0		26-Nov-14		30-Jun-15A	· +						
DD01435	Designer to Reply RtC + Update Submissio	n	21	27-Nov-14	20-Dec-14	30-Jun-15A	22-Oct-15							
DD01440	Submit Updated DDA to SO/ ICE/ IPs		0	22-Dec-14		23-Oct-15		-						
DD01445			18	22-Dec-14	14-Jan-15	23-Oct-15	12-Nov-15							
DD01450			6	15-Jan-15	21-Jan-15	13-Nov-15	19-Nov-15							
DD01455			28	22-Dec-14	18-Jan-15	23-Oct-15	19-Nov-15							
DD01460			35	22-Dec-14	18-Jan-15	02 Oct 15	19-Nov-15							
DD01465			0	22-Dec-14	25-Jan-15 	23-Oct-15	26-Nov-15	1						
	A for South Vent.Bldg. Foundation	n Docian	0		20-541-15		20-1409-13							
DD01500		n Design	18	01-Apr-15	25-Apr-15	23-Oct-15	12-Nov-15	n of DDASth	VB F oundati	dn				
DD01505	Review & Comment by JV		18	27-Apr-15	18-May-15	13-Nov-15	03-Dec-15	Review & Con	ment by JV					
DD01510	Designer prepare DDA		10	19-May-15	30-May-15	04-Dec-15	15-Dec-15	Designer	prepare DD	4				
DD01515	Formal Submission of DDAto ICE/ IPs		0		30-May-15		15-Dec-15	🔶 Formal S	ubmission of	DDAto ICE/ IPs	1			
DD01520	Advanced Submission to SO		0		30-May-15		15-Dec-15	Advanced	Submission	to SO				
DD01525	IPs/SO's Advance Comments/ICE Comme	ents	28	31-May-15	27-Jun-15	16-Dec-15	12-Jan-16	-	IPs/ SO's A	Advance Comments/ IC	Comments		· · · · · · · · · · · · · · · · · · ·	
DD01530			0		27-Jun-15		12-Jan-16	•	Comment	sReceived				
DD01535		n	21	29-Jun-15	23-Jul-15	13-Jan-16	05-Feb-16			Designer to Reply RtC				
DD01540			0	24-Jul-15		06-Feb-16			•	Submit Updated DDA				
DD01545			18	24-Jul-15	13-Aug-15	06-Feb-16	04-Mar-16			ICE Approval 8		+		
DD01550			28	14-Aug-15 24-Jul-15	20-Aug-15	05-Mar-16	11-Mar-16 04-Mar-16		_		Check Cert to	so		
DD01550			0	24-Jul- 15	20-Aug-15	00-10	04-Mar-16		-	IP's No Opt				
DD01580			35	24-Jul-15	27-Aug-15	06-Feb-16	11-Mar-16		_	SO's Rev		-		
DD01585			0		27-Aug-15		11-Mar-16		_		val with Condi	tion R eceive	- 	
(l2) DD	A for South Vent.Bldg.Structural I	Design incl.Vent.Connec	tions									+		
DD67808	-		18	28-Jan-15	17-Feb-15	27-Nov-15	17-Dec-15	Design incl.	ent Conn					
DD67818	Review & Comment by JV		18	18-Feb-15	17-Mar-15	18-Dec-15	11-Jan-16							
	A Temp.works for Construction o	of Sth.Vent.Bldg.		01 L . 15	00.1.15	10 D 15	00 1 10							
DD04560			18	01-Jun-15 23-Jun-15	22-Jun-15 14-Jul-15	16-Dec-15 09-Jan-16	08-Jan-16 29-Jan-16			of DDA South VB ELS				
DD04580	· · · · · · · · · · · · · · · · · · ·		10	15-Jul-15	25-Jul-15	30-Jan-16	17-Feb-16		Re	view & Comment by JV				
DD04590			0	10-001-10	25-Jul-15	50-0ai-10	17-Feb-16			Formal Submission of		- Pe		
DD04600			0		25-Jul-15		17-Feb-16		•	Advanced Submission		5		
DD04610	IPs/ SO's Advance Comments/ ICE Comme	ents	28	26-Jul-15	22-Aug-15	18-Feb-16	16-Mar-16				vance Comm	¦ ients/ICECc	dmments	
DD04620			0		22-Aug-15		16-Mar-16	· <del> </del>		¢ Comments				
DD04630	Designer to Reply RtC + Update Submissio	n	21	24-Aug-15	16-Sep-15	17-Mar-16	14-Apr-16				esigner to Re	ply RtC + Ur	¦ pdate Submiss	sion
DD04640	Submit Updated DDA to SO/ ICE/ IPs		0	17-Sep-15		15-Apr-16			1	•	ubmit Update	d DDA to SO	/ ICE/ IPs	
DD04650	ICE Approval & Issue Check Cert		12	17-Sep-15	02-Oct-15	15-Apr-16	28-Apr-16				ICEApp	pval & Issue	Check Cert	
DD04660	Submit ICE Check Cert to SO		6	03-Oct-15	09-Oct-15	29-Apr-16	06-May-16				Subm	t ICE Check	Cert to SO	
DD04670	IPs Review		28	17-Sep-15	14-Oct-15	15-Apr-16	12-May-16		·	(	IPs	Review		1
DD04680	IP's No Objection Received		0		14-Oct-15		12-May-16				🔶 IP's	No Objection	Received	
DD04720	SO's Review		35	17-Sep-15	21-Oct-15	15-Apr-16	19-May-16					SO's Review		
DD04730	SO Approval with Condition R eceived		0		22-Oct-15		19-May-16				•	\$O Approval	with Condition	n Receive
Constru			64	06 Aug 15	22 Oct 15	20. San 15	14-Dec-15					Na-1-11'	d Oatilaa 11a 1	
DDP11930			132	06-Aug-15 23-Oct-15	22-Oct-15	29-Sep-15	26-Oct-16	1	1 1 1				& Setting Up F	Piling Rigs
DDP11940	S - Piling (Socket H-piles) S -Sheet Piling		48	23-Oct-15	08-Apr-16 17-Dec-15	20-May-16 15-Dec-15	18-Feb-16					!		-Sheet Pili
	rface Roadworks, Utility & Draina	ae works							1					SHOEL PIII
	Submission								     			     	     	
(E1) AIF	P - Southern Landfall Seawall Mod		36	08-Nov-16	19-Dec-16	08-Jun-15A	08-Jul-15A							
AF00900			30	08-1107-18	19-Dec-16	06-JUII-15A	06-JUI-15A	1	1		1	1	1	
age 11 of 12			FMCLK - Nort	hern Conn	ection Sub C	ea Tunnel C	ection			Date	Re	vision	Checked	Approved
-		Planned Bar I Planned Bar - Critical						· 香宇 =	5 / -	12-Feb-14 08-Apr-14 28-Aug-14	TMCLK/DBJGEN	/PRG/98507 Rev. B /PRG/98507 Rev. C	B SPa C CLa	SPo WYu WYu
oject ID: TMCL	K DWPF 15W39	Planned Milestone	Detailed Wo	rks Prograr	nme (Rev. F	) - Three Mo	nths	<sup>香</sup> 寶子 港寶子 Dragag	es 🛛 🖓 🕌	ID-Jun-15	TMCLK/DBJGEN	/PRG/98507 Rev. F	WYu	
								Hong Ko						
ata Date: 27-Se	-10	Progress bar Progress Milestone		Rolling	Programme	;		ouygues Construction g Bouygues Joint Ver	oop	各聯營				

Activity ID	Activity Nome	Orier	Dianast	Diamand	Current Otart	Current								
Activity ID	Activity Name	Orig Dur	Planned Start	Planned Finish	Current Start	Current Finish				2015			20	)16
AP00905	Review & Comment by JV	12	20-Dec-16	05-Jan-17	08-Jul-15A	13-Jul-15A	Jun	Jul	Aug	Sep	Oct	Nov	Dec Ja	an
							-							1
AP00910	Designer prepare AIP	6	06-Jan-17	12-Jan-17	13-Jul-15A	16-Jul-15A	-					1		
AP00915	Formal Submission of AIP to ICE/IPs	0		12-Jan-17		16-Jul-15A								·
AP00920	Advanced Submission of AIP to SO	0		12-Jan-17		16-Jul-15A								
AP00925	Review & Comment by SO/ ICE/ IPs	28	13-Jan-17	09-Feb-17	16-Jul-15A	30-Sep-15	ł			1 1 1		1		
AP00930	Advance Commants from SO/ Comments from ICE/ IPs Received	0		09-Feb-17		30-Sep-15						1		
AP00935	Designer to Prepare RtC & Updated AIP	18	10-Feb-17	02-Mar-17	02-Oct-15	23-Oct-15						1		
AP00940	Submisson of AIP to SO/ ICE together with Reply To Comment (RTC)	0		02-Mar-17		23-Oct-15						1		
AP00945	Reply to IPs Comments in RTC	0		02-Mar-17		23-Oct-15			J     	L		ار ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ		
AP00950	ICEApproval & Issue of Design Check Cert.	18	03-Mar-17	23-Mar-17	24-Oct-15	13-Nov-15						1		
AP00955	Check Cert to SO	0		23-Mar-17		13-Nov-15						1		
AP00960	No Objection or Further Minor Comments from IPs Received	0		23-Mar-17		13-Nov-15	-					1		
AP00980	SO Review (35 Days)	35	03-Mar-17	06-Apr-17	24-Oct-15	27-Nov-15						1		
AP00985	SO Approval with Condition R eceived	0		06-Apr-17		27-Nov-15	+							
	Southern Landfall Seawall Modification											1		
DD01900	Preparation of DDAModification of Seawall at Sth Landfall	18	07-Apr-17	02-May-17	28-Nov-15	18-Dec-15						1		
DD01905	Review & Comment by JV	18	04-May-17	24-May-17	19-Dec-15	12-Jan-16	-							
(E2) DDA f	for Sewerage, Drainage, Waterworks & Utility works for Sou	th Londf										1		
DD05880	Designer to Reply RtC + Update Submission	21	02-Feb-15	04-Mar-15	19-Jun-15A	03-Oct-15	submission					ا ار ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ		
DD05890	Submit Updated DDA to SO/ ICE/ IPs	0	05-Mar-15		05-Oct-15		E/ IPs					1		
DD05900	ICEApproval & Issue Check Cert	12	05-Mar-15	18-Mar-15	05-Oct-15	17-Oct-15	k Cert					1		
DD05910	Submit ICE Check Cert to SO	6	19-Mar-15	25-Mar-15	19-Oct-15	26-Oct-15	tb SO					1		
DD05920		28					-					1		
	IPs Review		05-Mar-15	01-Apr-15	05-Oct-15	01-Nov-15								
DD05930	IP's No Objection Received	0		01-Apr-15		01-Nov-15	ceived					1		
DD05940	SO's Review	35	05-Mar-15	08-Apr-15	05-Oct-15	08-Nov-15	_							
DD05950	SO Approval with Condition R eceived	0		08-Apr-15		09-Nov-15	Condition R ed	eived			•			
	atement Submission													
	tatement of Ground Treatment for TBMs Passing under Sou Preparation Method Statement for Ground Improvement in South Landfall				12-Mar-16	22-Mar-16	· +		   Proparativ	h Mothod S	tatomont for Gr		ement in South Lar	
MS2710	Submit Method Statement to SO	0	20-001-10	29-Jul-15	12-10	22-Mar-16				ethod Star			sinent in Godin La	ulai
			00.1.1.45		00.14				Submit W					
MS2720	SO Reviews & Comments	28	30-Jul-15	26-Aug-15	23-Mar-16	19-Apr-16					ws & Comment	is ¦		
MS2730	Re-submission	6	27-Aug-15	02-Sep-15	20-Apr-16	26-Apr-16	_			Re-sut	mission	1		
MS2740	SO's Review	28	03-Sep-15	30-Sep-15	27-Apr-16	24-May-16					SO's Revie	ew		
MS2750	SO's Approval	0		30-Sep-15		24-May-16					SO's Appro	oval		
Construction														
DDP11435	Temporary Platform for Ground Treatment for TBM passing under Southern Seawall	48	06-Aug-15	02-Oct-15	29-Sep-15	25-Nov-15					Temporar	y Platform fo	or Ground Treatme	nt for
DDP11440	Grouting Treatment for TBM passing under Southern Seawall	339	03-Oct-15	25-Nov-16	26-Nov-15	20-Jan-17								
	ommissioning/Inspection & Handover													
	tion & Handover													
Design Sub	omission Itenance Matrix											1		
GS02000	Preparation of Maintenance Matrix	35	24-Dec-15	05-Feb-16	24-Dec-15	05-Feb-16						1		
(A13) Oper	ration & Maintenance Manual											1		
GS02100	Preparation of Operation and Maintenance Manual	48	24-Dec-15	27-Feb-16	24-Dec-15	27-Feb-16	- <del> </del>				+			
(A14) As-b	uilt & As-fabricated Drawings		<u> </u>	<u> </u>								1		
GS02200	Preparation of As-built and As-fabricated Drawings	48	24-Dec-15	27-Feb-16	24-Dec-15	27-Feb-16								
(A15) Heal	th & Safety File incl.As-built Dwgs & Records,Maintenance	Schedul	es,O&M Manu	al										
GS02310	Preparation of Health and Safety File including as-built drawings and records, maintenance schedules, operation and mai	48	24-Dec-15	27-Feb-16	24-Dec-15	27-Feb-16	1					1		
			1	1	1		L'				<u>,                                     </u>	1	l	

Page 12 of 12	Planned Bar	TMCLK - Northern Connection Sub-Sea Tunnel Section		Date 12-Feb-14	Revision TMCLK/DBJGEN/PRG/98507	Checked WYu	Approved SPo
Project ID: TMCLK_DWPF 15W39	Planned Bar - Critical   Planned Milestone	Detailed Works Programme (Rev. F) - Three Months		08-Apr-14 28-Aug-14 10-Jun-15	TMCLK/DBJGEN/PRG/98507 Rev.B TMCLK/DBJGEN/PRG/98507 Rev.C TMCLK/DBJGEN/PRG/98507 Rev.F	CLa	WYu WYu
Data Date: 27-Sep-15	Progress bar     Progress Milestone	Rolling Programme	Dragages A method the Bourgess Construction group Dragages - Bourgues Loss Ventors 實嘉 - 布依格聯營				
		Progress as of 27-Sep-15					

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		1
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.		Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	Open dropping heights for excavated materials shall be controlled to a maximum height of 2m to minimise the fugitive dust arising from unloading.		Contractor	TMEIA Avoid dust generation		Y		~
4.8.1	3.8	During transportation by truck, materials shall not be loaded to a level higher than the side and tail boards, and shall be dampened or covered before transport.		Contractor	TMEIA Avoid dust generation		Y		~

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

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	plementa Stages	tion	Status *
	Reference					D	С	0	
4.8.1	3.8	Materials having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. The tarpaulin shall be properly secured and shall extend at least 300mm over the edges of the side and tail boards.		Contractor	TMEIA Avoid dust generation		Y		~
4.8.1	3.8	No earth, mud, debris, dust and the like shall be deposited on public roads. Wheel washing facility shall be usable prior to any earthworks excavation activity on the site.		Contractor	TMEIA Avoid dust		Y		~
4.8.1	3.8	Areas of exposed soil shall be minimised to areas in which works have been completed shall be restored as soon as is practicable.	All exposed surfaces / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		~
4.8.1	3.8	All stockpiles of aggregate or spoil shall be enclosed or covered and water applied in dry or windy condition.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		<>
4.11	Section 3	EM&A in the form of 1 hour and 24 hour dust monitoring and site audit.	All representative existing ASRs / throughout construction period	Contractor	EM&A Manual		Y		~
WATER QUAI Marine Works (See									
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		1
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		~

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EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Reference					D	С	0	
6.1	-	a maximum of 30% public fill to be used for reclamation filling below +2.5mPD for TM-CLKL southern landfall	TM-CLKL southern landfall reclamation filling	Contractor	TM-EIAO		Y		N/A
6.1	-	a maximum of 100% public fill to be used for reclamation filling below +2.5mPD for TM-CLKL northern landfall	TM-CLKL northern landfall reclamation filling	Contractor	TM-EIAO		Y		•
6.1	-	Use of cage type silt curtains round allgrab dredgers during the HKBCF, HKLR and TM-CLKL southern reclamation works.	All areas dredging works	Contractor	TM-EIAO		Y		1
	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		4

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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Kererence					D	С	0	
6.1	Annex A	For other parts of the reclamation works construction of seawalls to be advanced by at least 200m before the main reclamation dredging and filling can commence. It should be noted that the protection by advanced seawall is a dynamic process depending on the progress of the construction activities and the stage when such protection could be realised is illustrated in Figure 6.2b and detailed in Appendices D6b. The part of the works where such measures can be undertaken for the majority of the time includes the following locations:	Portion D of HKBCF and HKLR	Contractor	TM-EIAO		Y		~
Figure 6.2b Appendix D6b		<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>							
		<ul> <li>Reclamation dredging and filling for Portion 1 of HKLR;</li> </ul>							
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		1
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;	All areas/ through out marine works	Contractor	TM-EIAO		Y		*

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EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	olementa Stages	tion	Status *
	Reference					D	С	0	
General Marine W	orks								
6.1	-	Use of TBM for the construction of the submarine tunnel.	Tunnel works / Construction phase	Contractor	TM-EIAO		Y		N/A
6.1	-	Export dredged spoils from NWWCZ.	All areas as much as possible / dredging activities	Contractor	DASO Permit conditions		Y		•
6.1	-	Where public fill is proposed for filling below +2.5mPD, the fine content in the public fill will be controlled to 25%	All areas/ backfilling works	Contractor	TM-EIAO		Y		N/A
6.1	-	Where sand fill is proposed for filling below +2.5mPD, the fine content in the sand fill will be controlled to 5%.	All areas/ backfilling works	Contractor	TM-EIAO		Y		N/A
6.1	-	Mechanical grabs shall be designed and maintained to avoid spillage and should seal tightly while being lifted.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit		Y		~
6.1	-	Barges and hopper dredgers shall have tight fitting seals to their	All areas/ throughout	Contractor	conditions. Marine Fill		Y		~
0.1		bottom openings to prevent leakage of material.	construction period	Condition	Committee Guidelines. DASO permit conditions.		1		
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 on hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation.		Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		¥

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

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lementa Stages	tion	Status *
	Reference					D	C	0	
Land Works									
6.1	-	Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		~
6.1	-	Sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided.	construction period	Contractor	TM-EIAO		Y		~
6.1	-	Storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.		Contractor	TM-EIAO		Y		\$
6.1	-	Silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm.		Contractor	TM-EIAO		Y		<>
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		$\diamond$
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		1

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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	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		~
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		1
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		4
6.1	-	Wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		~
6.1	-	Vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal.	construction period	Contractor	TM-EIAO		Y		N/A
6.1	-	The Contractor shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately.		Contractor	TM-EIAO		Y		~
6.1	-	Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance.	All areas/ throughout construction period	Contractor	TM-EIAO Waste Disposal Ordinance		Y		✓

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

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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	
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	1
6.1	Section 5	All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good working practice.	All areas/ throughout construction period	Contractor	EM&A Manual		Y		<b>^</b>
Water Quality Mor	iitoring								
6.1	Section 5	Water quality monitoring shall be undertaken for suspended solids, turbidity, and dissolved oxygen. Nutrients and metal parameters shall also be measured for Mf sediment operations (only HKBCF and HKLR required handling of Mf sediment) during baseline, backfilling and post construction period. One year operation phase water quality monitoring at designated stations.	as defined in EM&A Manual, Section 5/ Before, through-out marine construction period, post construction and monthly operational phase water quality	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.	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		~

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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	
8.14	6.3, 6.5	Design and implementation of acoustic decoupling methods for dredging and reclamation works	All areas/ Detailed Design/during dredging and reclamation works	Design Consultant/ Contractor	TMEIA	Y	Y		-
8.15	6.3, 6.4	Pre-construction phase survey and coral translocation	Detailed Design/Prior to construction	Design Consultant/ Contractor	TMEIA	Y	Y		1
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 A	AND VISUAI			•					
10.9	7.6	The colour and shape of the toll control buildings, ventilation building and administration building shall adopt a design which could blend it into the vicinity elements, and the details will be developed in detailed design stage (DM2)	All areas/detailed design	Design Consultant	TMEIA	Y			N/A
10.9	7.6	Aesthetic design of the viaduct, retaining wall and other structures will be developed under ACABAS submission (DM5)	All areas/detailed design	Design Consultant	TMEIA	Y			N/A
10.9	7.6	Screening of construction works by hoardings around works area in visually unobtrusive colours, to screen works (CM5)	All areas/detailed design/ during construction/post construction	Design Consultant/ Contractor	TMEIA	Y	Y		~
10.9	7.6	Control night-time lighting and glare by hooding all lights (CM6)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A

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EIA Reference	EM&A Manual		Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
	Reference					D	C	0	
10.9	7.6	Ensure no run-off into water body adjacent to the Project Area (CM7)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		~
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (CM8)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		~
10.9	7.6	Aesthetically pleasing design (visually unobtrusive and non- reflective) as regard to the form, material and finishes shall be incorporated to all buildings, engineering structures and associated infrastructure facilities (OM5)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	N/A
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (OM6)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	N/A
WASTE									
12.6		The Contractor shall identify a coordinator for the management of waste.	Contract mobilisation	Contractor	TMEIA		Y		~
12.6		The Contractor shall prepare and implement a Waste 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		~

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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	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		1
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			1
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.	All areas / throughout construction period	Contractor	TMEIA		Y		1

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EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Reference					D	С	0	
12.6	8.1	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 All areas / throughout site to prevent transfer of mud onto public roads.		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		~
12.6	8.1	The Contractor should recycle as many C&D materials (this is a waste section) as possible on-site. The public fill and C&D waste should be segregated and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper disposal. Where practicable, the concrete and masonry should be crushed and used as fill materials. Steel reinforcement bar should be collected for use by scrap steel mills. Different areas of the sites should be considered for segregation and storage activities.	construction period	Contractor	TMEIA		Y		~
12.6	8.1	All falsework will be steel instead of wood.	All areas / throughout construction period	Contractor	TMEIA		Y		~

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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
	Kererence					D	С	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:		Contractor	TMEIA		Y		\$
		f suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed; f Having a capacity of <450L unless the specifications have been approved by the EPD; and f Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations. f Clearly labelled and used solely for the storage of chemical wastes; f Enclosed with at least 3 sides; f 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; f Adequate ventilation; f Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and f Incompatible materials are adequately							
12.6	8.1	separated. 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.	All areas / throughout	Contractor	TMEIA		Y		1
12.6	8.1	Night soil should be regularly collected by licensed collectors.	All areas / throughout construction period	Contractor	TMEIA		Y		N/A

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

\* Remarks:

✓ Compliance of Mitigation Measures

<> Compliance of Mitigation but need improvement

x Non-compliance of Mitigation Measures

▲ Non-compliance of Mitigation Measures but rectified by Contractor

Δ Deficiency of Mitigation Measures but rectified by Contractor

N/A Not Applicable in Reporting Period

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

Appendix D

Summary of Action and Limit Levels

Parameters	Action	Limit
24 Hour TSP Level in µg/m <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	[STG < 40% of baseline & ANI < 40% of baseline]			
		and			
	STG < 40% of baseli	ne & ANI < 40% of baseline			
Notes:					
1. STG means quarterly encounter rate of number of dolphin sightings, which is <b>6.00 in NEL</b> and <b>9.85 in NWL</b> 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 Lanta	u Social Cluster		
NEL NV			
STG < 4.2 & ANI< 15.5	STG < 6.9 & ANI < 31.3		
NEL = [STG <	< 2.4 & ANI <8.9]		
á	and		
NWL = [STG < 3.9 & ANI <17.9]			
	NEL STG < 4.2 & ANI< 15.5 NEL = [STG <		

Appendix E

Copies of Calibration Certificates for Air Quality Monitoring

Location Calibrated by Date	:	ASR 5 P.F.Yeung 10/08/2015
Sampler		
Model	:	TE-5170
Serial Number	:	S/N 0816
Calibration Orfice and Standard Serial Number Service Date Slope (m) Intercept (b) Correlation Coefficient(r)	<u>d Calibrati</u> : : : :	on Relationship 2454 24 Mar 2015 2.09532 -0.03812 0.99994
<u>Standard Condition</u> Pstd (hpa) Tstd (K)	:	1013 298.18
Calibration Condition Pa (hpa) Ta(K)	:	1004 302

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.2	3.454	1.667	55	54.39
2	13 holes	9.5	3.048	1.473	49	48.46
3	10 holes	7.2	2.654	1.285	42	41.54
4	7 holes	4.6	2.121	1.030	35	34.61
5	5 holes	2.7	1.625	0.794	27	26.70

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>31.581</u> Intercept(b):<u>1.674</u>

Correlation Coefficient(r): 0.9992

Checked by: Magnum Fan

Location	:	ASR10A
Calibrated by	:	P.F.Yeung
Date	:	10/08/2015
~ .		
<u>Sampler</u>		
Model	:	TE-5170
Serial Number	:	S/N 8162
Calibration Orfice and Stand	lard Calibratio	n Relationship
Serial Number	:	2454
Service Date	:	24 Mar 2015
Slope (m)	:	2.09532
Intercept (b)	:	-0.03812
Correlation Coefficient(r)	:	0.99994
Standard Condition		
Pstd (hpa)		1013
	•	298.18
Tstd (K)	•	290.10
Calibration Condition		
Pa (hpa)	:	1004
Ta(K)		302
1 (11)	•	502

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.8	3.397	1.639	56	55.38
2	13 holes	9.7	3.080	1.488	51	50.44
3	10 holes	7.0	2.616	1.267	45	44.50
4	7 holes	4.8	2.167	1.052	38	37.58
5	5 holes	2.8	1.655	0.808	30	29.67

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):<u>30.643</u> Intercept(b):<u>5.181</u> Correlation Coefficient(r): <u>0.9994</u>

Checked by: Magnum Fan

Location Calibrated by Date	:	AQMS1 P.F.Yeung 10/08/2015
<u>Sampler</u>		
Model	:	TE-5170
Serial Number	:	S/N 1253
Calibration Orfice and Standar	d Calibratio	on Relationship
Serial Number	:	2454
Service Date	:	24 Mar 2015
Slope (m)	:	2.09532
Intercept (b)	:	-0.03812
Correlation Coefficient(r)	:	0.99994
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	•	1004
Ta(K)	•	302
1 ((1))	•	502

						]
Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.8	3.397	1.639	55	54.39
2	13 holes	9.4	3.032	1.465	50	49.45
3	10 holes	7.0	2.616	1.267	43	42.52
4	7 holes	4.6	2.121	1.030	34	33.62
5	5 holes	2.6	1.595	0.779	26	25.71

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):34.003 Intercept(b):-0.896

Correlation Coefficient(r): 0.9992

Checked by: Magnum Fan

Location Calibrated by Date	:	ASR1 P.F.Yeung 10/08/2015
Sampler		
Model	:	TE-5170
Serial Number	:	S/N 0146
Calibration Orfice and Standar	d Calibratio	on Relationship
Serial Number	:	2454
Service Date	:	24 Mar 2015
Slope (m)	:	2.09532
Intercept (b)	:	-0.03812
Correlation Coefficient(r)	:	0.99994
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1004
Ta(K)		302
	•	202

Resi	istance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.6	3.368	1.626	52	51.42
2	13 holes	9.4	3.032	1.465	47	46.48
3	10 holes	6.8	2.5793	1.249	40	39.56
4	7 holes	4.4	2.074	1.008	32	31.65
5	5 holes	2.6	1.595	0.779	24	23.73

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>32.697</u> Intercept(b):-<u>1.499</u>

Correlation Coefficient(r): 0.9990

Checked by: Magnum Fan

Location Calibrated by Date	:	ASR 6 P.F.Yeung 10/08/2015
Sampler		
Model	:	TE-5170
Serial Number	:	S/N 3957
Calibration Orfice and Standard	d Calibratio	on Relationship
Serial Number	:	2454
Service Date	:	24 Mar 2015
Slope (m)	:	2.09532
Intercept (b)	:	-0.03812
Correlation Coefficient(r)	:	0.99994
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1004
Ta(K)	•	302
	-	

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.0	3.426	1.653	54	53.40
2	13 holes	9.5	3.048	1.473	48	47.47
3	10 holes	6.8	2.579	1.249	41	40.55
4	7 holes	4.5	2.098	1.019	34	33.62
5	5 holes	2.7	1.625	0.794	26	25.71

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>31.865</u>

Intercept(b): 0.714

Correlation Coefficient(r): 0.9997

Checked by: Magnum Fan



輝創工程有限公司

Sun Creation Engineering Limited

**Calibration and Testing Laboratory** 

# Certificate of Calibration 校正證書

Certificate No. : C153422 證書編號

Manufacturer / 集 Model No. / 型號 Serial No. / 編號 Supplied By / 委	ž : :	<ul> <li>( Job No. / 序引編號: IC1: Anemometer Lutron AM-4201 AF.27513 Envirotech Services Co. Shop 6, G/F., Casio Mansion Hong Kong</li> </ul>		of Receipt / I,	
TEST CONDIT	IONS / 測詞	試條件			
Temperature / 溫 Line Voltage / 電		23 ± 2)°C -	Relative Hu	umidity / 相	對濕度 : (55±20)%
TEST SPECIFI Calibration check		/ 測試規範			
DATE OF TES					
	to the part	衆 icular unit-under-test only. ne subsequent page(s).			
The results apply The results are do The test equipme	to the part etailed in th ent used for	icular unit-under-test only.	ational Standards via :		
The results apply The results are do The test equipme	to the part etailed in th ent used for	icular unit-under-test only. he subsequent page(s). calibration are traceable to Na	ational Standards via :		
The results apply The results are do The test equipme	to the part etailed in th ent used for	icular unit-under-test only. he subsequent page(s). calibration are traceable to Na	ational Standards via :		
The results apply The results are do The test equipme	to the part etailed in th ent used for	icular unit-under-test only. he subsequent page(s). calibration are traceable to Na	ational Standards via :		

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



輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration 校正證書

Certificate No. : C153422 證書編號

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

3. Test equipment :

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

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

Air Velocity

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

Remarks : - The Measured Corrections are defined as :

Value = Applied Value - UUT Reading

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

#### Note :

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

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

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

### **ENVIROTECH SERVICES CO.**

Date of Calibration :	29 June 2015
Brand of Test Meter:	Davis
Model:	Weather Wizard III (s/n: WE90911A30)
Location :	ASR5
Procedures :	
1. Wind Still Test:	The wind speed sensor was hold by hand until it keep still
2. Wind Speed Test:	The wind meter was on-site calibrated against the Anemometer
3. Wind Direction Test :	The wind meter was on-site calibrated against the marine compass at four directions
Results:	

**Calibration Report of Wind Meter** 

#### Wind Still Test

Wind Speed (m/s)	
0.00	

Wind Speed Test

Davis (m/s)	Anemomete (m/s)
1.9	1.8
2.4	2.2
2.9	3.1

Wind Direction Test

Davis (o)	Marine Compass (o)
269	270
. 1	0
88	90
181	180

Calibrated by:

Checked by :

Yeung Ping Fai (Technical Officer)

Ho Kam Fat (Senior Technical Officer)



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

## ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

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

#### DATA TABULATION

Vstd	(x axis) Qstd	(y axis)			Va	(x axis) Qa	(y axis)
1.0121 1.0078 1.0057 1.0047 0.9994	0.6999 0.9785 1.0955 1.1443 1.3805	1.4258 2.0163 2.2543 2.3644 2.8515			0.9958 0.9916 0.9895 0.9885 0.9833	0.6886 0.9627 1.0779 1.1258 1.3582	0.8784 1.2422 1.3888 1.4566 1.7568
Qstd sloj intercep coeffici	t (b) =	2.09532 -0.03812 0.99994			Qa slop intercep coeffici	t (b) =	1.31205 -0.02349 0.99994
y axis =	SQRT [H20 (I	Pa/760) (298/	 Ta)]		y axis =	SQRT [H20 ('	Ta/Pa)]

#### CALCULATIONS

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

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

For subsequent flow rate calculations:

Qstd =  $1/m\{ [SQRT(H2O(Pa/760)(298/Ta))] - b \}$ Qa =  $1/m\{ [SQRT H2O(Ta/Pa)] - b \}$  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 - September 2015

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Sep		public holiday 3-Sep	4-Sep	5-Sep
			1-hour TSP - 3 times			1-hour TSP - 3 times
			24-hour TSP - 1 time			24-hour TSP - 1 time
			Import AOM			Import AOM
6-Sep	7-Sep		Impact AQM 9-Sep	10-Sep		Impact AQM 12-Sep
0-Зер	7-3ep	1-hour TSP - 3 times	9-3ep	10-3ep	1-hour TSP - 3 times	12-3ep
		24-hour TSP - 1 time			24-hour TSP - 1 time	
		Impact AQM			Impact AQM	
13-Sep			16-Sep			19-Sep
i	1-hour TSP - 3 times			1-hour TSP - 3 times		
	24-hour TSP - 1 time			24-hour TSP - 1 time		
	Impact AQM			Impact AQM		
20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep
1-hour TSP - 3 times			1-hour TSP - 3 times			1-hour TSP - 3 times
24-hour TSP - 1 time			24-hour TSP - 1 time			24-hour TSP - 1 time
Impact AQM			Impact AQM			Impact AQM
	public holiday 28-Sep		30-Sep			
27-360		1-hour TSP - 3 times	<u> </u>			
		24-hour TSP - 1 time				
		Impact AQM				

### HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Tentative Air Quality Impact Monitoring Schedule - October 2015

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Sunday	Monday	Tuesday	Wednesday	public holiday 01-Oct		03-Oct
					1-hour TSP - 3 times	
					24-hour TSP - 1 time	
					Impact AQM	
04-Oct		06-Oct	07-Oct		09-Oct	10-Oc
	1-hour TSP - 3 times			1-hour TSP - 3 times		
	24-hour TSP - 1 time			24-hour TSP - 1 time		
	Impact AQM			Impact AQM		
11-Oct	12-Oct	13-Oct		15-Oct	16-Oct	
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
18-Oct	19-Oct		public holiday 21-Oct	22-Oct		24-00
		1-hour TSP - 3 times			1-hour TSP - 3 times	
		24-hour TSP - 1 time			24-hour TSP - 1 time	
		Impact AQM			Impact AQM	
25-Oct		27-Oct	28-Oct		30-Oct	31-Oct
	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 - September 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Sep		public holiday 3-Sep	4-Sep	5-Sep
			Impact Dolphin Monitoring			
6-Sep	7-Sep	8-Sep	9-Sep			12-Sep
					Impact Dolphin Monitoring	
13-Sep	14-Sep	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep
				Impact Dolphin Monitoring		
20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep
27-Sep	public holiday 28-Sep		30-Sep			
		Impact Dolphin Monitoring				

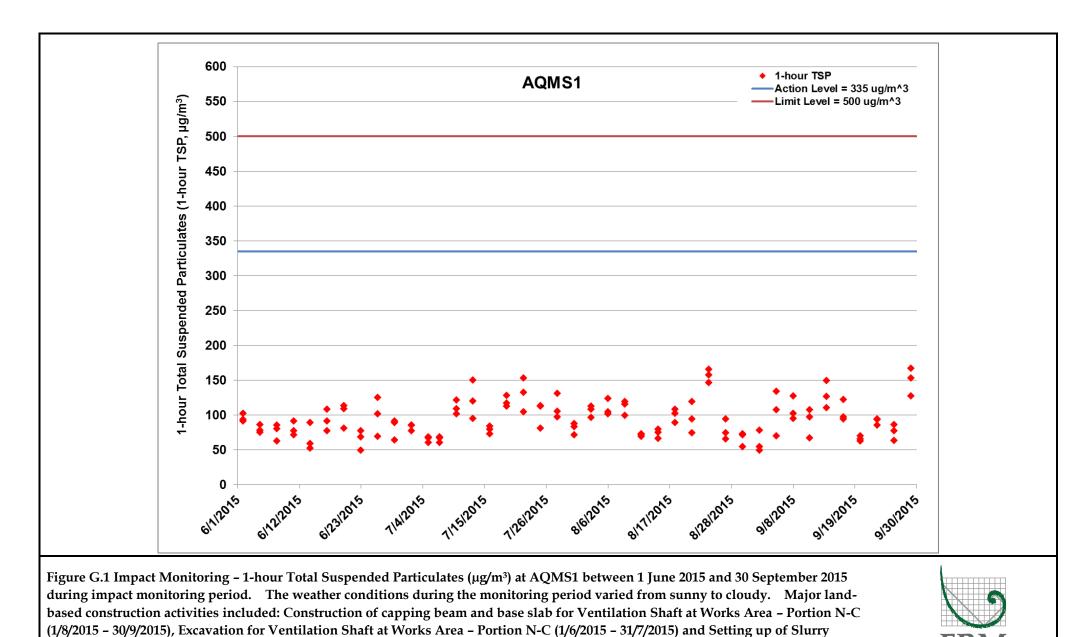
### HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Tentative Impact Dolphin Monitoring Survey Monitoring Schedule - October 2015

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

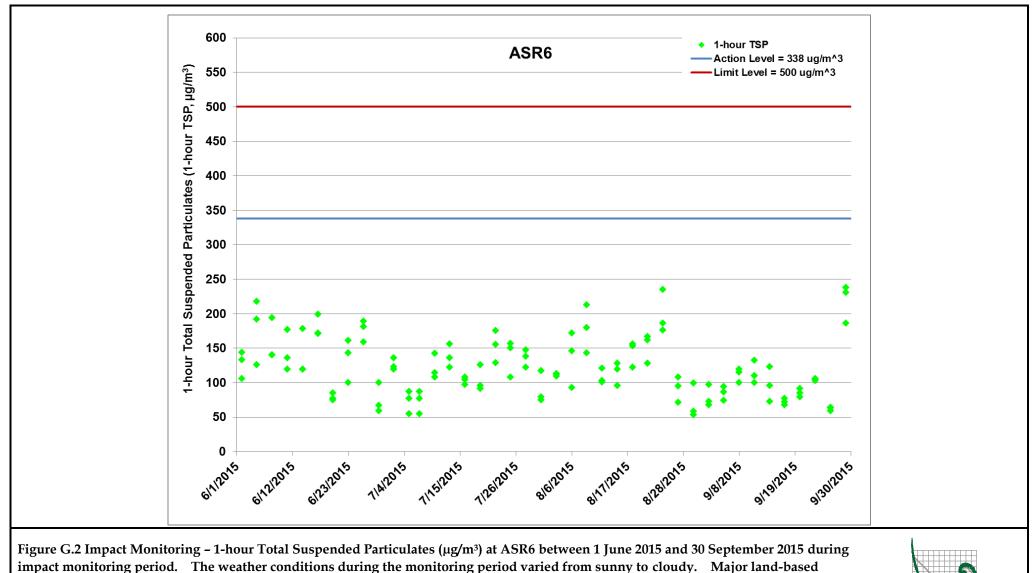
The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

Appendix G

Impact Air Quality Monitoring Results

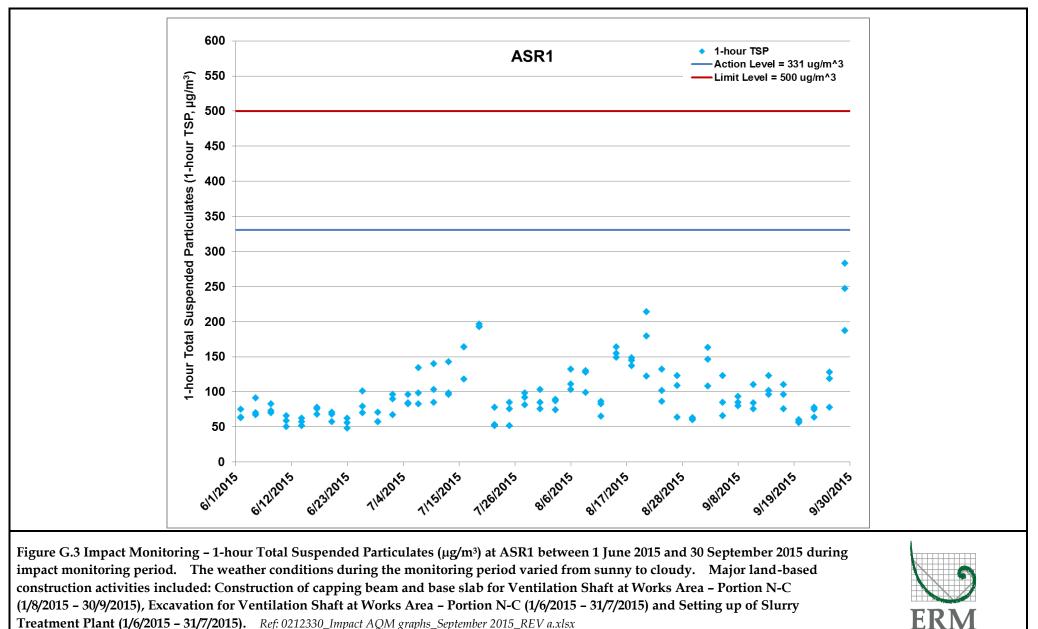


**Treatment Plant (1/6/2015 – 31/7/2015).** *Ref:* 0212330\_Impact AQM graphs\_September 2015\_REV a.xlsx

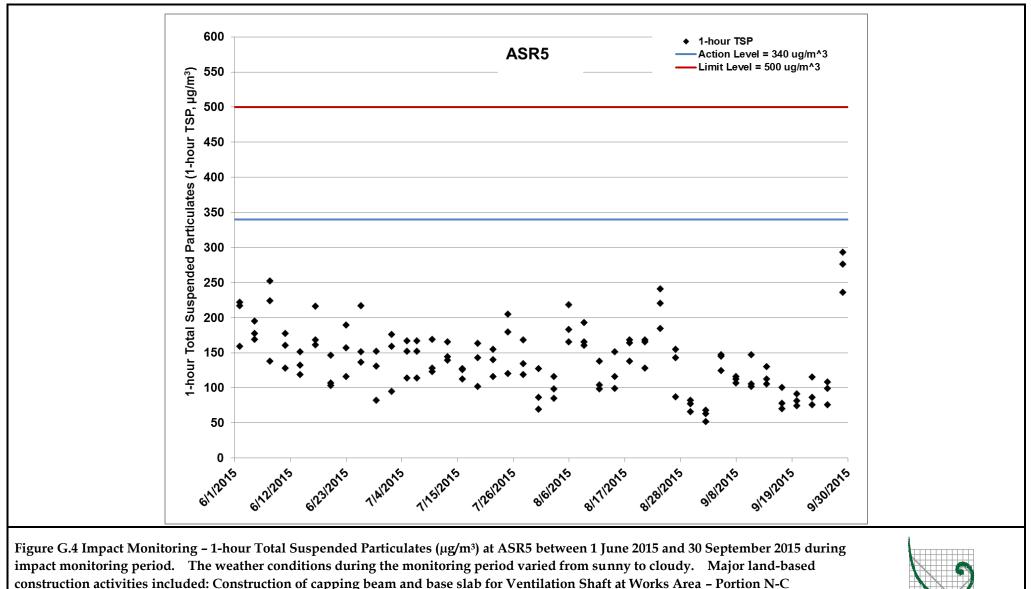


construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/8/2015 – 30/9/2015), Excavation for Ventilation Shaft at Works Area – Portion N-C (1/6/2015 – 31/7/2015) and Setting up of Slurry Treatment Plant (1/6/2015 – 31/7/2015). Ref: 0212330\_Impact AQM graphs\_September 2015\_REV a.xlsx





Treatment Plant (1/6/2015 - 31/7/2015). Ref: 0212330\_Impact AQM graphs\_September 2015\_REV a.xlsx



construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area - Portion N-C (1/8/2015 - 30/9/2015), Excavation for Ventilation Shaft at Works Area - Portion N-C (1/6/2015 - 31/7/2015) and Setting up of Slurry Treatment Plant (1/6/2015 - 31/7/2015). Ref: 0212330\_Impact AQM graphs\_September 2015\_REV a.xlsx



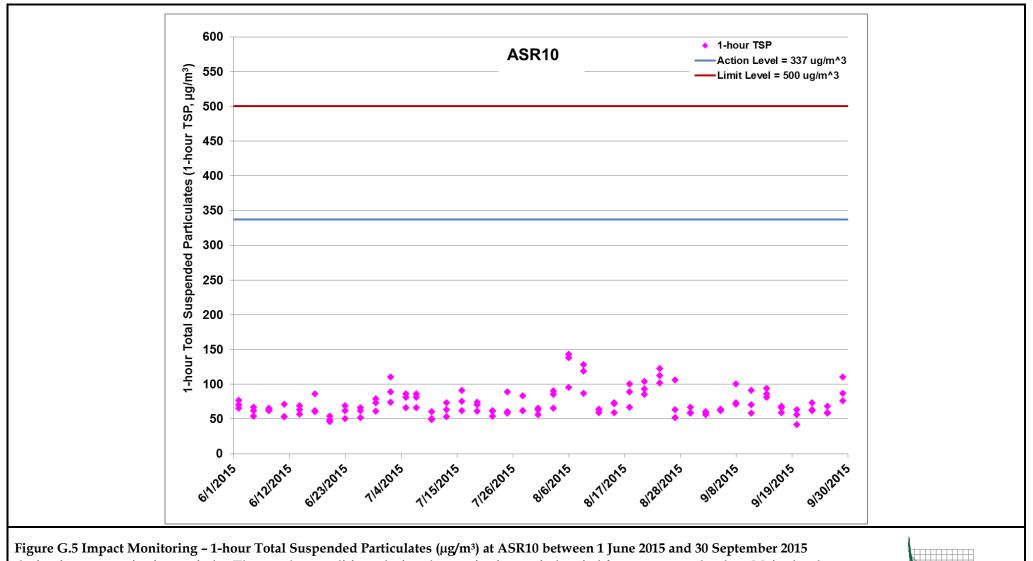


Figure G.5 Impact Monitoring – 1-hour Total Suspended Particulates (μg/m<sup>3</sup>) at ASR10 between 1 June 2015 and 30 September 2015 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/8/2015 – 30/9/2015), Excavation for Ventilation Shaft at Works Area – Portion N-C (1/8/2015 – 31/7/2015), Excavation for Ventilation Shaft at Works Area – Portion N-C (1/6/2015 – 31/7/2015). Ref: 0212330\_Impact AQM graphs\_September 2015\_REV a.xlsx



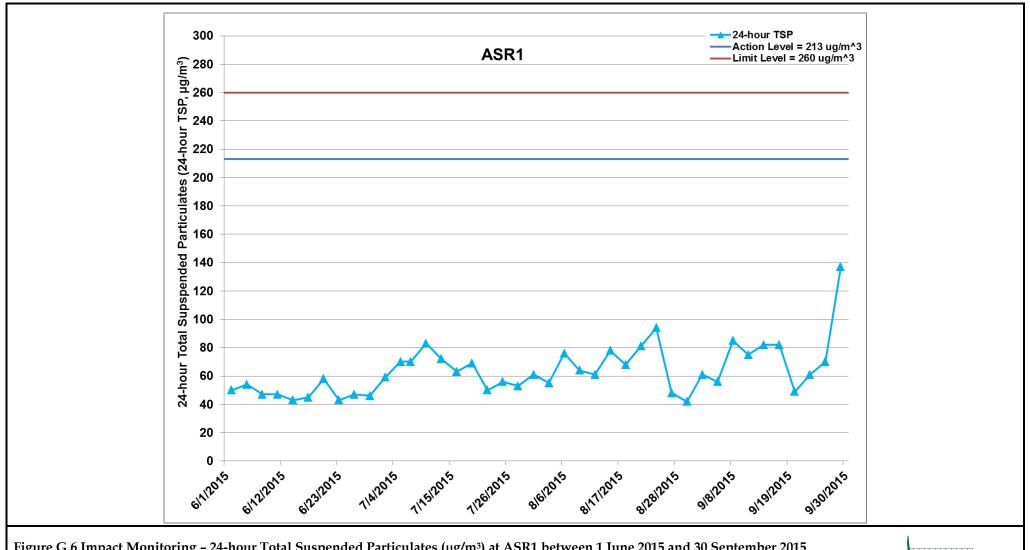


Figure G.6 Impact Monitoring – 24-hour Total Suspended Particulates ( $\mu$ g/m<sup>3</sup>) at ASR1 between 1 June 2015 and 30 September 2015 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/8/2015 – 30/9/2015), Excavation for Ventilation Shaft at Works Area – Portion N-C (1/8/2015 – 31/7/2015), Excavation for Ventilation Shaft at Works Area – Portion N-C (1/6/2015 – 31/7/2015). Ref: 0212330\_Impact AQM graphs\_September 2015\_REV a.xlsx



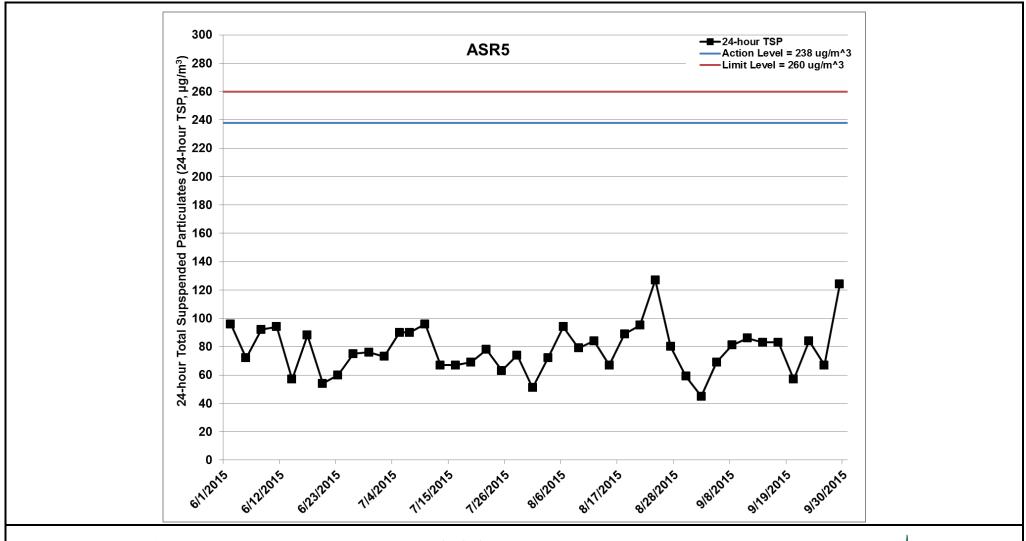


Figure G.7 Impact Monitoring – 24-hour Total Suspended Particulates (µg/m<sup>3</sup>) at ASR5 between 1 June 2015 and 30 September 2015 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/8/2015 – 30/9/2015), Excavation for Ventilation Shaft at Works Area – Portion N-C (1/6/2015 – 31/7/2015), Excavation for Ventilation Shaft at Works Area – Portion N-C (1/6/2015 – 31/7/2015). *Ref:* 0212330\_Impact AQM graphs\_September 2015\_REV a.xlsx



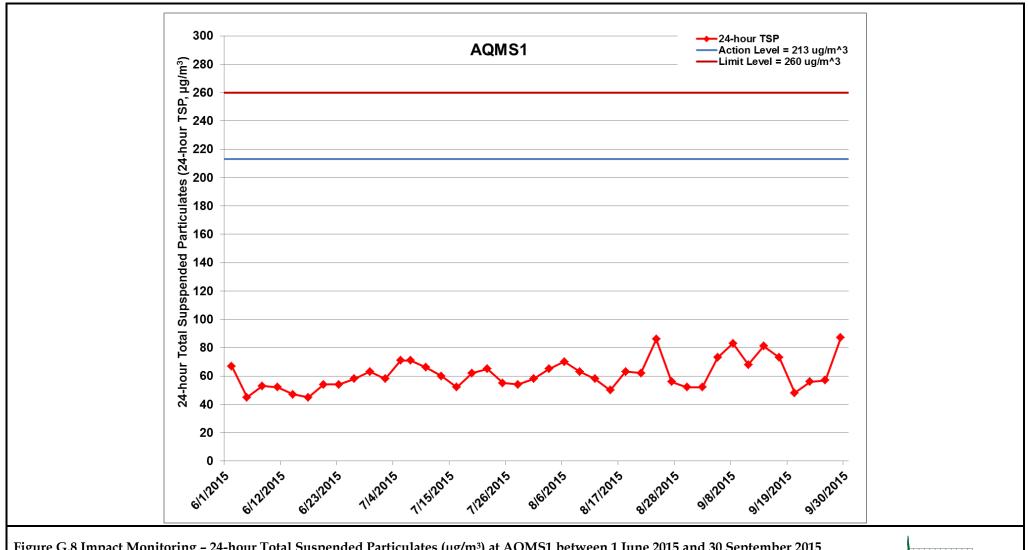
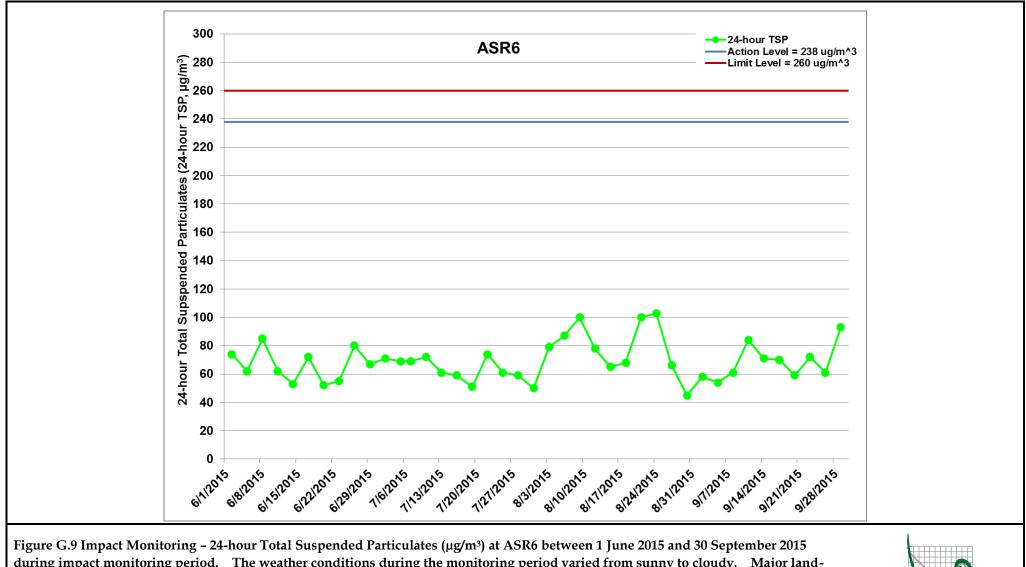


Figure G.8 Impact Monitoring – 24-hour Total Suspended Particulates (µg/m<sup>3</sup>) at AQMS1 between 1 June 2015 and 30 September 2015 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/8/2015 – 30/9/2015), Excavation for Ventilation Shaft at Works Area – Portion N-C (1/6/2015 – 31/7/2015), Excavation for Ventilation Shaft at Works Area – Portion N-C (1/6/2015 – 31/7/2015). *Ref:* 0212330\_Impact AQM graphs\_September 2015\_REV a.xlsx





during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major landbased construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/8/2015 – 30/9/2015), Excavation for Ventilation Shaft at Works Area – Portion N-C (1/6/2015 – 31/7/2015), Excavation for Ventilation Shaft at Works Area – Portion N-C (1/6/2015 – 31/7/2015) and Setting up of Slurry Treatment Plant (1/6/2015 – 31/7/2015). *Ref:* 0212330\_Impact AQM graphs\_September 2015\_REV a.xlsx



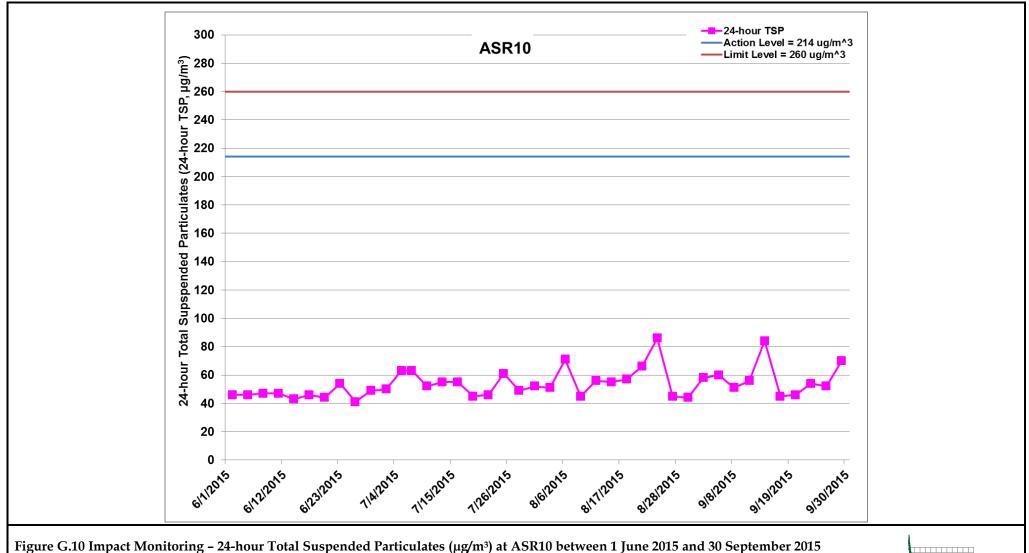


Figure G.10 Impact Monitoring – 24-hour Total Suspended Particulates (μg/m<sup>3</sup>) at ASR10 between 1 June 2015 and 30 September 2015 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/8/2015 – 30/9/2015), Excavation for Ventilation Shaft at Works Area – Portion N-C (1/8/2015 – 31/7/2015), Excavation for Ventilation Shaft at Works Area – Portion N-C (1/6/2015 – 31/7/2015). *Ref:* 0212330\_Impact AQM graphs\_September 2015\_REV a.xlsx



Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2015-09-02	ASR10	Cloudy	14:06	1-hour TSP	59	ug/m3
TMCLKL	HY/2012/08	2015-09-02	ASR10	Cloudy	15:08	1-hour TSP	60	ug/m3
TMCLKL	HY/2012/08	2015-09-02	ASR10	Cloudy	16:10	1-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2015-09-02	ASR6	Cloudy	14:17	1-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2015-09-02	ASR6	Cloudy	15:19	1-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2015-09-02	ASR6	Cloudy	16:21	1-hour TSP	97	ug/m3
TMCLKL	HY/2012/08	2015-09-02	ASR5	Cloudy	14:27	1-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2015-09-02	ASR5	Cloudy	15:29	1-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2015-09-02	ASR5	Cloudy	16:31	1-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2015-09-02	ASR1	Cloudy	14:38	1-hour TSP	146	ug/m3
TMCLKL	HY/2012/08	2015-09-02	ASR1	Cloudy	15:40	1-hour TSP	108	ug/m3
TMCLKL	HY/2012/08	2015-09-02	ASR1	Cloudy	16:42	1-hour TSP	163	ug/m3
TMCLKL	HY/2012/08	2015-09-02	AQMS1	Cloudy	14:50	1-hour TSP	49	ug/m3
TMCLKL	HY/2012/08	2015-09-02	AQMS1	Cloudy	15:52	1-hour TSP	54	ug/m3
TMCLKL	HY/2012/08	2015-09-02	AQMS1	Cloudy	16:54	1-hour TSP	78	ug/m3
TMCLKL	HY/2012/08	2015-09-05	AQMS1	Sunny	14:50	1-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2015-09-05	AQMS1	Sunny	15:52	1-hour TSP	107	ug/m3
TMCLKL	HY/2012/08	2015-09-05	AQMS1	Sunny	16:54	1-hour TSP	134	ug/m3
TMCLKL	HY/2012/08	2015-09-05	ASR1	Sunny	14:38	1-hour TSP	123	ug/m3
TMCLKL	HY/2012/08	2015-09-05	ASR1	Sunny	15:40	1-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	2015-09-05	ASR1	Sunny	16:42	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2015-09-05	ASR5	Sunny	14:27	1-hour TSP	124	ug/m3
TMCLKL	HY/2012/08	2015-09-05	ASR5	Sunny	15:29	1-hour TSP	145	ug/m3
TMCLKL	HY/2012/08	2015-09-05	ASR5	Sunny	16:31	1-hour TSP	147	ug/m3
TMCLKL	HY/2012/08	2015-09-05	ASR6	Sunny	14:15	1-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	2015-09-05	ASR6	Sunny	15:17	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2015-09-05	ASR6	Sunny	16:19	1-hour TSP	74	ug/m3
TMCLKL	HY/2012/08	2015-09-05	ASR10	Sunny	14:04	1-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2015-09-05	ASR10	Sunny	15:06	1-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2015-09-05	ASR10	Sunny	16:08	1-hour TSP	64	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2015-09-08	ASR10	Sunny	13:40	1-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2015-09-08	ASR10	Sunny	14:42	1-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2015-09-08	ASR10	Sunny	15:44	1-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2015-09-08	ASR6	Sunny	13:51	1-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2015-09-08	ASR6	Sunny	14:53	1-hour TSP	119	ug/m3
TMCLKL	HY/2012/08	2015-09-08	ASR6	Sunny	15:55	1-hour TSP	115	ug/m3
TMCLKL	HY/2012/08	2015-09-08	ASR5	Sunny	14:03	1-hour TSP	107	ug/m3
TMCLKL	HY/2012/08	2015-09-08	ASR5	Sunny	15:05	1-hour TSP	112	ug/m3
TMCLKL	HY/2012/08	2015-09-08	ASR5	Sunny	16:07	1-hour TSP	116	ug/m3
TMCLKL	HY/2012/08	2015-09-08	ASR1	Sunny	14:15	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2015-09-08	ASR1	Sunny	15:17	1-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2015-09-08	ASR1	Sunny	16:19	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2015-09-08	AQMS1	Sunny	14:27	1-hour TSP	95	ug/m3
TMCLKL	HY/2012/08	2015-09-08	AQMS1	Sunny	15:29	1-hour TSP	102	ug/m3
TMCLKL	HY/2012/08	2015-09-08	AQMS1	Sunny	16:31	1-hour TSP	127	ug/m3
TMCLKL	HY/2012/08	2015-09-11	ASR10	Sunny	13:22	1-hour TSP	91	ug/m3
TMCLKL	HY/2012/08	2015-09-11	ASR10	Sunny	14:24	1-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2015-09-11	ASR10	Sunny	15:26	1-hour TSP	58	ug/m3
TMCLKL	HY/2012/08	2015-09-11	ASR6	Sunny	13:33	1-hour TSP	132	ug/m3
TMCLKL	HY/2012/08	2015-09-11	ASR6	Sunny	14:35	1-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	2015-09-11	ASR6	Sunny	15:37	1-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2015-09-11	ASR5	Sunny	13:43	1-hour TSP	147	ug/m3
TMCLKL	HY/2012/08	2015-09-11	ASR5	Sunny	14:45	1-hour TSP	102	ug/m3
TMCLKL	HY/2012/08	2015-09-11	ASR5	Sunny	15:47	1-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2015-09-11	ASR1	Sunny	13:45	1-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	2015-09-11	ASR1	Sunny	14:47	1-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2015-09-11	ASR1	Sunny	15:49	1-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	2015-09-11	AQMS1	Sunny	13:56	1-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	2015-09-11	AQMS1	Sunny	14:58	1-hour TSP	97	ug/m3
TMCLKL	HY/2012/08	2015-09-11	AQMS1	Sunny	16:00	1-hour TSP	107	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2015-09-14	ASR10	Sunny	13:55	1-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	2015-09-14	ASR10	Sunny	14:57	1-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2015-09-14	ASR10	Sunny	15:59	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2015-09-14	ASR6	Sunny	14:06	1-hour TSP	123	ug/m3
TMCLKL	HY/2012/08	2015-09-14	ASR6	Sunny	16:10	1-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	2015-09-14	ASR6	Sunny	15:08	1-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2015-09-14	ASR5	Sunny	14:17	1-hour TSP	130	ug/m3
TMCLKL	HY/2012/08	2015-09-14	ASR5	Sunny	15:19	1-hour TSP	112	ug/m3
TMCLKL	HY/2012/08	2015-09-14	ASR5	Sunny	16:21	1-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2015-09-14	ASR1	Sunny	14:29	1-hour TSP	123	ug/m3
TMCLKL	HY/2012/08	2015-09-14	ASR1	Sunny	15:31	1-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	2015-09-14	ASR1	Sunny	16:33	1-hour TSP	102	ug/m3
TMCLKL	HY/2012/08	2015-09-14	AQMS1	Sunny	14:40	1-hour TSP	126	ug/m3
TMCLKL	HY/2012/08	2015-09-14	AQMS1	Sunny	15:42	1-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	2015-09-14	AQMS1	Sunny	16:44	1-hour TSP	149	ug/m3
TMCLKL	HY/2012/08	2015-09-17	ASR10	Sunny	13:52	1-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	2015-09-17	ASR10	Sunny	14:54	1-hour TSP	59	ug/m3
TMCLKL	HY/2012/08	2015-09-17	ASR10	Sunny	15:56	1-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2015-09-17	ASR6	Sunny	14:02	1-hour TSP	77	ug/m3
TMCLKL	HY/2012/08	2015-09-17	ASR6	Sunny	15:04	1-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2015-09-17	ASR6	Sunny	16:06	1-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2015-09-17	ASR5	Sunny	14:13	1-hour TSP	78	ug/m3
TMCLKL	HY/2012/08	2015-09-17	ASR5	Sunny	15:15	1-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2015-09-17	ASR5	Sunny	16:17	1-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2015-09-17	ASR1	Sunny	14:25	1-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	2015-09-17	ASR1	Sunny	15:27	1-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	2015-09-17	ASR1	Sunny	16:29	1-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2015-09-17	AQMS1	Sunny	14:36	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2015-09-17	AQMS1	Sunny	15:38	1-hour TSP	122	ug/m3
TMCLKL	HY/2012/08	2015-09-17	AQMS1	Sunny	16:40	1-hour TSP	97	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2015-09-20	ASR10	Sunny	09:05	1-hour TSP	42	ug/m3
TMCLKL	HY/2012/08	2015-09-20	ASR10	Sunny	10:07	1-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2015-09-20	ASR10	Sunny	11:09	1-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2015-09-20	ASR6	Sunny	09:17	1-hour TSP	91	ug/m3
TMCLKL	HY/2012/08	2015-09-20	ASR6	Sunny	10:19	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2015-09-20	ASR6	Sunny	11:21	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2015-09-20	ASR5	Sunny	09:28	1-hour TSP	74	ug/m3
TMCLKL	HY/2012/08	2015-09-20	ASR5	Sunny	10:30	1-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2015-09-20	ASR5	Sunny	11:32	1-hour TSP	91	ug/m3
TMCLKL	HY/2012/08	2015-09-20	ASR1	Sunny	09:39	1-hour TSP	60	ug/m3
TMCLKL	HY/2012/08	2015-09-20	ASR1	Sunny	10:41	1-hour TSP	58	ug/m3
TMCLKL	HY/2012/08	2015-09-20	ASR1	Sunny	11:43	1-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2015-09-20	AQMS1	Sunny	09:51	1-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2015-09-20	AQMS1	Sunny	10:53	1-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2015-09-20	AQMS1	Sunny	11:55	1-hour TSP	65	ug/m3
TMCLKL	HY/2012/08	2015-09-23	ASR10	Sunny	13:18	1-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2015-09-23	ASR10	Sunny	14:20	1-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2015-09-23	ASR10	Sunny	15:22	1-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2015-09-23	ASR6	Sunny	13:29	1-hour TSP	106	ug/m3
TMCLKL	HY/2012/08	2015-09-23	ASR6	Sunny	14:31	1-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2015-09-23	ASR6	Sunny	15:33	1-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2015-09-23	ASR5	Sunny	13:39	1-hour TSP	115	ug/m3
TMCLKL	HY/2012/08	2015-09-23	ASR5	Sunny	14:41	1-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2015-09-23	ASR5	Sunny	15:43	1-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	2015-09-23	ASR1	Sunny	13:50	1-hour TSP	64	ug/m3
TMCLKL	HY/2012/08	2015-09-23	ASR1	Sunny	14:52	1-hour TSP	78	ug/m3
TMCLKL	HY/2012/08	2015-09-23	ASR1	Sunny	15:54	1-hour TSP	75	ug/m3
TMCLKL	HY/2012/08	2015-09-23	AQMS1	Sunny	14:02	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2015-09-23	AQMS1	Sunny	15:04	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2015-09-23	AQMS1	Sunny	16:06	1-hour TSP	93	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2015-09-26	ASR10	Sunny	14:35	1-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2015-09-26	ASR10	Sunny	15:37	1-hour TSP	58	ug/m3
TMCLKL	HY/2012/08	2015-09-26	ASR10	Sunny	16:39	1-hour TSP	59	ug/m3
TMCLKL	HY/2012/08	2015-09-26	ASR6	Sunny	14:46	1-hour TSP	64	ug/m3
TMCLKL	HY/2012/08	2015-09-26	ASR6	Sunny	15:48	1-hour TSP	59	ug/m3
TMCLKL	HY/2012/08	2015-09-26	ASR6	Sunny	16:50	1-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2015-09-26	ASR5	Sunny	14:56	1-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2015-09-26	ASR5	Sunny	15:58	1-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	2015-09-26	ASR5	Sunny	17:00	1-hour TSP	108	ug/m3
TMCLKL	HY/2012/08	2015-09-26	ASR1	Sunny	15:08	1-hour TSP	119	ug/m3
TMCLKL	HY/2012/08	2015-09-26	ASR1	Sunny	16:10	1-hour TSP	78	ug/m3
TMCLKL	HY/2012/08	2015-09-26	ASR1	Sunny	17:12	1-hour TSP	128	ug/m3
TMCLKL	HY/2012/08	2015-09-26	AQMS1	Sunny	15:19	1-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2015-09-26	AQMS1	Sunny	16:21	1-hour TSP	77	ug/m3
TMCLKL	HY/2012/08	2015-09-26	AQMS1	Sunny	17:23	1-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	2015-09-29	ASR10	Sunny	14:18	1-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2015-09-29	ASR10	Sunny	15:20	1-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	2015-09-29	ASR10	Sunny	16:22	1-hour TSP	87	ug/m3
TMCLKL	HY/2012/08	2015-09-29	ASR6	Sunny	14:29	1-hour TSP	186	ug/m3
TMCLKL	HY/2012/08	2015-09-29	ASR6	Sunny	15:31	1-hour TSP	238	ug/m3
TMCLKL	HY/2012/08	2015-09-29	ASR6	Sunny	16:33	1-hour TSP	231	ug/m3
TMCLKL	HY/2012/08	2015-09-29	ASR5	Sunny	14:40	1-hour TSP	236	ug/m3
TMCLKL	HY/2012/08	2015-09-29	ASR5	Sunny	15:42	1-hour TSP	293	ug/m3
TMCLKL	HY/2012/08	2015-09-29	ASR5	Sunny	16:44	1-hour TSP	276	ug/m3
TMCLKL	HY/2012/08	2015-09-29	ASR1	Sunny	14:50	1-hour TSP	187	ug/m3
TMCLKL	HY/2012/08	2015-09-29	ASR1	Sunny	15:52	1-hour TSP	247	ug/m3
TMCLKL	HY/2012/08	2015-09-29	ASR1	Sunny	16:54	1-hour TSP	283	ug/m3
TMCLKL	HY/2012/08	2015-09-29	AQMS1	Sunny	15:02	1-hour TSP	127	ug/m3
TMCLKL	HY/2012/08	2015-09-29	AQMS1	Sunny	16:04	1-hour TSP	153	ug/m3
TMCLKL	HY/2012/08	2015-09-29	AQMS1	Sunny	17:06	1-hour TSP	167	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2015-09-02	ASR10	Cloudy	17:12	24-hour TSP	58	ug/m3
TMCLKL	HY/2012/08	2015-09-02	ASR6	Cloudy	17:23	24-hour TSP	58	ug/m3
TMCLKL	HY/2012/08	2015-09-02	ASR5	Cloudy	17:33	24-hour TSP	45	ug/m3
TMCLKL	HY/2012/08	2015-09-02	ASR1	Cloudy	17:44	24-hour TSP	61	ug/m3
TMCLKL	HY/2012/08	2015-09-02	AQMS1	Cloudy	17:56	24-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2015-09-05	AQMS1	Sunny	17:56	24-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2015-09-05	ASR1	Sunny	17:44	24-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2015-09-05	ASR5	Sunny	17:33	24-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2015-09-05	ASR6	Sunny	17:21	24-hour TSP	54	ug/m3
TMCLKL	HY/2012/08	2015-09-05	ASR10	Sunny	17:10	24-hour TSP	60	ug/m3
TMCLKL	HY/2012/08	2015-09-08	ASR10	Sunny	16:46	24-hour TSP	51	ug/m3
TMCLKL	HY/2012/08	2015-09-08	ASR6	Sunny	16:57	24-hour TSP	61	ug/m3
TMCLKL	HY/2012/08	2015-09-08	ASR5	Sunny	17:09	24-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2015-09-08	ASR1	Sunny	17:21	24-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2015-09-08	AQMS1	Sunny	17:33	24-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2015-09-11	ASR10	Sunny	16:28	24-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2015-09-11	ASR6	Sunny	16:39	24-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	2015-09-11	ASR5	Sunny	16:49	24-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	2015-09-11	ASR1	Sunny	16:51	24-hour TSP	75	ug/m3
TMCLKL	HY/2012/08	2015-09-11	AQMS1	Sunny	17:02	24-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2015-09-14	ASR10	Sunny	17:01	24-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	2015-09-14	ASR6	Sunny	17:12	24-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2015-09-14	ASR5	Sunny	17:23	24-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2015-09-14	ASR1	Sunny	17:35	24-hour TSP	82	ug/m3
TMCLKL	HY/2012/08	2015-09-14	AQMS1	Sunny	17:46	24-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2015-09-17	ASR10	Sunny	16:58	24-hour TSP	45	ug/m3
TMCLKL	HY/2012/08	2015-09-17	ASR6	Sunny	17:08	24-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2015-09-17	ASR5	Sunny	17:19	24-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2015-09-17	ASR1	Sunny	17:31	24-hour TSP	82	ug/m3
TMCLKL	HY/2012/08	2015-09-17	AQMS1	Sunny	17:42	24-hour TSP	73	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2015-09-20	ASR10	Sunny	12:11	24-hour TSP	46	ug/m3
TMCLKL	HY/2012/08	2015-09-20	ASR6	Sunny	12:33	24-hour TSP	59	ug/m3
TMCLKL	HY/2012/08	2015-09-20	ASR5	Sunny	12:34	24-hour TSP	57	ug/m3
TMCLKL	HY/2012/08	2015-09-20	ASR1	Sunny	12:45	24-hour TSP	49	ug/m3
TMCLKL	HY/2012/08	2015-09-20	AQMS1	Sunny	12:57	24-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2015-09-23	ASR10	Sunny	16:24	24-hour TSP	54	ug/m3
TMCLKL	HY/2012/08	2015-09-23	ASR6	Sunny	16:35	24-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2015-09-23	ASR5	Sunny	16:45	24-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	2015-09-23	ASR1	Sunny	16:56	24-hour TSP	61	ug/m3
TMCLKL	HY/2012/08	2015-09-23	AQMS1	Sunny	17:08	24-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2015-09-26	ASR10	Sunny	17:41	24-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2015-09-26	ASR6	Sunny	17:52	24-hour TSP	61	ug/m3
TMCLKL	HY/2012/08	2015-09-26	ASR5	Sunny	18:02	24-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	2015-09-26	ASR1	Sunny	18:14	24-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2015-09-26	AQMS1	Sunny	18:25	24-hour TSP	57	ug/m3
TMCLKL	HY/2012/08	2015-09-29	ASR10	Sunny	17:24	24-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2015-09-29	ASR6	Sunny	17:35	24-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2015-09-29	ASR5	Sunny	17:46	24-hour TSP	124	ug/m3
TMCLKL	HY/2012/08	2015-09-29	ASR1	Sunny	17:56	24-hour TSP	137	ug/m3
TMCLKL	HY/2012/08	2015-09-29	AQMS1	Sunny	18:08	24-hour TSP	87	ug/m3

Appendix H

# Meteorological Data

	Meteorolog	ical Data for Impact Monitoring in the repo	rting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction (degree)
15/09/02	0:00	0.3	122
15/09/02	1:00	0.4	134
15/09/02	2:00	1.1	106
15/09/02	3:00	0.2	56
15/09/02	4:00	1.3	88
15/09/02	5:00	0.8	69
15/09/02	6:00	0.6	131
15/09/02	7:00	0.7	157
15/09/02	8:00	0.9	181
15/09/02	9:00	2.1	162
15/09/02	10:00	2.5	174
15/09/02	11:00		130
15/09/02	12:00	2.4	125
15/09/02	13:00	1.8	
15/09/02	14:00	1.5	
15/09/02	15:00	1.1	109
15/09/02	16:00		85
15/09/02	17:00	1.3	33
15/09/02	18:00	0.5	214
15/09/02	19:00	0.6	
15/09/02	20:00	0.8	251
15/09/02	21:00		
15/09/02	22:00	0.4	207
15/09/02	23:00	0.8	113
15/09/03	0:00	0.7	124
15/09/03	1:00	0.6	
15/09/03	2:00	0.4	105
15/09/03	3:00	0.5	111
15/09/03	4:00		
15/09/03	5:00		
15/09/03	6:00		
15/09/03	7:00		
15/09/03	8:00		113
15/09/03	9:00		
15/09/03	10:00		108
15/09/03 15/09/03	11:00		
15/09/03	12:00		
15/09/03	13:00		147
15/09/03	14:00		
15/09/03	16:00		92 111
15/09/03	17:00		103
15/09/03	18:00		
15/09/03	19:00		113
15/09/03	20:00		
15/09/03	21:00		
15/09/03	22:00		
15/09/03	23:00		132
15/09/05	0:00		
15/09/05	1:00		
15/09/05	2:00		131
15/09/05	3:00		
15/09/05	4:00		
15/09/05	5:00		98

	Meteorolog	ical Data for Impact Monitoring in the repo	rting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction (degree)
15/09/05	6:00	1.8	45
15/09/05	7:00	1.1	67
15/09/05	8:00	0.8	87
15/09/05	9:00	0.6	93
15/09/05	10:00	0.6	55
15/09/05	11:00	1.5	71
15/09/05	12:00	1.2	68
15/09/05	13:00	0.4	92
15/09/05	14:00	1.6	123
15/09/05	15:00	0.7	107
15/09/05	16:00	0.9	128
15/09/05	17:00	0.8	95
15/09/05	18:00	0.7	84
15/09/05	19:00	0.3	63
15/09/05	20:00	1.2	51
15/09/05	21:00	1.4	44
15/09/05	22:00	1.3	345
15/09/05	23:00	1.8	69
15/09/06	0:00	0.3	105
15/09/06	1:00	0.9	123
15/09/06	2:00	1.6	142
15/09/06	3:00	2.3	156
15/09/06	4:00	2.1	111
15/09/06	5:00		231
15/09/06	6:00	2.5	241
15/09/06	7:00	1.8	269
15/09/06	8:00		222
15/09/06	9:00		
15/09/06	10:00		
15/09/06	11:00		
15/09/06	12:00		
15/09/06	13:00		
15/09/06	14:00		163
15/09/06	15:00		177
15/09/06	16:00		
15/09/06	17:00		136
15/09/06	18:00		
15/09/06	19:00		
15/09/06	20:00		55
15/09/06	21:00		
15/09/06	22:00		102
15/09/06	23:00		
15/09/08	0:00		103
15/09/08	1:00		
15/09/08	2:00		
15/09/08	3:00		100
15/09/08	4:00		
15/09/08	5:00		
15/09/08	6:00		88
15/09/08	7:00		96
15/09/08	8:00		
15/09/08	9:00		
15/09/08	10:00		
15/09/08	11:00	2.2	156

	Meteorolog	ical Data for Impact Monitoring in the repo	rting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction (degree)
15/09/08	12:00	3.1	162
15/09/08	13:00	3.6	139
15/09/08	14:00	3.1	144
15/09/08	15:00	4	157
15/09/08	16:00	4	163
15/09/08	17:00	4	157
15/09/08	18:00	3.1	166
15/09/08	19:00	3.1	147
15/09/08	20:00	2.7	122
15/09/08	21:00	2.2	95
15/09/08	22:00	1.3	101
15/09/08	23:00	1.3	88
15/09/09	0:00	1.3	103
15/09/09	1:00	1.3	102
15/09/09	2:00	1.3	98
15/09/09	3:00	1.8	
15/09/09	4:00	1.3	
15/09/09	5:00	1.8	
15/09/09	6:00		
15/09/09	7:00	1.3	85
15/09/09	8:00	2.2	93
15/09/09	9:00		94
15/09/09	10:00	2.7	122
15/09/09	11:00	2.7	171
15/09/09	12:00	2.7	169
15/09/09	13:00	2.7	182
15/09/09	14:00		174
15/09/09	15:00		165
15/09/09	16:00		
15/09/09	17:00		
15/09/09	18:00		
15/09/09	19:00		
15/09/09	20:00		
15/09/09	21:00		
15/09/09	22:00		
15/09/09	23:00		
15/09/11	0:00		
15/09/11	1:00		
15/09/11	2:00		
15/09/11	3:00		
15/09/11	4:00		
15/09/11	5:00		
15/09/11	6:00		
15/09/11	7:00		
15/09/11	9:00		
15/09/11 15/09/11	10:00		
15/09/11	11:00		
15/09/11	11:00		
15/09/11	12:00		
15/09/11	13:00		
15/09/11	14:00		
15/09/11	15:00		
15/09/11	17:00		

	Meteorolog	ical Data for Impact Monitoring in the repo	rting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction (degree)
15/09/11	18:00	2.7	168
15/09/11	19:00	3.1	171
15/09/11	20:00	2.7	135
15/09/11	21:00	2.7	140
15/09/11	22:00	2.2	132
15/09/11	23:00	1.8	155
15/09/12	0:00	1.3	137
15/09/12	1:00	0.9	154
15/09/12	2:00	0	144
15/09/12	3:00	0	122
15/09/12	4:00	0	109
15/09/12	5:00	0.4	129
15/09/12	6:00	0.4	85
15/09/12	7:00	0.4	79
15/09/12	8:00	0.9	56
15/09/12	9:00		49
15/09/12	10:00	0.4	164
15/09/12	11:00		171
15/09/12	12:00	0.9	232
15/09/12	13:00	0.9	229
15/09/12	14:00	0.4	274
15/09/12	15:00		356
15/09/12	16:00		
15/09/12	17:00		
15/09/12	18:00		125
15/09/12	19:00		140
15/09/12	20:00		
15/09/12	21:00		117
15/09/12	22:00		
15/09/12	23:00		
15/09/14	0:00		
15/09/14	1:00		
15/09/14	2:00		
15/09/14	3:00		
15/09/14	4:00		
15/09/14	5:00		
15/09/14	6:00		
15/09/14	7:00		
15/09/14	8:00		
15/09/14	9:00		
15/09/14	10:00		
15/09/14	11:00		
15/09/14	12:00		
15/09/14	13:00		
15/09/14	14:00		
15/09/14	15:00 16:00		
15/09/14 15/09/14	16:00		
15/09/14	17:00		163 122
	18:00		
15/09/14 15/09/14	20:00		
	20:00		
15/09/14 15/09/14	21:00		
15/09/14	22:00		

	Meteorolog	ical Data for Impact Monitoring in the repo	rting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction (degree)
15/09/15	0:00	1.8	126
15/09/15	1:00	1.8	141
15/09/15	2:00	2.2	85
15/09/15	3:00	2.7	99
15/09/15	4:00	1.3	46
15/09/15	5:00	1.3	104
15/09/15	6:00	1.3	85
15/09/15	7:00	2.2	71
15/09/15	8:00	1.8	69
15/09/15	9:00	1.8	84
15/09/15	10:00	1.8	39
15/09/15	11:00	1.8	121
15/09/15	12:00	2.7	185
15/09/15	13:00	3.6	174
15/09/15	14:00	2.7	177
15/09/15	15:00	2.2	168
15/09/15	16:00	3.1	105
15/09/15	17:00	3.6	113
15/09/15	18:00	2.2	105
15/09/15	19:00	2.2	132
15/09/15	20:00	2.7	142
15/09/15	21:00	2.7	151
15/09/15	22:00	2.7	162
15/09/15	23:00	2.7	87
15/09/17	0:00		96
15/09/17	1:00	0.4	100
15/09/17	2:00		38
15/09/17	3:00		94
15/09/17	4:00		
15/09/17	5:00		68
15/09/17	6:00		54
15/09/17	7:00		101
15/09/17	8:00		111
15/09/17	9:00		104
15/09/17	10:00		162
15/09/17	11:00		155
15/09/17	12:00		
15/09/17	13:00		141
15/09/17	14:00		175
15/09/17	15:00		169
15/09/17	16:00		128
15/09/17	17:00		174
15/09/17	18:00		132
15/09/17	19:00		142
15/09/17	20:00		104
15/09/17 15/09/17	21:00 22:00		125
15/09/17	22:00		89
15/09/18	0:00		122
15/09/18	1:00		122
15/09/18	2:00		142
	3:00		132
15/09/18 15/09/18	4:00		
15/09/18 15/09/18	4:00		85 92

	-	ical Data for Impact Monitoring in the repo	
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction (degree)
15/09/18	6:00	0.4	98
15/09/18	7:00	0.4	101
15/09/18	8:00	0.9	112
15/09/18	9:00	0.9	
15/09/18	10:00	1.8	185
15/09/18	11:00	0.9	174
15/09/18	12:00	0.9	162
15/09/18	13:00	0.9	221
15/09/18	14:00	0.9	203
15/09/18	15:00	0.9	225
15/09/18	16:00	1.8	241
15/09/18	17:00		232
15/09/18	18:00	1.8	209
15/09/18	19:00	1.3	177
15/09/18	20:00	0.9	116
15/09/18	21:00	0.9	84
15/09/18	22:00		77
15/09/18	23:00	1.3	81
15/09/20	0:00	1.3	103
15/09/20	1:00	1.3	166
15/09/20	2:00	1.8	169
15/09/20	3:00	0.4	172
15/09/20	4:00	1.3	173
15/09/20	5:00	0	169
15/09/20	6:00	0	175
15/09/20	7:00	0	11
15/09/20	8:00	0	13
15/09/20	9:00		261
15/09/20	10:00		
15/09/20	11:00		233
15/09/20	12:00		301
15/09/20	13:00		304
15/09/20	14:00		262
15/09/20	15:00		241
15/09/20	16:00		233
15/09/20	17:00 18:00		177
15/09/20 15/09/20	18:00		234
15/09/20	20:00		175 86
15/09/20	20:00		84
15/09/20	22:00		126
15/09/20	22:00		120
15/09/21	0:00		168
15/09/21	1:00		175
15/09/21	2:00		173
15/09/21	3:00		163
15/09/21	4:00		183
15/09/21	5:00		182
15/09/21	6:00		30
15/09/21	7:00		66
15/09/21	8:00		43
15/09/21	9:00		40
15/09/21	10:00		171
15/09/21	11:00		169

	Meteorolog	ical Data for Impact Monitoring in the repo	rting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction (degree)
15/09/21	12:00	0	89
15/09/21	13:00	0.4	93
15/09/21	14:00	0.4	342
15/09/21	15:00	0	339
15/09/21	16:00	0.4	174
15/09/21	17:00	0	157
15/09/21	18:00	0	200
15/09/21	19:00	0	203
15/09/21	20:00	0.4	125
15/09/21	21:00	0	131
15/09/21	22:00	0	142
15/09/21	23:00	0	129
15/09/23	0:00	2.2	118
15/09/23	1:00	1.3	137
15/09/23	2:00	0	115
15/09/23	3:00	0	106
15/09/23	4:00	0	118
15/09/23	5:00	0	123
15/09/23	6:00	0	140
15/09/23	7:00	0	119
15/09/23	8:00	0	127
15/09/23	9:00	0	138
15/09/23	10:00	0.4	141
15/09/23	11:00	0.9	212
15/09/23	12:00	1.8	216
15/09/23	13:00	1.8	232
15/09/23	14:00	1.3	222
15/09/23	15:00	1.3	225
15/09/23	16:00		
15/09/23	17:00		
15/09/23	18:00		105
15/09/23	19:00		166
15/09/23	20:00		132
15/09/23	21:00		118
15/09/23	22:00		125
15/09/23	23:00		92
15/09/24	0:00		
15/09/24	1:00		
15/09/24	2:00		
15/09/24	3:00		
15/09/24	4:00		
15/09/24	5:00		
15/09/24	6:00		
15/09/24	7:00		
15/09/24	8:00		
15/09/24	9:00		274
15/09/24	10:00		268
15/09/24	11:00		321
15/09/24	12:00		246
15/09/24	13:00		
15/09/24	14:00		
15/09/24	15:00		
15/09/24	16:00		285
15/09/24	17:00	0.4	266

	Meteorolog	ical Data for Impact Monitoring in the repo	rting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction (degree)
15/09/24	18:00	0	301
15/09/24	19:00	0	301
15/09/24	20:00	0	312
15/09/24	21:00	0	322
15/09/24	22:00	0.4	305
15/09/24	23:00	0.4	285
15/09/26	0:00	0.4	5
15/09/26	1:00	0	10
15/09/26	2:00	0	3
15/09/26	3:00	0	5
15/09/26	4:00	0	266
15/09/26	5:00	0.4	251
15/09/26	6:00	0	232
15/09/26	7:00	0	281
15/09/26	8:00	0	245
15/09/26	9:00	0.4	321
15/09/26	10:00	0.9	349
15/09/26	11:00	0.9	331
15/09/26	12:00	0.9	305
15/09/26	13:00	0.9	316
15/09/26	14:00	0.4	325
15/09/26	15:00	1.3	30
15/09/26	16:00	2.2	125
15/09/26	17:00	1.8	139
15/09/26	18:00	0.9	145
15/09/26	19:00	1.3	23
15/09/26	20:00	0.9	65
15/09/26	21:00	0.9	
15/09/26	22:00	1.8	143
15/09/26	23:00	1.8	111
15/09/27	0:00		
15/09/27	1:00		
15/09/27	2:00		
15/09/27	3:00		
15/09/27	4:00		
15/09/27	5:00		
15/09/27	6:00		
15/09/27	7:00		
15/09/27	8:00		52
15/09/27	9:00		
15/09/27	10:00		
15/09/27	11:00		
15/09/27	12:00		
15/09/27	13:00	0.9	
15/09/27	14:00		
15/09/27	15:00		
15/09/27	16:00		
15/09/27	17:00		
15/09/27	18:00	1.3	
15/09/27	19:00		
15/09/27	20:00		
15/09/27	21:00		
15/09/27	22:00		
15/09/27	23:00	0.9	5

	Meteorolog	ical Data for Impact Monitoring in the repo	orting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction (degree)
15/09/29	0:00	0	341
15/09/29	1:00	0.4	333
15/09/29	2:00	0.9	6
15/09/29	3:00	0	351
15/09/29	4:00	0.4	323
15/09/29	5:00	0.9	349
15/09/29	6:00	0.9	330
15/09/29	7:00	0.9	357
15/09/29	8:00	0.4	321
15/09/29	9:00	1.3	319
15/09/29	10:00	1.8	304
15/09/29	11:00	2.2	315
15/09/29	12:00	1.8	300
15/09/29	13:00	1.3	314
15/09/29	14:00	1.3	347
15/09/29	15:00	1.8	332
15/09/29	16:00	1.3	349
15/09/29	17:00	1.3	351
15/09/29	18:00	1.3	348
15/09/29	19:00	0.9	5
15/09/29	20:00	0.9	10
15/09/29	21:00	0	357
15/09/29	22:00	0	3
15/09/29	23:00	0	11
15/09/30	0:00	0.4	12
15/09/30	1:00	0.4	10
15/09/30	2:00	0.4	8
15/09/30	3:00	0	79
15/09/30	4:00	0	85
15/09/30	5:00	0	72
15/09/30	6:00	0	65
15/09/30	7:00	0.9	62
15/09/30	8:00	1.3	67
15/09/30	9:00	1.3	64
15/09/30	10:00	1.8	178
15/09/30	11:00	1.8	132
15/09/30	12:00	1.3	152
15/09/30	13:00	1.3	131
15/09/30	14:00	1.8	105
15/09/30	15:00	3.1	126
15/09/30	16:00	3.1	174
15/09/30	17:00	3.6	168
15/09/30	18:00	2.2	155
15/09/30	19:00	2.2	149
15/09/30	20:00		
15/09/30	21:00		
15/09/30	22:00		
15/09/30	23:00	1.3	151

Appendix I

Impact Dolphin Monitoring Survey

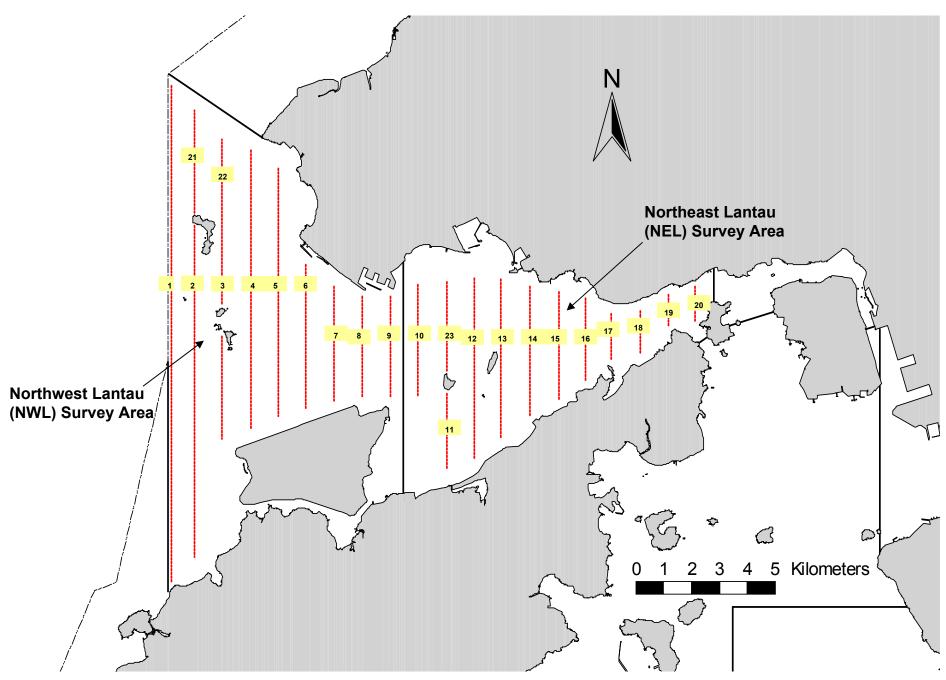


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

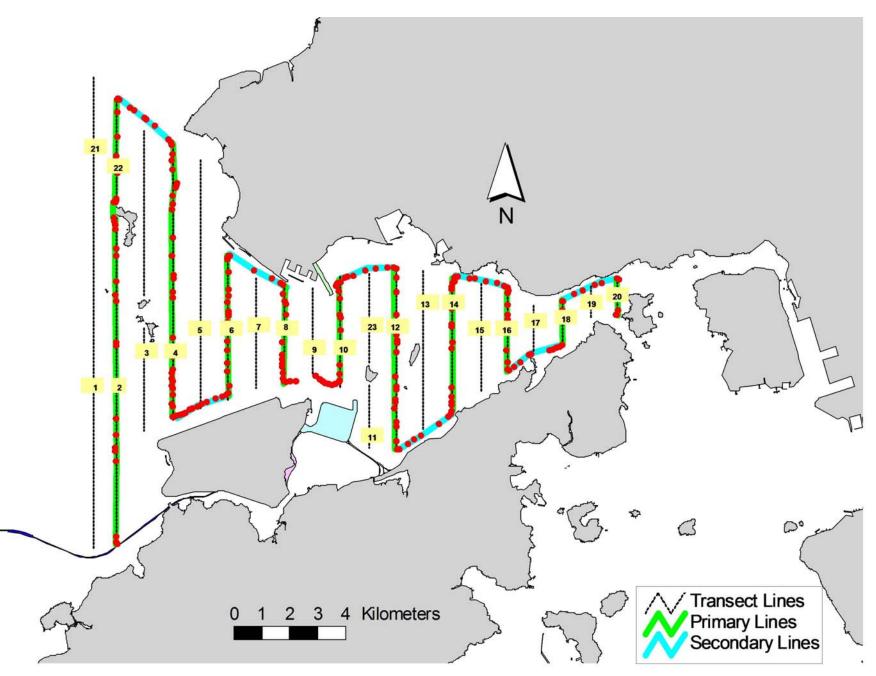


Figure 2. Survey Route on September 2<sup>nd</sup>, 2015 (from HKLR03 project)

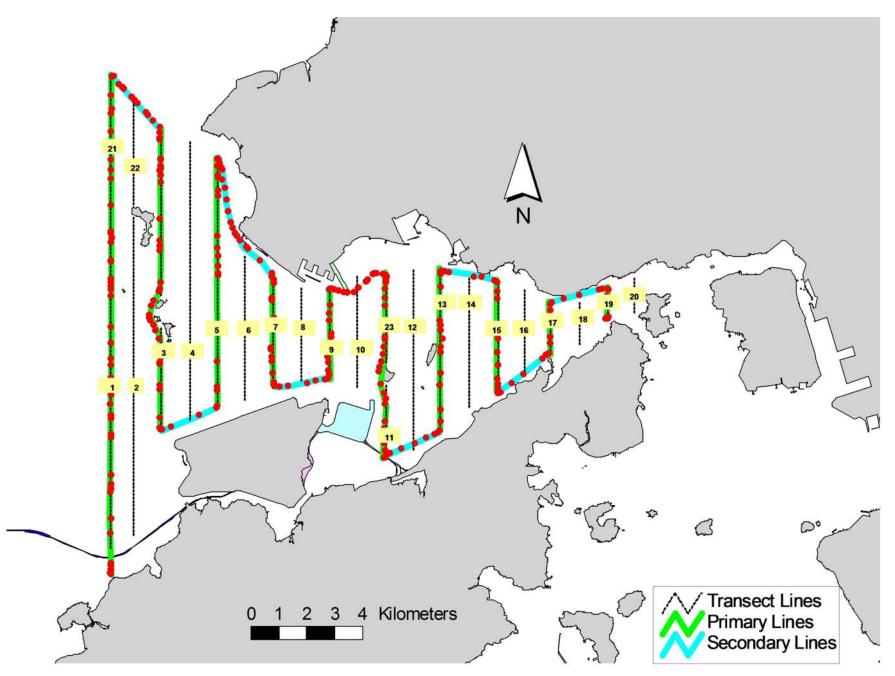


Figure 3. Survey Route on September 11<sup>th</sup>, 2015 (from HKLR03 project)

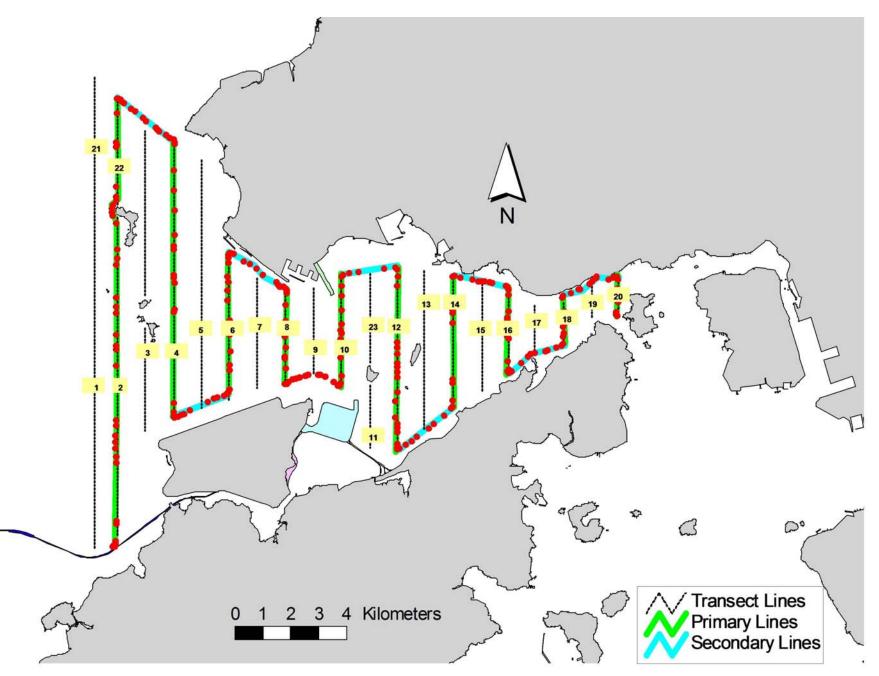


Figure 4. Survey Route on September 17<sup>th</sup>, 2015 (from HKLR03 project)

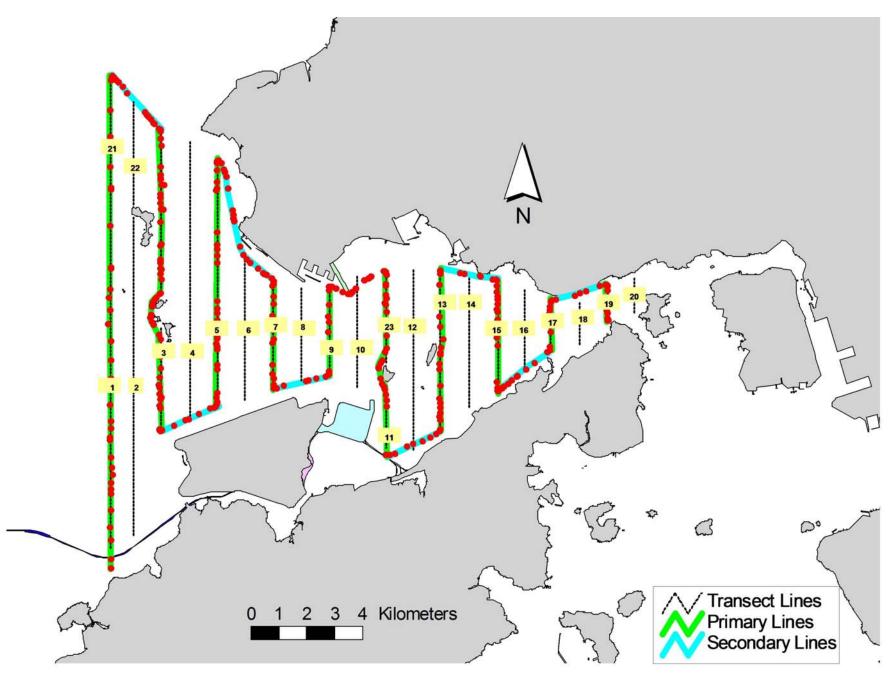


Figure 5. Survey Route on September 29<sup>th</sup>, 2015 (from HKLR03 project)

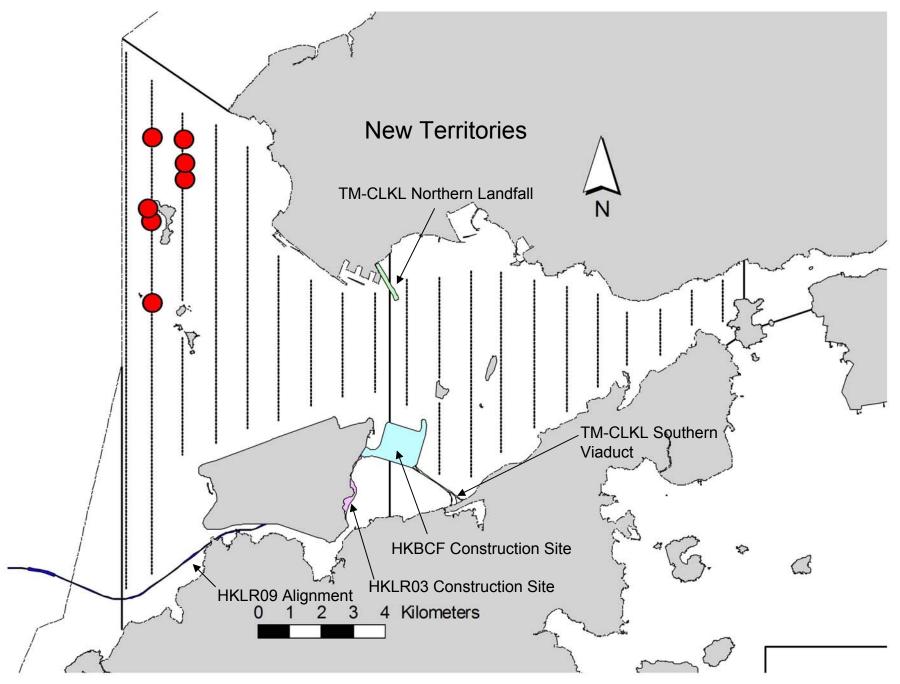


Figure 6. Distribution of Chinese White Dolphin Sightings During September 2015 HKLR03 Monitoring Surveys

# Appendix I. HKLR03 Survey Effort Database (September 2015)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
2-Sep-15	NW LANTAU	2	1.92	AUTUMN	STANDARD31516	HKLR	Р
2-Sep-15	NW LANTAU	3	30.24	AUTUMN	STANDARD31516	HKLR	Р
2-Sep-15	NW LANTAU	3	6.89	AUTUMN	STANDARD31516	HKLR	S
2-Sep-15	NE LANTAU	2	11.59	AUTUMN	STANDARD31516	HKLR	Р
2-Sep-15	NE LANTAU	3	7.98	AUTUMN	STANDARD31516	HKLR	Р
2-Sep-15	NE LANTAU	2	8.83	AUTUMN	STANDARD31516	HKLR	S
2-Sep-15	NE LANTAU	3	2.00	AUTUMN	STANDARD31516	HKLR	S
11-Sep-15	NW LANTAU	2	30.26	AUTUMN	STANDARD31516	HKLR	Р
11-Sep-15	NW LANTAU	3	10.73	AUTUMN	STANDARD31516	HKLR	Р
11-Sep-15	NW LANTAU	2	4.41	AUTUMN	STANDARD31516	HKLR	S
11-Sep-15	NW LANTAU	3	8.40	AUTUMN	STANDARD31516	HKLR	S
11-Sep-15	NE LANTAU	2	7.75	AUTUMN	STANDARD31516	HKLR	Р
11-Sep-15	NE LANTAU	3	8.95	AUTUMN	STANDARD31516	HKLR	Р
11-Sep-15	NE LANTAU	2	7.97	AUTUMN	STANDARD31516	HKLR	S
11-Sep-15	NE LANTAU	3	2.11	AUTUMN	STANDARD31516	HKLR	S
17-Sep-15	NE LANTAU	2	9.43	AUTUMN	STANDARD31516	HKLR	Р
17-Sep-15	NE LANTAU	3	10.80	AUTUMN	STANDARD31516	HKLR	Р
17-Sep-15	NE LANTAU	2	5.51	AUTUMN	STANDARD31516	HKLR	S
17-Sep-15	NE LANTAU	3	5.22	AUTUMN	STANDARD31516	HKLR	S
17-Sep-15	NW LANTAU	2	4.70	AUTUMN	STANDARD31516	HKLR	Р
17-Sep-15	NW LANTAU	3	28.06	AUTUMN	STANDARD31516	HKLR	Р
17-Sep-15	NW LANTAU	3	7.34	AUTUMN	STANDARD31516	HKLR	S
29-Sep-15	NE LANTAU	2	3.00	AUTUMN	STANDARD31517	HKLR	Р
29-Sep-15	NE LANTAU	3	12.12	AUTUMN	STANDARD31518	HKLR	Р
29-Sep-15	NE LANTAU	4	1.90	AUTUMN	STANDARD31519	HKLR	Р
29-Sep-15	NE LANTAU	2	3.06	AUTUMN	STANDARD31520	HKLR	S
29-Sep-15	NE LANTAU	3	6.02	AUTUMN	STANDARD31521	HKLR	S
29-Sep-15	NE LANTAU	4	1.10	AUTUMN	STANDARD31522	HKLR	S
29-Sep-15	NW LANTAU	2	25.66	AUTUMN	STANDARD31523	HKLR	Р
29-Sep-15	NW LANTAU	3	16.42	AUTUMN	STANDARD31524	HKLR	Р
29-Sep-15	NW LANTAU	2	1.60	AUTUMN	STANDARD31525	HKLR	S
29-Sep-15	NW LANTAU	3	11.49	AUTUMN	STANDARD31526	HKLR	S

Appendix II. HKLR03 Chinese White Dolphin Sighting Database (September 2015) (Abberviations: STG# = Sighting Number; HRD SZ = Dolphin Herd Size; BEAU = Beaufort Sea State; PSD = Perpendicular Distance; BOAT ASSOC. = Fishing Boat Association P/S: Sighting Made on Primary/Secondary Lines

DATE	STG #	TIME	HRD SZ	AREA	BEAU	PSD	EFFORT	TYPE	NORTHING	EASTING	SEASON	BOAT ASSOC.	P/S
2-Sep-15	1	1045	8	NW LANTAU	3	629	ON	HKLR	823950	805482	AUTUMN	NONE	Р
2-Sep-15	2	1122	12	NW LANTAU	2	240	ON	HKLR	826365	805436	AUTUMN	NONE	Р
2-Sep-15	3	1143	12	NW LANTAU	2	75	ON	HKLR	826741	805344	AUTUMN	NONE	Р
11-Sep-15	1	1155	6	NW LANTAU	2	349	ON	HKLR	828788	806460	AUTUMN	NONE	Р
17-Sep-15	1	1411	7	NW LANTAU	3	134	ON	HKLR	828867	805462	AUTUMN	PURSE-SEINE	Р
29-Sep-15	1	1445	5	NW LANTAU	2	430	ON	HKLR	827625	806489	AUTUMN	NONE	Р
29-Sep-15	2	1512	4	NW LANTAU	2	281	ON	HKLR	828090	806500	AUTUMN	NONE	Р

Appendix III. Individual dolphins identified during HKLR03 monitoring surveys in September 2015

ID#	DATE	STG#	AREA
CH34	29/09/15	1	NW LANTAU
CH84	02/09/15	3	NW LANTAU
NL46	02/09/15	2	NW LANTAU
	17/09/15	1	NW LANTAU
NL48	02/09/15	1	NW LANTAU
	11/09/15	1	NW LANTAU
	17/09/15	1	NW LANTAU
NL80	02/09/15	2	NW LANTAU
NL123	17/09/15	1	NW LANTAU
NL136	29/09/15	1	NW LANTAU
NL150	02/09/15	2	NW LANTAU
NL165	02/09/15	1	NW LANTAU
NL182	17/09/15	1	NW LANTAU
NL202	02/09/15	2	NW LANTAU
	17/09/15	1	NW LANTAU
	29/09/15	2	NW LANTAU
NL203	02/09/15	3	NW LANTAU
NL210	02/09/15	2	NW LANTAU
NL233	02/09/15	2	NW LANTAU
NL261	02/09/15	1	NW LANTAU
NL285	02/09/15	1	NW LANTAU
	11/09/15	1	NW LANTAU
NL286	02/09/15	2	NW LANTAU
	17/09/15	1	NW LANTAU
NL297	02/09/15	3	NW LANTAU
NL302	02/09/15	3	NW LANTAU
	11/09/15	1	NW LANTAU
NL308	02/09/15	2	NW LANTAU
NL319	29/09/15	2	NW LANTAU
WL05	02/09/15	1	NW LANTAU
	29/09/15	2	NW LANTAU
WL17	02/09/15	2	NW LANTAU
	17/09/15	1	NW LANTAU
1			



Appendix IV. Photographs of Identified Individual Dolphins in September 2015 (HKLR03)



Appendix IV. (cont'd)



Appendix IV. (cont'd)



Appendix IV. (cont'd)

Appendix J

Event and Action Plan

### Event and Action Plan for Impact Air Monitoring

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

			Action				
	ET (a)		IEC (a)		SOR (a)		Contractor(s)
Limit Level Exceedance							
	<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.
2	<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	0	30
	Limit	0	2
24-hr TSP	Action	0	5
	Limit	0	1
Water Quality	Action	0	6
	Limit	0	1
Impact Dolphin	Action	0	7
Monitoring	Limit	0	3

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

Reporting Period		Cumulative Statistics	
-	Complaints	Notifications of Summons	Successful Prosecutions
This Reporting Month (September 2015)	0	0	0
Total No. received since project commencement	4	0	0

Appendix L

Waste Flow Table



### Monthly Summary Waste Flow Table

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

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

Monthly Summary Waste Flow Table for <u>September 2015</u>

[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.)

	ľ	Monthly Break-down of <u>Inert</u> Construct	ion & Demolition Materia	als (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	64.216	0.000	0.000	0.000	64.216
Jan-2015	30.877	0.000	0.000	0.000	30.877
Feb-2015	4.152	0.000	0.000	0.000	4.152
Mar-2015	36.718	0.000	0.000	0.000	36.718
Apr-2015	62.847	0.000	0.000	0.000	62.847
May-2015	121.436	0.000	0.000	0.000	121.436
Jun-2015	247.282	0.000	0.000	0.000	247.282
Half Year Sub-total	503.312	0.000	0.000	0.000	503.312
Jul-2015	233.422	0.000	0.000	0.000	233.422
Aug-2015	62.367	0.000	0.000	0.000	62.367
Sep-2015	9.555	0.000	0.000	0.000	8.959
Oct-2015					
Nov-2015					
Dec-2015					
Project Total Quantities	872.872	0.000	0.000	0.000	872.276



			Actu	al Quantities of <u>N</u>	<u>Non-inert</u> Cons	truction Waste	Generated Mon	thly	
Month	Me	Metals Paper/ cardboard		oard packaging		Plastics (see Note 3) Chemical		al Waste	Others, e.g. General Refuse disposed at Landfill
	(in '0	000kg)	(in '(	)00kg)	(in '0	000kg)	(in '0	000kg)	(in '000ton)
	generated	recycled	generated	recycled	generated	recycled	generated	Disposed	generated
Sub-total	0.000	0.000	1.050	1.050	0.000	0.000	0.110	0.110	0.605
Jan-2015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.080
Feb-2015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.074
Mar-2015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.115
Apr-2015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.091
May-2015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.108
Jun-2015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.120
Half Year Sub-total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.588
Jul-2015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.172
Aug-2015	0.000	0.000	0.000	0.300	0.000	0.000	0.000	0.000	0.246
Sep-2015	0.000	0.000	0.000	0.300	0.000	0.000	0.000	0.000	0.195
Oct-2015									
Nov-2015									
Dec-2015									
Project Total Quantities	0.000	0.000	1.050	1.350	0.000	0.000	0.110	0.110	1.806



	Forecast of Total Quantities of Construction and Demolition Materials to be Generated from the Contract*										
Total Quantity Generated	tity Generated Hard Rock and Large Broken Concrete Reused in the Contract Reused in other Projects Disposed of as Public Fill										
(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)							
100.000 0.000 0.000 100.000											

Forecast of Total Quantities of Construction and Demolition Materials to be Generated from the Contract*				
Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	General Refuse disposed of at Landfill
(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
0.000	0.000	0.000	0.000	0.200

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).