Annex B

Inspection record of Wetsep

Dragages Hong Kong 寶嘉

Dragages - Bouygues Joint Venture 寶嘉 - 布依格聯營

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

WETSEP Checking Record
污水處理機檢查記錄

WETSEP Location 污水處理機位置: 2号

Date 日期: 9-1-2017 to 至 15-1-2017

		Monday 星期一	Tuesday 星期二	Wednesday 星期三	Thursday 星期四	Friday 星期五	Saturday 星期六	Sunday 星期日
1.	WETSEP In Normal Operation? 處理機是否正常運作?	✓	✓	✓	✓	✓	✓	
2.	pH Value 酸鹼度 (6.0 – 9.0)	8	8-2	8-3	8-2	8-1	8-2	
3.	Electrical Supply OK? 電力供應正常?	✓	✓	✓	✓	✓	✓	
4.	Outlet Abnormal? (Any Sludge? Any Colour Change? Flowrate?) 出水口有否異常? (污泥有否積聚? 顏色有否改變? 流量有否異常?)	有異常	有異常	有異常	有異常	有異常	有異常	
5.	Potion Enough? 藥水是否足夠?	✓	✓	✓	✓	✓	✓	
6.	Clean the Sedimentation Tank? 有否清理隔沙缸?	有 9:30	有 9:30	有 9:30	有 9:30	有 9:30	有 9:30	
7.	Clean the De-silt Basin? 有否清理蓄泥池?	有 10:00	有 10:00	有 10:00	有 10:00	有 10:00	有 10:00	
8.	Are the Cleansing Records of Sedimentation Tank/ De-silt Basin Stored Properly? 清理蓄泥池記錄是否妥善儲存?	✓	✓	✓	✓	✓	✓	
9.	Others 其他情況	一切正常	一切正常	一切正常	一切正常	一切正常	一切正常	
	Verified by Site Foreman/Supervisor 地盤管工/監督簽署確認	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	

*Please - tick (√) in the box if the condition is normal. *若情況正常, 請於方格內加上剔號(√)。
cross (X) in the box if the condition is abnormal, and write down the non-conformance.
*若情況不尋常, 請於方格內加上交叉(X), 並寫下不尋常狀況。

17/01/2017

Contract No. HY/2012/08 Tuen Mun – Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section	**WETSEP Checking Record** **污水處理機檢查記錄**

WETSEP Location 污水處理機位置: 2号

Date 日期: 16-1-2017 to 至 22-1-2017

		Monday 星期一	Tuesday 星期二	Wednesday 星期三	Thursday 星期四	Friday 星期五	Saturday 星期六	Sunday 星期日
1.	WETSEP In Normal Operation? 處理機是否正常運作?	✓	✓					
2.	pH Value 酸鹼度 (6.0 – 9.0)	8.1	8.7					
3.	Electrical Supply OK? 電力供應正常?	✓	✓					
4.	Outlet Abnormal? (Any Sludge? Any Colour Change? Flowrate?) 出水口有否異常? (污泥有否積聚? 顏色有否改變? 流量有否異常?)	有異常	有異常					
5.	Potion Enough? 藥水是否足夠?	✓	✓					
6.	Clean the Sedimentation Tank? 有否清理隔沙缸?	有10:00	有10:30					
7.	Clean the De-silt Basin? 有否清理蓄泥池?	有10:00	有11:00					
8.	Are the Cleansing Records of Sedimentation Tank/ De-silt Basin Stored Properly? 清理蓄泥池記錄是否妥善儲存?	✓	✓					
9.	Others 其他情況	一切正常	一切正常					
	Verified by Site Foreman/Supervisor 地盤管工/監督簽署確認							

*Please - tick (√) in the box if the condition is normal. *若情況正常, 請於方格內加上剔號(√)。
cross (X) in the box if the condition is abnormal, and write down the non-conformance.
*若情況不尋常, 請於方格內加上交叉(X), 並寫下不尋常狀況。

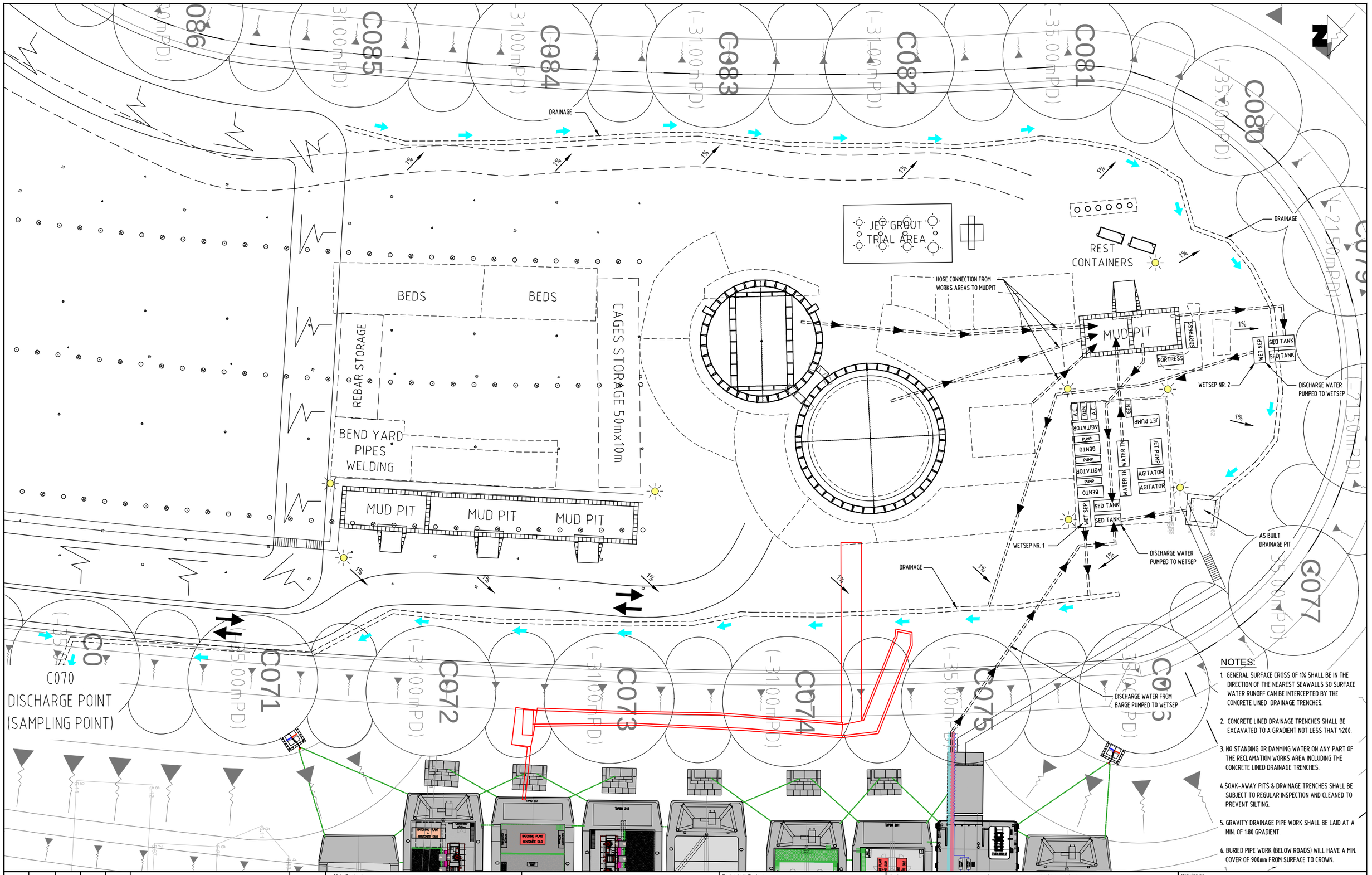
Remarks:

(1) Please keep the record

17/01/2017

Annex C

Site Drainage Management Plan



NOTES:

1. GENERAL SURFACE CROSS OF 1% SHALL BE IN THE DIRECTION OF THE NEAREST SEAWALLS SO SURFACE WATER RUNOFF CAN BE INTERCEPTED BY THE CONCRETE LINED DRAINAGE TRENCHES.
2. CONCRETE LINED DRAINAGE TRENCHES SHALL BE EXCAVATED TO A GRADIENT NOT LESS THAT 1:200.
3. NO STANDING OR DAMMING WATER ON ANY PART OF THE RECLAMATION WORKS AREA INCLUDING THE CONCRETE LINED DRAINAGE TRENCHES.
4. SOAK-AWAY PITS & DRAINAGE TRENCHES SHALL BE SUBJECT TO REGULAR INSPECTION AND CLEANED TO PREVENT SILTING.
5. GRAVITY DRAINAGE PIPE WORK SHALL BE LAID AT A MIN. OF 1:80 GRADIENT.
6. BURIED PIPE WORK (BELOW ROADS) WILL HAVE A MIN. COVER OF 900mm FROM SURFACE TO CROWN.

Rev.	Date	Drawn	Designed	Verified	Description	Approved
D	27JUL16	AGM	pkv	BLe	UPDATE	SPo
C	15JUN16	pkv	pkv	ACh	WESTSEP NR. 3 REMOVED	SPo
B	14JUN16	pkv	pkv	ACh	DISCHARGE FROM BARGE ADDED	SPo
A	07JUN16	pkv	pkv	BLe	FIRST ISSUE	SPo

Main Contractor: Dragages Hong Kong — A member of the Bouygues Construction group; Dragages - Bouygues Joint Venture 震嘉 - 布依格聯營

Client: 路政署 HIGHWAYS DEPARTMENT

Contractor's Designer: ARUP Ove Arup & Partners Hong Kong Limited

Project: Contract No. HY/2012/08
Tuen Mun - Chek Lap Kok Link -
Northern Connection Sub-Sea Tunnel Section

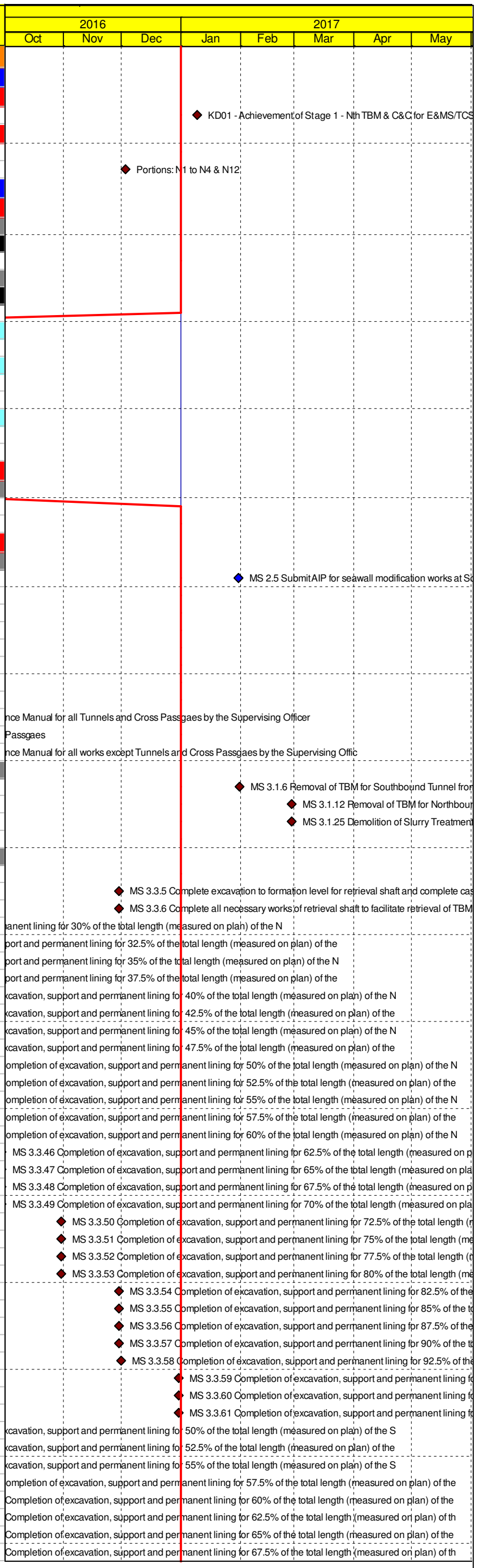
Drawing Title: SOUTHERN LANDFALL
PORTION E1 SURFACE WATER DRAINAGE & DISCHARGE ARRANGEMENT – GENERAL LAYOUT

Drawing no.: TMCLKL8–DBJ–SAA–MSI–10026
Scale: NTS
CADD Ref.: SAA–MSI–10026
Issue Status: DFT (DRAFT)
Revision: D

Annex D

Construction programme

Activity Name	Orig Dur	DWPF Start	DWPF Finish	% Comp
TMCLK - Northern Connection Sub-Sea Tunnel Section				
Contract Dates				
Commencement and Completion Dates				
KD01 - Achievement of Stage 1 - Nth TBM & C&C for E&MS/TCSS	0		09-Jan-17	0%
Site Possession Date				
Portions: X1,(N10,11,13 & 14) - Sth Landfall	0	06-Aug-15		0%
Portions: N1 to N4 & N12	0		03-Dec-16	0%
General Submissions				
Environmental				
Environmental Permit Submissions				
Supplementary WMP of C&C Tunnel at Sth.Landfall				
Supplementary WMP of C&C Tunnel at Sth.Landfall	0		28-Jun-14	0%
Sediment Quality Report/Dumping Permit				
Southern Landfall				
Southern landfall - Commencement of Shaft & C&C Tunnel Dwall	0	03-Oct-15		0%
Sediment Sampling & Testing Plan (SSTP) - if required				
Complete SSTP and Obtain EPD's approval	24	17-Feb-15	19-Mar-15	50%
Sediment Quality Report (SQR) - if required				
Advance Ground Investigation works for Sediment sampling	24	20-Mar-15	21-Apr-15	90%
Sediment Sample Testing & Report preparation	120	22-Apr-15	12-Sep-15	0%
Dumping Permit for Load Dumping (Loading Permit) - if required				
Finalize the applivation doucment and submit to EPD - for Dwall	24	20-Jan-15	16-Feb-15	0%
Notify the results and issue Loading Permit for Local & Cross Boundary Crossing - for Dwall	24	17-Feb-15	19-Mar-15	0%
General Design Submissions				
(G6) IFA for Tunnel GBP				
SO's Review	35	29-Apr-14	02-Jun-14	100%
SO Approval with Condition Received	0		03-Jun-14	100%
PAYMENT MILESTONE				
Design and Design Checking of the Works				
MS 2.5 Submit AIP for seawall modification works at Southern Landfall	0		31-Jan-17	100%
MS 2.32 Approve DDA for Approach Ramp Structures to Cut-and-cover Tunnels by the Supervising Officer	0		30-Apr-15	100%
MS 2.44 Approve DDA for South Ventilation Building by the Supervising Officer	0		30-Jun-15	0%
MS 2.48 Approve DDA for North Ventilation Building by the Supervising Officer	0		31-Jan-15	100%
MS 2.52 Approve DDA for Facilities Provision for TCSS by the Supervising Officer	0		28-Feb-15	0%
MS 2.56 Approve DDA for Drainage, Sewerage, Waterworks and Utilities at Southern Landfall by the Supervi	0		30-Apr-15	100%
MS 2.60 Approve DDA for Drainage, Sewerage, Waterworks and Utilities at Northern Landfall by the Supervis	0		31-Dec-14	0%
MS 2.69 Submit draft Operation and Maintenance Manual for all Tunnels and Cross Passgaes	0		29-Feb-16	0%
MS 2.70 Accept Operation and Maintenance Manual for all Tunnels and Cross Passgaes by the Supervising	0		30-Jun-16	0%
MS 2.71 Submit draft Operation and Maintenance Manual for all works except Tunnels and Cross Passgaes	0		29-Feb-16	0%
MS 2.72 Accept Operation and Maintenance Manual for all works except Tunnels and Cross Passgaes by the	0		30-Jun-16	0%
Tunnel Boring Machine (TBM) and Back-up Equipment for TBM Tunnel				
MS 3.1.6 Removal of TBM for Southbound Tunnel from Site after the completion of TBM Tunnel	0		31-Jan-17	0%
MS 3.1.12 Removal of TBM for Northbound Tunnel from Site after the completion of TBM Tunnel	0		28-Feb-17	0%
MS 3.1.25 Demolition of Slurry Treatment Plant on completion	0		28-Feb-17	0%
MS 3.1.26 Complete the whole of the activities under this Cost Centre Part to the satisfaction of the Supervisin	0		31-Dec-15	0%
TBM Tunnel				
MS 3.3.4 Complete walls of retrieval shaft	0		30-Jan-16	0%
MS 3.3.5 Complete excavation to formation level for retrieval shaft and complete casting of base slab	0		30-Nov-16	0%
MS 3.3.6 Complete all necessary works of retrieval shaft to facilitate retrieval of TBM	0		30-Nov-16	0%
MS 3.3.33 Completion of excavation, support and permanent lining for 30% of the total length (measured on	0		31-May-16	100%
MS 3.3.34 Completion of excavation, support and permanent lining for 32.5% of the total length (measured or	0		30-Jun-16	100%
MS 3.3.35 Completion of excavation, support and permanent lining for 35% of the total length (measured on	0		30-Jun-16	100%
MS 3.3.36 Completion of excavation, support and permanent lining for 37.5% of the total length (measured or	0		30-Jun-16	100%
MS 3.3.37 Completion of excavation, support and permanent lining for 40% of the total length (measured on	0		30-Jul-16	100%
MS 3.3.38 Completion of excavation, support and permanent lining for 42.5% of the total length (measured or	0		30-Jul-16	100%
MS 3.3.39 Completion of excavation, support and permanent lining for 45% of the total length (measured on	0		30-Jul-16	100%
MS 3.3.40 Completion of excavation, support and permanent lining for 47.5% of the total length (measured or	0		30-Jul-16	100%
MS 3.3.41 Completion of excavation, support and permanent lining for 50% of the total length (measured on	0		31-Aug-16	100%
MS 3.3.42 Completion of excavation, support and permanent lining for 52.5% of the total length (measured or	0		31-Aug-16	100%
MS 3.3.43 Completion of excavation, support and permanent lining for 55% of the total length (measured on	0		31-Aug-16	0%
MS 3.3.44 Completion of excavation, support and permanent lining for 57.5% of the total length (measured or	0		31-Aug-16	0%
MS 3.3.45 Completion of excavation, support and permanent lining for 60% of the total length (measured on	0		31-Aug-16	0%
MS 3.3.46 Completion of excavation, support and permanent lining for 62.5% of the total length (measured or	0		30-Sep-16	0%
MS 3.3.47 Completion of excavation, support and permanent lining for 65% of the total length (measured on	0		30-Sep-16	0%
MS 3.3.48 Completion of excavation, support and permanent lining for 67.5% of the total length (measured or	0		30-Sep-16	0%
MS 3.3.49 Completion of excavation, support and permanent lining for 70% of the total length (measured on	0		30-Sep-16	0%
MS 3.3.50 Completion of excavation, support and permanent lining for 72.5% of the total length (measured or	0		31-Oct-16	0%
MS 3.3.51 Completion of excavation, support and permanent lining for 75% of the total length (measured on	0		31-Oct-16	0%
MS 3.3.52 Completion of excavation, support and permanent lining for 77.5% of the total length (measured or	0		31-Oct-16	0%
MS 3.3.53 Completion of excavation, support and permanent lining for 80% of the total length (measured on	0		31-Oct-16	0%
MS 3.3.54 Completion of excavation, support and permanent lining for 82.5% of the total length (measured or	0		30-Nov-16	0%
MS 3.3.55 Completion of excavation, support and permanent lining for 85% of the total length (measured on	0		30-Nov-16	0%
MS 3.3.56 Completion of excavation, support and permanent lining for 87.5% of the total length (measured or	0		30-Nov-16	0%
MS 3.3.57 Completion of excavation, support and permanent lining for 90% of the total length (measured on	0		30-Nov-16	0%
MS 3.3.58 Completion of excavation, support and permanent lining for 92.5% of the total length (measured or	0		30-Nov-16	0%
MS 3.3.59 Completion of excavation, support and permanent lining for 95% of the total length (measured on	0		31-Dec-16	0%
MS 3.3.60 Completion of excavation, support and permanent lining for 97.5% of the total length (measured or	0		31-Dec-16	0%
MS 3.3.61 Completion of excavation, support and permanent lining for 100% of the total length (measured or	0		31-Dec-16	0%
MS 3.3.96 Completion of excavation, support and permanent lining for 50% of the total length (measured on	0		30-Jul-16	100%
MS 3.3.97 Completion of excavation, support and permanent lining for 52.5% of the total length (measured or	0		30-Jul-16	100%
MS 3.3.98 Completion of excavation, support and permanent lining for 55% of the total length (measured on	0		30-Jul-16	100%
MS 3.3.99 Completion of excavation, support and permanent lining for 57.5% of the total length (measured or	0		31-Aug-16	100%
MS 3.3.100 Completion of excavation, support and permanent lining for 60% of the total length (measured or	0		31-Aug-16	100%
MS 3.3.101 Completion of excavation, support and permanent lining for 62.5% of the total length (measured	0		31-Aug-16	100%
MS 3.3.102 Completion of excavation, support and permanent lining for 65% of the total length (measured or	0		31-Aug-16	100%
MS 3.3.103 Completion of excavation, support and permanent lining for 67.5% of the total length (measured	0		31-Aug-16	100%



Project ID: TMCLK DWPF 16W25

Data Date: 01-Jan-17

Planned Bar
Planned Bar - Critical
Planned Milestone
Progress bar
Progress Milestone

TMCLK - Northern Connection Sub-Sea Tunnel Section

Detailed Works Programme (Rev. F)

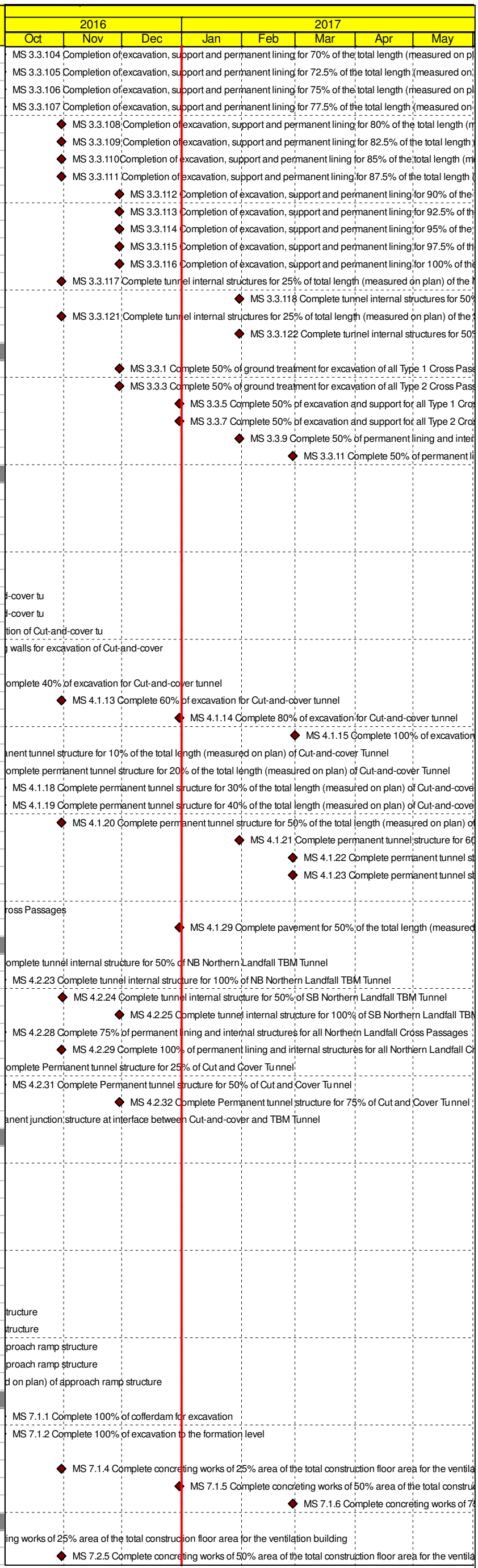
Three Months Rolling Programme

Progress as of 01-Jan-17

Dragages - Bouygues Joint Venture 寶嘉 - 布依格聯營

Date	Revision	Checked	Approved
12-Feb-14	TMCLK/DBJGEN/PRG/98507	WYu	SPo
08-Apr-14	TMCLK/DBJGEN/PRG/98507 Rev.B	SPa	WYu
28-Aug-14	TMCLK/DBJGEN/PRG/98507 Rev.C	CLa	WYu
30-Oct-15	TMCLK/DBJGEN/PRG/98507 Rev.F	WYu	

Activity Name	Orig Dur	DWPF Start	DWPF Finish	% Comp
MS 3.3.104 Completion of excavation, support and permanent lining for 70% of the total length (measured or	0		30-Sep-16	0%
MS 3.3.105 Completion of excavation, support and permanent lining for 72.5% of the total length (measured	0		30-Sep-16	0%
MS 3.3.106 Completion of excavation, support and permanent lining for 75% of the total length (measured or	0		30-Sep-16	0%
MS 3.3.107 Completion of excavation, support and permanent lining for 77.5% of the total length (measured	0		30-Sep-16	0%
MS 3.3.108 Completion of excavation, support and permanent lining for 80% of the total length (measured or	0		31-Oct-16	0%
MS 3.3.109 Completion of excavation, support and permanent lining for 82.5% of the total length (measured	0		31-Oct-16	0%
MS 3.3.110Completion of excavation, support and permanent lining for 85% of the total length (measured on	0		31-Oct-16	0%
MS 3.3.111 Completion of excavation, support and permanent lining for 87.5% of the total length (measured	0		31-Oct-16	0%
MS 3.3.112 Completion of excavation, support and permanent lining for 90% of the total length (measured on	0		30-Nov-16	0%
MS 3.3.113 Completion of excavation, support and permanent lining for 92.5% of the total length (measured	0		30-Nov-16	0%
MS 3.3.114 Completion of excavation, support and permanent lining for 95% of the total length (measured on	0		30-Nov-16	0%
MS 3.3.115 Completion of excavation, support and permanent lining for 97.5% of the total length (measured	0		30-Nov-16	0%
MS 3.3.116 Completion of excavation, support and permanent lining for 100% of the total length (measured o	0		30-Nov-16	0%
MS 3.3.117 Complete tunnel internal structures for 25% of total length (measured on plan) of the Northbound	0		31-Oct-16	0%
MS 3.3.118 Complete tunnel internal structures for 50% of total length (measured on plan) of the Northbound	0		31-Jan-17	0%
MS 3.3.121 Complete tunnel internal structures for 25% of total length (measured on plan) of the Southbounc	0		31-Oct-16	0%
MS 3.3.122 Complete tunnel internal structures for 50% of total length (measured on plan) of the Southbounc	0		31-Jan-17	0%
Cross Passages for TBM Tunnel				
MS 3.3.1 Complete 50% of ground treatment for excavation of all Type 1 Cross Passages(Percentage to be c	0		30-Nov-16	0%
MS 3.3.3 Complete 50% of ground treatment for excavation of all Type 2 Cross Passages(Percentage to be c	0		30-Nov-16	0%
MS 3.3.5 Complete 50% of excavation and support for all Type 1 Cross Passages(Percentage to be certified f	0		31-Dec-16	0%
MS 3.3.7 Complete 50% of excavation and support for all Type 2 Cross Passages(Percentage to be certified f	0		31-Dec-16	0%
MS 3.3.9 Complete 50% of permanent lining and internal structures for all Type 1 Cross Passages(Percentag	0		31-Jan-17	0%
MS 3.3.11 Complete 50% of permanent lining and internal structures for all Type 2 Cross Passages(Percenta	0		28-Feb-17	0%
Cut-and-cover Tunnels at Southern Landfalls				
MS 4.1.1 Complete 10% of total length (measured on plan) of temporary retaining walls for excavation of Cut-	0		31-Oct-15	0%
MS 4.1.2 Complete 20% of total length (measured on plan)of temporary retaining walls for excavation of Cut-	0		31-Oct-15	0%
MS 4.1.3 Complete 30% of total length (measured on plan) of temporary retaining walls for excavation of Cut-	0		30-Nov-15	0%
MS 4.1.4 Complete 40% of total length (measured on plan) of temporary retaining walls for excavation of Cut-	0		30-Nov-15	0%
MS 4.1.5 Complete 50% of total length (measured on plan) of temporary retaining walls for excavation of Cut-	0		31-Dec-15	0%
MS 4.1.6 Complete 60% of total length (measured on plan) of temporary retaining walls for excavation of Cut-	0		31-Dec-15	0%
MS 4.1.7 Complete 70% of total length (measured on plan) of temporary retaining walls for excavation of Cut-	0		30-Jan-16	0%
MS 4.1.8 Complete 80% of total length (measured on plan) of temporary retaining walls for excavation of Cut-	0		30-Jan-16	0%
MS 4.1.9 Complete 90% of total length (measured on plan) of temporary retaining walls for excavation of Cut-	0		29-Feb-16	0%
MS 4.1.10 Complete 100% of total length (measured on plan) of temporary retaining walls for excavation of C	0		31-Mar-16	0%
MS 4.1.11	0		30-Jun-16	0%
MS 4.1.12 Complete 40% of excavation for Cut-and-cover tunnel	0		31-Aug-16	0%
MS 4.1.13 Complete 60% of excavation for Cut-and-cover tunnel	0		31-Oct-16	0%
MS 4.1.14 Complete 80% of excavation for Cut-and-cover tunnel	0		31-Dec-16	0%
MS 4.1.15 Complete 100% of excavation for Cut-and-cover tunnel	0		28-Feb-17	0%
MS 4.1.16 Complete permanent tunnel structure for 10% of the total length (measured on plan) of Cut-and-cc	0		30-Jul-16	0%
MS 4.1.17 Complete permanent tunnel structure for 20% of the total length (measured on plan) of Cut-and-cc	0		31-Aug-16	0%
MS 4.1.18 Complete permanent tunnel structure for 30% of the total length (measured on plan) of Cut-and-cc	0		30-Sep-16	0%
MS 4.1.19 Complete permanent tunnel structure for 40% of the total length (measured on plan) of Cut-and-cc	0		30-Sep-16	0%
MS 4.1.20 Complete permanent tunnel structure for 50% of the total length (measured on plan) of Cut-and-cc	0		31-Oct-16	0%
MS 4.1.21 Complete permanent tunnel structure for 60% of the total length (measured on plan) of Cut-and-cc	0		31-Jan-17	0%
MS 4.1.22 Complete permanent tunnel structure for 70% of the total length (measured on plan) of Cut-and-cc	0		28-Feb-17	0%
MS 4.1.23 Complete permanent tunnel structure for 80% of the total length (measured on plan) of Cut-and-cc	0		28-Feb-17	0%
MS 4.1.26 Complete excavation for 50% of total length (measured on plan) of all Cross Passages	0		31-Dec-15	0%
MS 4.1.27 Complete excavation for 100% of total length (measured on plan) of all Cross Passages	0		31-Mar-16	0%
MS 4.1.29 Complete pavement for 50% of the total length (measured on plan) of Cut-and-cover Tunnel	0		31-Dec-16	0%
Cut-and-cover Tunnel at Northern Landfall				
MS 4.2.22 Complete tunnel internal structure for 50% of NB Northern Landfall TBM Tunnel	0		31-Aug-16	0%
MS 4.2.23 Complete tunnel internal structure for 100% of NB Northern Landfall TBM Tunnel	0		30-Sep-16	0%
MS 4.2.24 Complete tunnel internal structure for 50% of SB Northern Landfall TBM Tunnel	0		31-Oct-16	0%
MS 4.2.25 Complete tunnel internal structure for 100% of SB Northern Landfall TBM Tunnel	0		30-Nov-16	0%
MS 4.2.28 Complete 75% of permanent lining and internal structures for all Northern Landfall Cross Passage	0		30-Sep-16	100%
MS 4.2.29 Complete 100% of permanent lining and internal structures for all Northern Landfall Cross Passag	0		31-Oct-16	0%
MS 4.2.30 Complete Permanent tunnel structure for 25% of Cut and Cover Tunnel	0		31-Aug-16	0%
MS 4.2.31 Complete Permanent tunnel structure for 50% of Cut and Cover Tunnel	0		30-Sep-16	0%
MS 4.2.32 Complete Permanent tunnel structure for 75% of Cut and Cover Tunnel	0		30-Nov-16	0%
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel	0		30-Jul-16	0%
Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall				
MS 5.1.2 Complete 40% of excavation for approach ramp structures	0		31-Mar-16	0%
MS 5.1.3 Complete 60% of excavation for approach ramp structures	0		31-Mar-16	0%
MS 5.1.4 Complete 80% of excavation for approach ramp structures	0		30-Apr-16	0%
MS 5.1.5 Complete 100% of excavation for approach ramp structures	0		30-Apr-16	0%
MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp	0		31-Oct-15	0%
MS 5.1.7 Complete retaining wall foundation for 20% of the total length (measured on plan) of approach ramp	0		30-Nov-15	0%
MS 5.1.8 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ramp	0		30-Nov-15	0%
MS 5.1.9 Complete retaining wall foundation for 40% of the total length (measured on plan) of approach ramp	0		31-Dec-15	0%
MS 5.1.10 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ran	0		31-Dec-15	0%
MS 5.1.11 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ran	0		30-Jan-16	0%
MS 5.1.12 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ran	0		30-Jan-16	0%
MS 5.1.13 Complete retaining wall foundation for 80% of the total length (measured on plan) of approach ran	0		29-Feb-16	0%
MS 5.1.14 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ran	0		29-Feb-16	0%
MS 5.1.15 Complete retaining wall foundation for 100% of the total length (measured on plan) of approach ra	0		31-Mar-16	0%
South Ventilation Buildings				
MS 7.1.1 Complete 100% of cofferdam for excavation	0		30-Sep-16	0%
MS 7.1.2 Complete 100% of excavation to the formation level	0		30-Sep-16	0%
MS 7.1.3 Complete 100% of foundation for the ventilation building	0		30-Apr-16	0%
MS 7.1.4 Complete concreting works of 25% area of the total construction floor area for the ventilation building	0		31-Oct-16	0%
MS 7.1.5 Complete concreting works of 50% area of the total construction floor area for the ventilation building	0		31-Dec-16	0%
MS 7.1.6 Complete concreting works of 75% area of the total construction floor area for the ventilation building	0		28-Feb-17	0%
North Ventilation Buildings				
MS 7.2.4 Complete concreting works of 25% area of the total construction floor area for the ventilation building	0		30-Jul-16	0%
MS 7.2.5 Complete concreting works of 50% area of the total construction floor area for the ventilation building	0		31-Oct-16	0%



Project ID: TMCLK DWPF 16W25

Data Date: 01-Jan-17

Planned Bar
Planned Bar - Critical
Planned Milestone
Progress bar
Progress Milestone

TMCLK - Northern Connection Sub-Sea Tunnel Section

Detailed Works Programme (Rev. F)

Three Months Rolling Programme

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Dragages - Bouygues Joint Venture 寶嘉 - 布依格聯營

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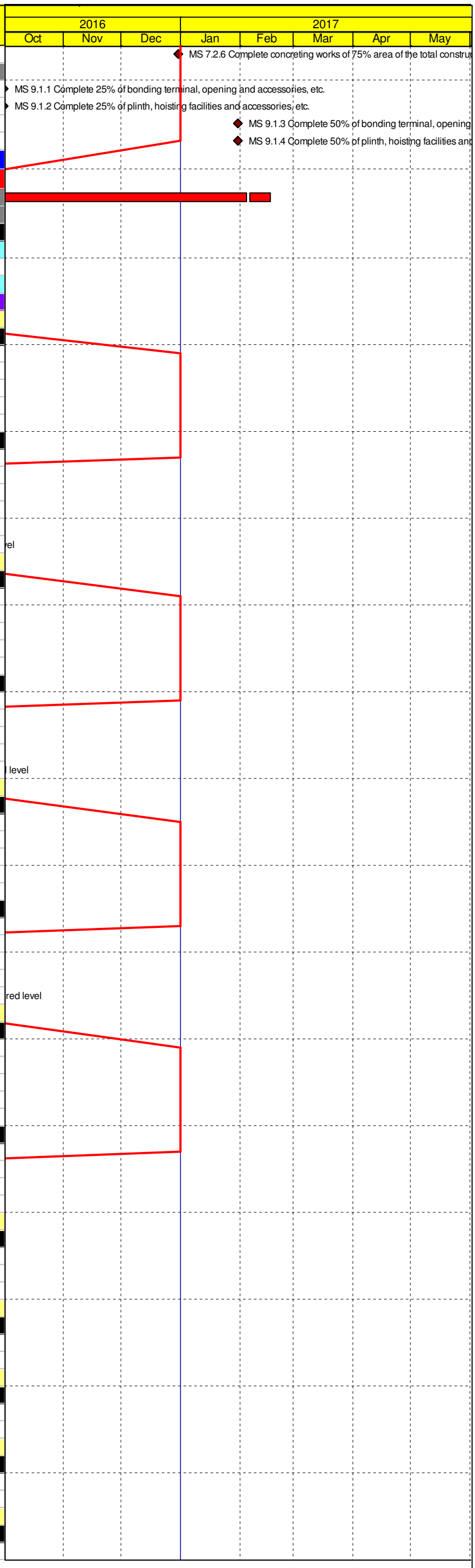
30-Oct-15	TMCLK/DBJGEN/PRG/98507 Rev.F	WYu	

Activity Name	Orig Dur	DWPF Start	DWPF Finish	% Comp
MS 7.2.6 Complete concreting works of 75% area of the total construction floor area for the ventilation building	0		31-Dec-16	0%
Facilities Provision for E&M Works for TBM Tunnel, Cut & Cover Tunnels and Cross Passages				
MS 9.1.1 Complete 25% of bonding terminal, opening and accessories, etc.	0		30-Sep-16	0%
MS 9.1.2 Complete 25% of plinth, hoisting facilities and accessories, etc.	0		30-Sep-16	0%
MS 9.1.3 Complete 50% of bonding terminal, opening and accessories, etc.	0		31-Jan-17	0%
MS 9.1.4 Complete 50% of plinth, hoisting facilities and accessories, etc.	0		31-Jan-17	0%
Construction				
Northern Landfall				
North Reclamation (Phase 1)				
Box Culvert Extension				
Construction				
Ch000-010 Culvert Outfall				
Removal of temporary bulk head	18	25-Nov-15	15-Dec-15	0%
Ch150-250 Marine Section				
ELS & Structure				
Pile A41/A39 CJ to Pile A39/A37 CJ				
ELS				
Excavation to 0.5m below strut S2	4	05-Feb-16	16-Feb-16	100%
Installation of strut S2	6	17-Feb-16	23-Feb-16	100%
Excavation to 0.5m below strut S1	5	24-Feb-16	29-Feb-16	100%
Installation of strut S1	5	01-Mar-16	05-Mar-16	100%
Excavation to FEL	5	07-Mar-16	11-Mar-16	100%
Box Culvert Structure				
Pile cap construction	10	18-Mar-16	01-Apr-16	100%
Base slab construction including kicker	6	15-Apr-16	21-Apr-16	0%
Removal of strut S1	4	22-Apr-16	26-Apr-16	0%
Sliding formworks 1st assembly	18	27-Apr-16	19-May-16	0%
Walls & top slab construction	6	20-May-16	26-May-16	0%
Removal of strut S2 & Backfilling up to required level	6	03-Jun-16	10-Jun-16	0%
Pile A39/A37 CJ to Pile A37/A35 CJ				
ELS				
Excavation to 0.5m below strut S2	4	17-Feb-16	20-Feb-16	100%
Installation of strut S2	6	22-Feb-16	27-Feb-16	100%
Excavation to 0.5m below strut S1	5	01-Mar-16	05-Mar-16	100%
Installation of strut S1	5	07-Mar-16	11-Mar-16	100%
Excavation to FEL	5	12-Mar-16	17-Mar-16	100%
Box Culvert Structure				
Pile cap construction	10	02-Apr-16	14-Apr-16	100%
Base slab construction including kicker	6	22-Apr-16	28-Apr-16	0%
Removal of strut S1	4	29-Apr-16	04-May-16	0%
Walls & top slab construction	6	27-May-16	02-Jun-16	0%
Removal of strut S2 & Backfilling up to required level	6	11-Jun-16	17-Jun-16	0%
Pile A37/A35 CJ to Pile A35/A33 CJ				
ELS				
Excavation to 0.5m below strut S2	4	22-Feb-16	25-Feb-16	100%
Installation of strut S2	6	26-Feb-16	03-Mar-16	100%
Excavation to 0.5m below strut S1	5	07-Mar-16	11-Mar-16	100%
Installation of strut S1	5	12-Mar-16	17-Mar-16	100%
Excavation to FEL	5	18-Mar-16	23-Mar-16	100%
Box Culvert Structure				
Pile cap construction	10	15-Apr-16	26-Apr-16	100%
Base slab construction including kicker	6	29-Apr-16	06-May-16	0%
Removal of strut S1	4	07-May-16	11-May-16	0%
Walls & top slab construction	6	03-Jun-16	10-Jun-16	0%
Removal of strut S2 & Backfilling up to required level	6	18-Jun-16	24-Jun-16	0%
Pile A35/A33 CJ to Pile A33/P117 CJ				
ELS				
Excavation to 0.5m below strut S2	4	26-Feb-16	01-Mar-16	100%
Installation of strut S2	6	02-Mar-16	08-Mar-16	100%
Excavation to 0.5m below strut S1	5	12-Mar-16	17-Mar-16	100%
Installation of strut S1	5	18-Mar-16	23-Mar-16	100%
Excavation to FEL	5	24-Mar-16	01-Apr-16	100%
Box Culvert Structure				
Pile cap construction	10	27-Apr-16	09-May-16	100%
Base slab construction including kicker	6	10-May-16	17-May-16	0%
Removal of strut S1	4	18-May-16	21-May-16	0%
Walls & top slab construction	6	11-Jun-16	17-Jun-16	0%
Pile A33/P117 CJ to Pile P113/P109 CJ				
Box Culvert Structure				
Base slab construction including kicker	6	18-May-16	24-May-16	0%
Removal of strut S1	4	25-May-16	28-May-16	0%
Walls & top slab construction	6	18-Jun-16	24-Jun-16	0%
Pile P113/P109 CJ to Pile P105/P101 CJ				
Box Culvert Structure				
Base slab construction including kicker	6	25-May-16	31-May-16	50%
Removal of strut S1	4	01-Jun-16	04-Jun-16	0%
Pile P105/P101 CJ to Pile P97/P93 CJ				
Box Culvert Structure				
Base slab construction including kicker	6	01-Jun-16	07-Jun-16	0%
Removal of strut S1	4	08-Jun-16	13-Jun-16	0%
Pile P97/P93 CJ to Pile P89/P85 CJ				
Box Culvert Structure				
Base slab construction including kicker	6	08-Jun-16	15-Jun-16	50%
Removal of strut S1	4	16-Jun-16	20-Jun-16	0%
Pile P89/P85 CJ to Pile P81/P77 CJ				
Box Culvert Structure				
Base slab construction including kicker	6	16-Jun-16	22-Jun-16	0%



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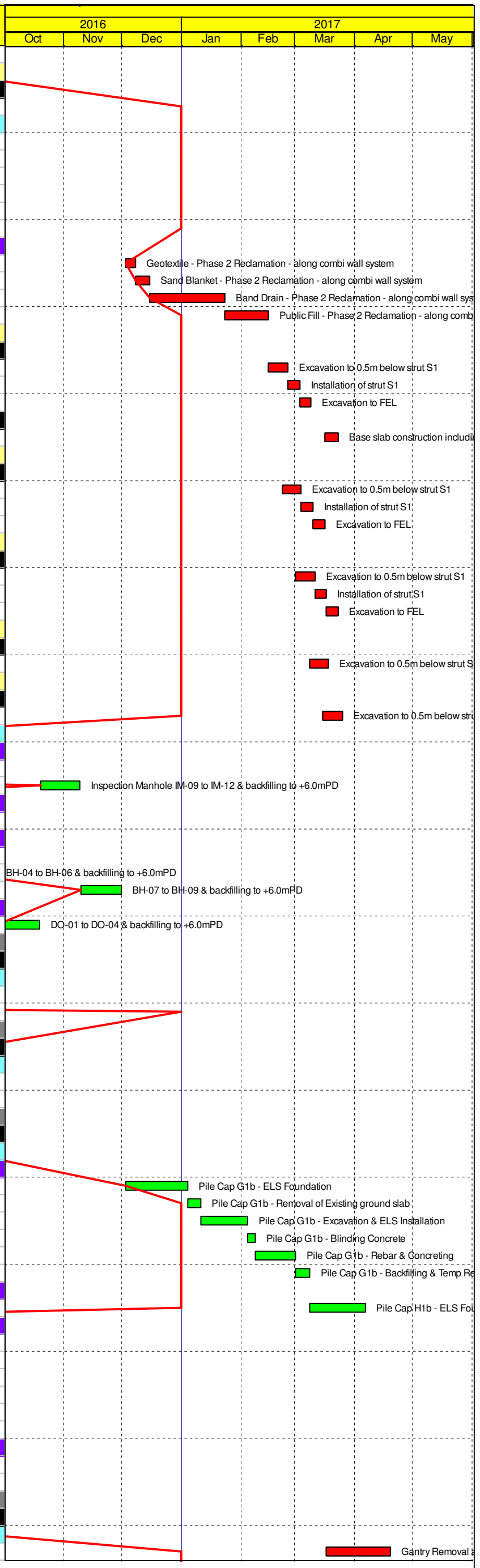
30-Oct-15	TMCLK/DBJGEN/PRG/98507 Rev.F	WYu	

Activity Name	Orig Dur	DWPF Start	DWPF Finish	% Comp
Removal of strut S1	4	23-Jun-16	27-Jun-16	0%
Pile P81/P77 CJ to Pile P73/P69 CJ				
Box Culvert Structure				
Base slab construction including kicker	6	23-Jun-16	29-Jun-16	100%
Ch250-380 Marine Section				
Installation of Dewatering & Observation Well Ch 250-380	23	04-Nov-15	30-Nov-15	100%
1st Pumping Test & Analysis	17	01-Dec-15	19-Dec-15	100%
Toe Grouting	106	21-Dec-15	07-May-16	100%
2nd Pumping test & Analysis	25	08-Apr-16	07-May-16	100%
Remaining toe grouting Ch250-380	51	09-May-16	09-Jul-16	100%
New Activity	0			0%
ELS & Structure				
Geotextile - Phase 2 Reclamation - along combi wall system	4	03-Dec-16	08-Dec-16	0%
Sand Blanket - Phase 2 Reclamation - along combi wall system	6	08-Dec-16	15-Dec-16	0%
Band Drain - Phase 2 Reclamation - along combi wall system	30	15-Dec-16	23-Jan-17	0%
Public Fill - Phase 2 Reclamation - along combi wall system	14	23-Jan-17	15-Feb-17	0%
Pile P73/P69 CJ to Pile P65/P61 CJ				
ELS				
Excavation to 0.5m below strut S1	9	15-Feb-17	25-Feb-17	0%
Installation of strut S1	5	25-Feb-17	03-Mar-17	0%
Excavation to FEL	5	03-Mar-17	09-Mar-17	0%
Box Culvert Structure				
Base slab construction including kicker	6	16-Mar-17	23-Mar-17	0%
Pile P65/P61 CJ to Pile P57/P53 CJ				
ELS				
Excavation to 0.5m below strut S1	9	22-Feb-17	04-Mar-17	0%
Installation of strut S1	5	04-Mar-17	10-Mar-17	0%
Excavation to FEL	5	10-Mar-17	16-Mar-17	0%
Pile P57/P53 CJ to Pile P49/P45 CJ				
ELS				
Excavation to 0.5m below strut S1	9	01-Mar-17	11-Mar-17	0%
Installation of strut S1	5	11-Mar-17	17-Mar-17	0%
Excavation to FEL	5	17-Mar-17	23-Mar-17	0%
Pile P49/P45 CJ to Pile P41/P37 CJ				
ELS				
Excavation to 0.5m below strut S1	9	08-Mar-17	18-Mar-17	0%
Pile P41/P37 CJ to Pile P33/P29 CJ				
ELS				
Excavation to 0.5m below strut S1	9	15-Mar-17	25-Mar-17	0%
Miscellaneous works				
Inspection Manhole (IM)				
Inspection Manhole IM-01 to IM-04 & backfilling to +6.0mPD	12	24-Sep-15	09-Oct-15	0%
Inspection Manhole IM-09 to IM-12 & backfilling to +6.0mPD	18	20-Oct-16	09-Nov-16	0%
Stop Log Opening (SLO)				
SLO-01 to SLO-05 & backfilling to +6.0mPD	24	10-Oct-15	07-Nov-15	0%
Balance Hole (BH)				
BH-01 to BH-03 & backfilling to +6.0mPD	18	03-Sep-15	23-Sep-15	0%
BH-04 to BH-06 & backfilling to +6.0mPD	18	05-Sep-16	26-Sep-16	0%
BH-07 to BH-09 & backfilling to +6.0mPD	18	10-Nov-16	30-Nov-16	0%
Desilting Opening (DO)				
DO-01 to DO-04 & backfilling to +6.0mPD	18	27-Sep-16	19-Oct-16	0%
North Launching Shaft				
Design Submission				
(C1) DDA for North C&C Tunnel Permanent Structure				
SO's Review	35	24-May-14	27-Jun-14	90%
SO Approval with Condition Received	0		27-Jun-14	0%
North Ventilation Shaft				
Construction				
North Ventilation Shaft Structure				
NVS - ML03 Tunnel Structure	47	19-May-16	15-Jul-16	30%
NVS - ML02 Tunnel Structure	44	05-Apr-16	27-May-16	46%
TMCLK VO-008 - Construction of Viaduct Foundations at Portion N6A				
Viaduct Pile Cap				
Construction				
Pier G1b				
Pile Cap G1b - ELS Foundation	24	03-Dec-16	04-Jan-17	0%
Pile Cap G1b - Removal of Existing ground slab	6	04-Jan-17	11-Jan-17	0%
Pile Cap G1b - Excavation & ELS Installation	15	11-Jan-17	04-Feb-17	0%
Pile Cap G1b - Blinding Concrete	3	04-Feb-17	08-Feb-17	0%
Pile Cap G1b - Rebar & Concreting	18	08-Feb-17	01-Mar-17	0%
Pile Cap G1b - Backfilling & Temp Reinstatement	6	01-Mar-17	08-Mar-17	0%
Pier H1b				
Pile Cap H1b - ELS Foundation	24	08-Mar-17	06-Apr-17	0%
Pier G1c				
Pile Cap G1c - Preparation for ELS	6	24-Oct-14	30-Oct-14	0%
Pile Cap G1c - Removal of Existing ground slab	6	31-Oct-14	06-Nov-14	0%
Pile Cap G1c - Excavation & ELS Installation	12	07-Nov-14	20-Nov-14	0%
Pile Cap G1c - Blinding Concrete	3	21-Nov-14	24-Nov-14	0%
Pile Cap G1c - Rebar & Concreting	18	25-Nov-14	15-Dec-14	0%
Pile Cap G1c - Backfilling & Temp Reinstatement	6	16-Dec-14	22-Dec-14	0%
Pier H1c				
Pile Cap H1c - Preparation for ELS	6	02-Nov-15	07-Nov-15	0%
Pile Cap H1c - Removal of Existing ground slab	6	09-Nov-15	14-Nov-15	0%
North Approach TBM Tunnelling & Cross Passage				
Construction				
Northern Landfall Surface Setup for TBM operation				
Gantry Removal at North TBM Launching Shaft	24	17-Mar-17	19-Apr-17	0%



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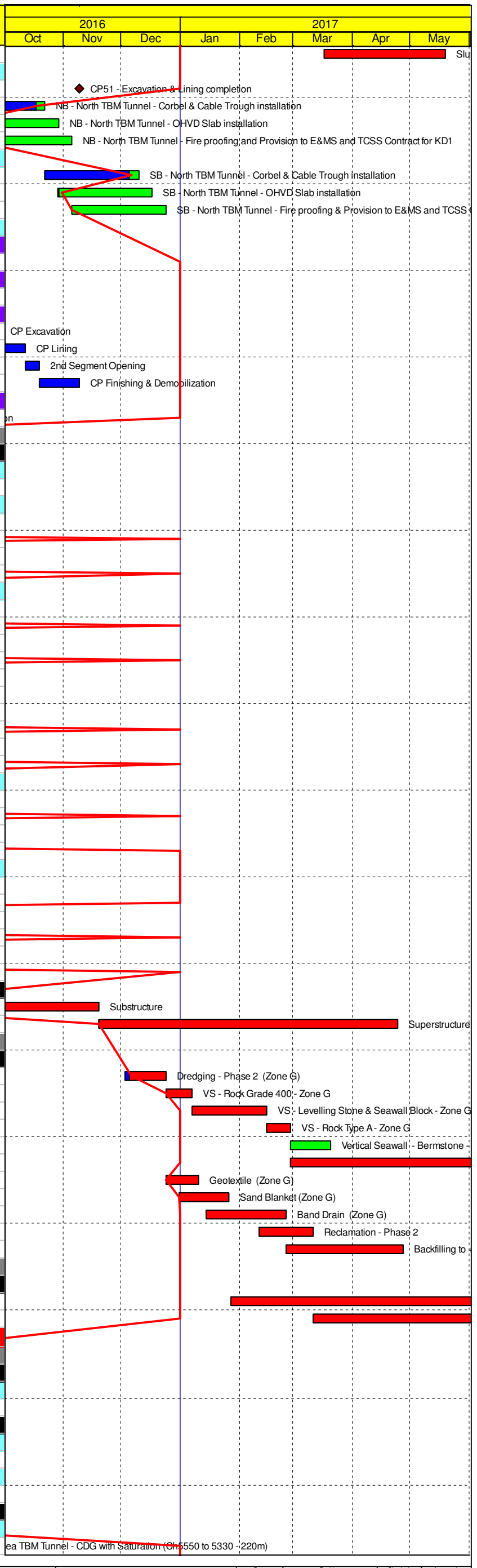
Activity Name	Orig Dur	DWPF Start	DWPF Finish	% Comp
Slurry Treatment Plant De commissioning & Removal	48	17-Mar-17	19-May-17	0%
North Approach Tunnel Internal Structure - NB				
CP51 - Excavation & Lining completion	0		09-Nov-16	0%
NB - North TBM Tunnel - Corbel & Cable Trough installation	42	31-Aug-16	22-Oct-16	91%
NB - North TBM Tunnel - OHVD Slab installation	42	07-Sep-16	29-Oct-16	0%
NB - North TBM Tunnel - Fire proofing and Provision to E&MS and TCSS Contract for KD1	42	14-Sep-16	05-Nov-16	0%
North Approach Tunnel Internal Structure - SB				
SB - North TBM Tunnel - Corbel & Cable Trough installation	42	22-Oct-16	10-Dec-16	91%
SB - North TBM Tunnel - OHVD Slab installation	42	29-Oct-16	17-Dec-16	3%
SB - North TBM Tunnel - Fire proofing & Provision to E&MS and TCSS Contract for KD1	42	05-Nov-16	24-Dec-16	0%
North Approach Cross Passage				
CP55 - Traditional Method				
CP Finishing & Demobilization	18	23-May-16	14-Jun-16	100%
CP52 - Pipe Jacking Method				
CP Finishing & Demobilization	21	24-Mar-16	22-Apr-16	100%
CP51 - Traditional Method				
CP Excavation	14	14-Sep-16	28-Sep-16	100%
CP Lining	14	28-Sep-16	12-Oct-16	100%
2nd Segment Opening	7	12-Oct-16	19-Oct-16	100%
CP Finishing & Demobilization	18	19-Oct-16	09-Nov-16	100%
CP50 - Pipe Jacking Method				
CP Finishing & Demobilization	21	27-Jun-16	21-Jul-16	100%
North Ventilation Building				
Design Submission				
(A11) Submissons to Design Advisory Panel of ArchSD				
ArchSD's comment	30	10-Jun-14	09-Jul-14	93%
(I1) DDA for North Vent.Bldgs. GBP & Arch.Submission				
IPs Review	28	21-Aug-14	17-Sep-14	92%
IP's No Objection Received	0		17-Sep-14	0%
SO's Review	35	21-Aug-14	24-Sep-14	94%
SO Approval with Condition Received	0		24-Sep-14	0%
(I1) DDA for North & South Vent.Bldg. ABWF works				
IPs/ SO's Advance Comments/ ICE Comments	28	03-Dec-14	30-Dec-14	88%
Comments Received	0		30-Dec-14	0%
Designer to Reply RtC + Update Submission	21	31-Dec-14	24-Jan-15	0%
Submit Updated DDA to SO/ ICE/ IPs	0	26-Jan-15		0%
ICE Approval & Issue Check Cert	18	26-Jan-15	14-Feb-15	0%
Submit ICE Check Cert to SO	6	16-Feb-15	25-Feb-15	0%
IPs Review	28	26-Jan-15	22-Feb-15	0%
IP's No Objection Received	0		22-Feb-15	0%
SO's Review	35	26-Jan-15	01-Mar-15	0%
SO Approval with Condition Received	0		02-Mar-15	0%
(I2) DDA for North Vent.Bldgs.Structural Design incl.Vent.Connections				
IPs Review	28	24-Dec-14	20-Jan-15	92%
IP's No Objection Received	0		20-Jan-15	0%
SO's Review	35	24-Dec-14	27-Jan-15	92%
SO Approval with Condition Received	0		27-Jan-15	0%
(I3) DDA for North & South Vent.Bldgs. Service and E&M Provision				
ICE Approval & Issue Check Cert	12	15-Jan-15	28-Jan-15	100%
Submit ICE Check Cert to SO	6	29-Jan-15	04-Feb-15	100%
IPs Review	28	15-Jan-15	11-Feb-15	92%
IP's No Objection Received	0		11-Feb-15	0%
SO's Review	35	15-Jan-15	18-Feb-15	91%
SO Approval with Condition Received	0		18-Feb-15	0%
Construction				
Substructure	120	28-Jun-16	19-Nov-16	0%
Superstructure	120	19-Nov-16	24-Apr-17	0%
North Reclamation (Phase 2)				
Construction				
Dredging - Phase 2 (Zone G)	18	03-Dec-16	24-Dec-16	10%
VS - Rock Grade 400 - Zone G	9	24-Dec-16	07-Jan-17	0%
VS - Levelling Stone & Seawall Block - Zone G	27	07-Jan-17	15-Feb-17	0%
VS - Rock Type A - Zone G	10	15-Feb-17	27-Feb-17	0%
Vertical Seawall - Bermstone - (Zone G)	18	27-Feb-17	20-Mar-17	0%
Vertical Seawall - Seawall Coping - (Zone G)	78	27-Feb-17	06-Jun-17	0%
Geotextile (Zone G)	11	24-Dec-16	10-Jan-17	0%
Sand Blanket (Zone G)	21	31-Dec-16	26-Jan-17	0%
Band Drain (Zone G)	30	14-Jan-17	25-Feb-17	0%
Reclamation - Phase 2	24	11-Feb-17	11-Mar-17	0%
Backfilling to +10mPD - Phase 2	48	25-Feb-17	27-Apr-17	0%
North Surface Roadworks, Utility & Drainage works				
Construction				
North Landfall - Underground Sewerage & Drainage - Summary	408	27-Jan-17	26-Jun-18	0%
North Landfall - Underground Sewerage & Drainage - Portion N5	139	11-Mar-17	30-Aug-17	0%
Sub-sea Tunnel				
Sub-sea TBM Tunnelling				
Major Procurement				
Precast Semgnet ID12.40 - Production for Sub-sea TBM Tunnel				
ID12.40 TBM Segment Ring Fabrication - 12 rings per day	300	22-Nov-14	19-Dec-15	89%
Design Submission				
(G1) DDA for TBM Tunnel Lining Structural Design - Sub-sea tunnel				
Sub-sea TBM Tunnel Segment - Fabrication	265	06-Oct-14	26-Aug-15	89%
(G3) DDA for TBM Tunnel Internal Structures (Sub-sea)				
Sub-sea Tunnel - Precast Gallery Fabrication	244	22-Jan-15	18-Nov-15	84%
Construction				
Sub-sea TBM Tunnel - NB ID12.2m - S881				
NB - Sub-sea TBM Tunnel - CDG with Saturation (Ch5550 to 5330 - 220m)	18	14-Aug-16	02-Sep-16	100%



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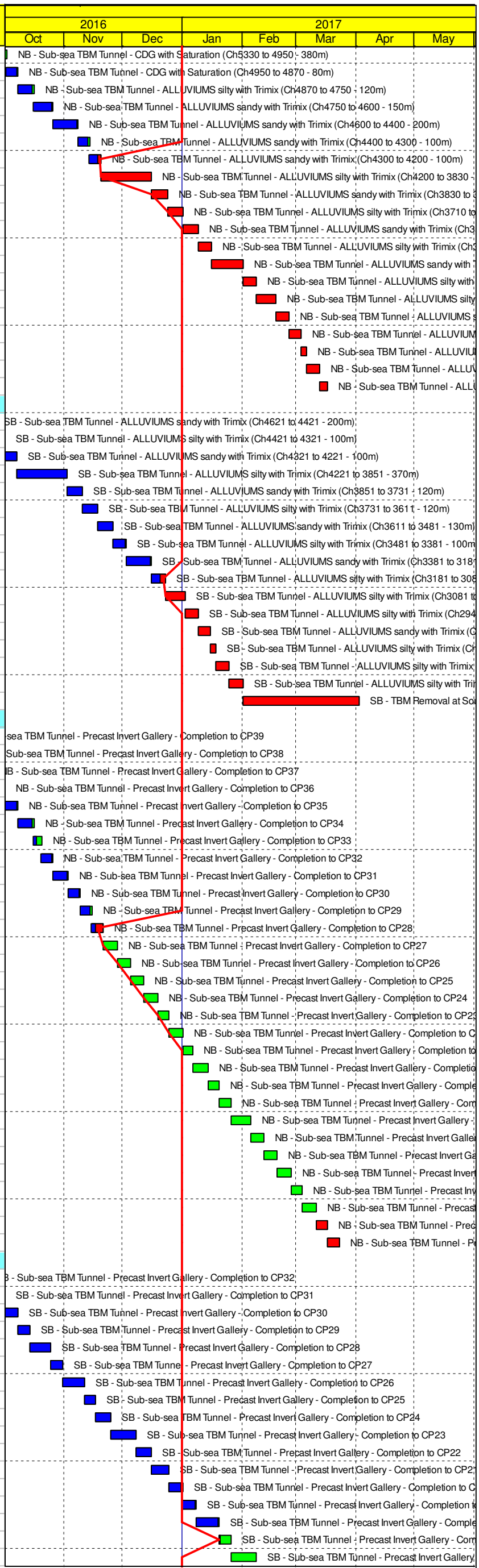
Activity Name	Orig Dur	DWPF Start	DWPF Finish	% Comp
NB - Sub-sea TBM Tunnel - CDG with Saturation (Ch5330 to 4950 - 380m)	30	02-Sep-16	02-Oct-16	100%
NB - Sub-sea TBM Tunnel - CDG with Saturation (Ch4950 to 4870 - 80m)	6	02-Oct-16	08-Oct-16	100%
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch4870 to 4750 - 120m)	8	08-Oct-16	16-Oct-16	100%
NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch4750 to 4600 - 150m)	10	16-Oct-16	26-Oct-16	100%
NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch4600 to 4400 - 200m)	13	26-Oct-16	08-Nov-16	100%
NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch4400 to 4300 - 100m)	6	08-Nov-16	14-Nov-16	100%
NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch4300 to 4200 - 100m)	6	14-Nov-16	20-Nov-16	76%
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch4200 to 3830 - 370m)	26	20-Nov-16	16-Dec-16	0%
NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3830 to 3710 - 120m)	8	16-Dec-16	24-Dec-16	0%
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3710 to 3590 - 120m)	8	24-Dec-16	01-Jan-17	0%
NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3590 to 3460 - 130m)	8	01-Jan-17	09-Jan-17	0%
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3460 to 3360 - 100m)	7	09-Jan-17	16-Jan-17	0%
NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3360 to 3160 - 200m)	13	16-Jan-17	01-Feb-17	0%
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3160 to 3060 - 100m)	7	01-Feb-17	08-Feb-17	0%
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3060 to 2920 - 140m)	10	08-Feb-17	18-Feb-17	0%
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2920 to 2820 - 100m)	7	18-Feb-17	25-Feb-17	0%
NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch2820 to 2720 - 100m)	6	25-Feb-17	03-Mar-17	0%
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2720 to 2673 - 47m)	3	03-Mar-17	06-Mar-17	0%
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2673 to 2574 - 99m)	7	06-Mar-17	13-Mar-17	0%
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2574 to 2512 - 62m)	4	13-Mar-17	17-Mar-17	0%
Sub-sea TBM Tunnel - SB ID12.2m - S882				
SB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch4621 to 4421 - 200m)	13	12-Sep-16	25-Sep-16	100%
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch4421 to 4321 - 100m)	6	25-Sep-16	01-Oct-16	100%
SB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch4321 to 4221 - 100m)	6	01-Oct-16	07-Oct-16	100%
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch4221 to 3851 - 370m)	26	07-Oct-16	02-Nov-16	100%
SB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3851 to 3731 - 120m)	8	02-Nov-16	10-Nov-16	100%
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3731 to 3611 - 120m)	8	10-Nov-16	18-Nov-16	100%
SB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3611 to 3481 - 130m)	8	18-Nov-16	26-Nov-16	100%
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3481 to 3381 - 100m)	7	26-Nov-16	03-Dec-16	100%
SB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3381 to 3181 - 200m)	13	03-Dec-16	16-Dec-16	100%
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3181 to 3081 - 100m)	7	16-Dec-16	23-Dec-16	80%
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3081 to 2941 - 140m)	10	23-Dec-16	02-Jan-17	0%
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2941 to 2841 - 100m)	7	02-Jan-17	09-Jan-17	0%
SB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch2841 to 2741 - 100m)	6	09-Jan-17	15-Jan-17	0%
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2741 to 2694 - 47m)	3	15-Jan-17	18-Jan-17	0%
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2694 to 2595 - 99m)	7	18-Jan-17	25-Jan-17	0%
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2595 to 2533 - 62m)	4	25-Jan-17	01-Feb-17	0%
SB - TBM Removal at Southern Landfall	60	01-Feb-17	02-Apr-17	0%
Sub-sea TBM Tunnel - NB - Precast Invert Gallery				
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP39	3	02-Sep-16	05-Sep-16	100%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP38	8	07-Sep-16	15-Sep-16	100%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP37	8	15-Sep-16	23-Sep-16	100%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP36	8	23-Sep-16	01-Oct-16	100%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP35	7	01-Oct-16	08-Oct-16	100%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP34	8	08-Oct-16	16-Oct-16	100%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP33	4	16-Oct-16	20-Oct-16	100%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP32	6	20-Oct-16	26-Oct-16	100%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP31	8	26-Oct-16	03-Nov-16	100%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP30	6	03-Nov-16	09-Nov-16	100%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP29	6	09-Nov-16	15-Nov-16	100%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP28	6	15-Nov-16	21-Nov-16	50%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP27	7	21-Nov-16	28-Nov-16	0%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP26	7	28-Nov-16	05-Dec-16	0%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP25	7	05-Dec-16	12-Dec-16	0%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP24	7	12-Dec-16	19-Dec-16	0%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP23	6	19-Dec-16	25-Dec-16	0%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP22	7	25-Dec-16	01-Jan-17	0%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP21	5	01-Jan-17	06-Jan-17	0%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP20	8	06-Jan-17	14-Jan-17	0%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP19	6	14-Jan-17	20-Jan-17	0%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP18	6	20-Jan-17	26-Jan-17	0%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP17	7	26-Jan-17	05-Feb-17	0%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP16	7	05-Feb-17	12-Feb-17	0%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP15	7	12-Feb-17	19-Feb-17	0%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP14	7	19-Feb-17	26-Feb-17	0%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP13	6	26-Feb-17	04-Mar-17	0%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP12	7	04-Mar-17	11-Mar-17	0%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP11	6	11-Mar-17	17-Mar-17	0%
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP10	6	17-Mar-17	23-Mar-17	0%
Sub-sea TBM Tunnel - SB - Precast Invert Gallery				
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP32	6	15-Sep-16	21-Sep-16	100%
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP31	10	21-Sep-16	01-Oct-16	100%
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP30	7	01-Oct-16	08-Oct-16	100%
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP29	6	08-Oct-16	14-Oct-16	100%
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP28	11	14-Oct-16	25-Oct-16	100%
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP27	6	25-Oct-16	31-Oct-16	100%
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP26	11	31-Oct-16	11-Nov-16	100%
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP25	6	11-Nov-16	17-Nov-16	100%
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP24	8	17-Nov-16	25-Nov-16	100%
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP23	13	25-Nov-16	08-Dec-16	100%
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP22	8	08-Dec-16	16-Dec-16	100%
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP21	9	16-Dec-16	25-Dec-16	100%
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP20	7	25-Dec-16	01-Jan-17	100%
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP19	7	01-Jan-17	08-Jan-17	100%
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP18	12	08-Jan-17	20-Jan-17	100%
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP17	6	20-Jan-17	26-Jan-17	17%
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP16	10	26-Jan-17	08-Feb-17	0%



Project ID: TMCLK DWPF 16W25

Data Date: 01-Jan-17

Planned Bar
Planned Bar - Critical
Planned Milestone
Progress bar
Progress Milestone

TMCLK - Northern Connection Sub-Sea Tunnel Section

Detailed Works Programme (Rev. F)

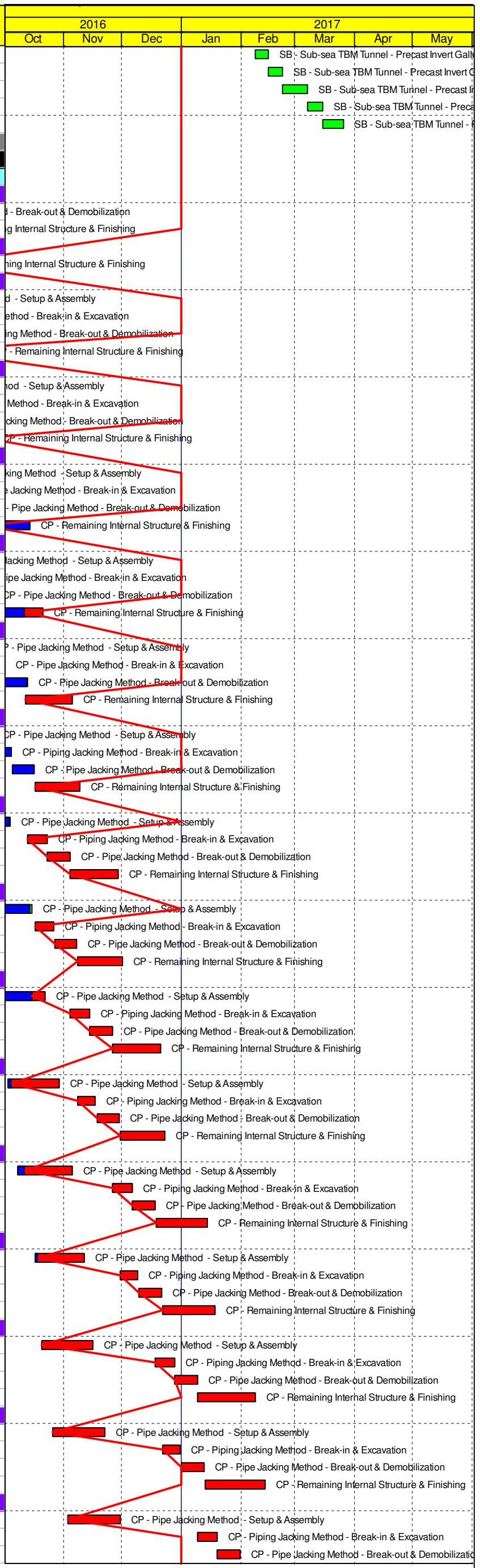
Three Months Rolling Programme

Progress as of 01-Jan-17

Dragages - Bouygues Joint Venture 寶嘉 - 布依格聯營

Date	Revision	Checked	Approved
12-Feb-14	TMCLK/DBJGEN/PRG/98507	WYu	SPo
08-Apr-14	TMCLK/DBJGEN/PRG/98507 Rev.B	SPa	WYu
28-Aug-14	TMCLK/DBJGEN/PRG/98507 Rev.C	CLa	WYu
30-Oct-15	TMCLK/DBJGEN/PRG/98507 Rev.F	WYu	

Activity Name	Orig Dur	DWPF Start	DWPF Finish	% Comp
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP15	7	08-Feb-17	15-Feb-17	0%
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP14	7	15-Feb-17	22-Feb-17	0%
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP13	13	22-Feb-17	07-Mar-17	0%
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP12	8	07-Mar-17	15-Mar-17	0%
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP11	11	15-Mar-17	26-Mar-17	0%
Sub-sea Tunnel Cross Passage & Internal Structure				
Construction				
Sub-sea Tunnel Cross Passage				
CP48 - ML03 - Ch6489				
CP - Pipe Jacking Method - Break-out & Demobilization	11	22-Jul-16	02-Aug-16	100%
CP - Remaining Internal Structure & Finishing	21	02-Aug-16	26-Aug-16	100%
CP47 - ML03 - Ch6390				
CP - Remaining Internal Structure & Finishing	21	08-Aug-16	31-Aug-16	90%
CP46 - ML03 - Ch6292				
CP - Pipe Jacking Method - Setup & Assembly	23	07-Jul-16	03-Aug-16	100%
CP - Pipe Jacking Method - Break-in & Excavation	10	03-Aug-16	13-Aug-16	100%
CP - Pipe Jacking Method - Break-out & Demobilization	12	13-Aug-16	25-Aug-16	100%
CP - Remaining Internal Structure & Finishing	21	25-Aug-16	20-Sep-16	0%
CP45 - ML03 - Ch6193				
CP - Pipe Jacking Method - Setup & Assembly	23	12-Jul-16	08-Aug-16	100%
CP - Pipe Jacking Method - Break-in & Excavation	10	08-Aug-16	18-Aug-16	100%
CP - Pipe Jacking Method - Break-out & Demobilization	12	18-Aug-16	30-Aug-16	100%
CP - Remaining Internal Structure & Finishing	21	30-Aug-16	24-Sep-16	85%
CP44 - ML03 - Ch6095				
CP - Pipe Jacking Method - Setup & Assembly	23	01-Aug-16	27-Aug-16	100%
CP - Pipe Jacking Method - Break-in & Excavation	10	27-Aug-16	06-Sep-16	100%
CP - Pipe Jacking Method - Break-out & Demobilization	12	06-Sep-16	18-Sep-16	100%
CP - Remaining Internal Structure & Finishing	21	19-Sep-16	14-Oct-16	85%
CP43 - ML03 - Ch5996				
CP - Pipe Jacking Method - Setup & Assembly	23	06-Aug-16	02-Sep-16	100%
CP - Pipe Jacking Method - Break-in & Excavation	10	02-Sep-16	12-Sep-16	100%
CP - Pipe Jacking Method - Break-out & Demobilization	12	12-Sep-16	24-Sep-16	100%
CP - Remaining Internal Structure & Finishing	21	24-Sep-16	21-Oct-16	60%
CP42 - ML03 - Ch5898				
CP - Pipe Jacking Method - Setup & Assembly	23	24-Aug-16	21-Sep-16	100%
CP - Pipe Jacking Method - Break-in & Excavation	10	21-Sep-16	01-Oct-16	100%
CP - Pipe Jacking Method - Break-out & Demobilization	12	01-Oct-16	13-Oct-16	100%
CP - Remaining Internal Structure & Finishing	21	12-Oct-16	05-Nov-16	0%
CP41 - ML03 - Ch5800				
CP - Pipe Jacking Method - Setup & Assembly	23	29-Aug-16	24-Sep-16	100%
CP - Piping Jacking Method - Break-in & Excavation	10	25-Sep-16	04-Oct-16	100%
CP - Pipe Jacking Method - Break-out & Demobilization	12	05-Oct-16	16-Oct-16	100%
CP - Remaining Internal Structure & Finishing	21	17-Oct-16	09-Nov-16	0%
CP40 - ML03 - Ch5703				
CP - Pipe Jacking Method - Setup & Assembly	23	05-Sep-16	04-Oct-16	100%
CP - Piping Jacking Method - Break-in & Excavation	10	13-Oct-16	23-Oct-16	0%
CP - Pipe Jacking Method - Break-out & Demobilization	12	23-Oct-16	04-Nov-16	0%
CP - Remaining Internal Structure & Finishing	21	04-Nov-16	29-Nov-16	0%
CP39 - ML03 - Ch5607				
CP - Pipe Jacking Method - Setup & Assembly	23	15-Sep-16	15-Oct-16	100%
CP - Piping Jacking Method - Break-in & Excavation	10	17-Oct-16	26-Oct-16	0%
CP - Pipe Jacking Method - Break-out & Demobilization	12	27-Oct-16	07-Nov-16	0%
CP - Remaining Internal Structure & Finishing	21	08-Nov-16	01-Dec-16	0%
CP38 - ML03 - Ch5510				
CP - Pipe Jacking Method - Setup & Assembly	23	23-Sep-16	22-Oct-16	80%
CP - Piping Jacking Method - Break-in & Excavation	10	04-Nov-16	14-Nov-16	0%
CP - Pipe Jacking Method - Break-out & Demobilization	12	14-Nov-16	26-Nov-16	0%
CP - Remaining Internal Structure & Finishing	21	26-Nov-16	21-Dec-16	0%
CP37 - ML03 - Ch5413				
CP - Pipe Jacking Method - Setup & Assembly	23	03-Oct-16	29-Oct-16	10%
CP - Piping Jacking Method - Break-in & Excavation	10	08-Nov-16	17-Nov-16	0%
CP - Pipe Jacking Method - Break-out & Demobilization	12	18-Nov-16	29-Nov-16	0%
CP - Remaining Internal Structure & Finishing	21	30-Nov-16	23-Dec-16	0%
CP36 - ML03 - Ch5315				
CP - Pipe Jacking Method - Setup & Assembly	23	08-Oct-16	05-Nov-16	10%
CP - Piping Jacking Method - Break-in & Excavation	10	26-Nov-16	06-Dec-16	0%
CP - Pipe Jacking Method - Break-out & Demobilization	12	06-Dec-16	18-Dec-16	0%
CP - Remaining Internal Structure & Finishing	21	19-Dec-16	14-Jan-17	0%
CP35 - ML03 - Ch5217				
CP - Pipe Jacking Method - Setup & Assembly	23	17-Oct-16	11-Nov-16	10%
CP - Piping Jacking Method - Break-in & Excavation	10	30-Nov-16	09-Dec-16	0%
CP - Pipe Jacking Method - Break-out & Demobilization	12	10-Dec-16	21-Dec-16	0%
CP - Remaining Internal Structure & Finishing	21	22-Dec-16	18-Jan-17	0%
CP34 - ML03 - Ch5118				
CP - Pipe Jacking Method - Setup & Assembly	23	20-Oct-16	16-Nov-16	0%
CP - Piping Jacking Method - Break-in & Excavation	10	18-Dec-16	28-Dec-16	0%
CP - Pipe Jacking Method - Break-out & Demobilization	12	28-Dec-16	09-Jan-17	0%
CP - Remaining Internal Structure & Finishing	21	09-Jan-17	08-Feb-17	0%
CP33 - ML03 - Ch5020				
CP - Pipe Jacking Method - Setup & Assembly	23	26-Oct-16	22-Nov-16	0%
CP - Piping Jacking Method - Break-in & Excavation	10	22-Dec-16	31-Dec-16	0%
CP - Pipe Jacking Method - Break-out & Demobilization	12	01-Jan-17	12-Jan-17	0%
CP - Remaining Internal Structure & Finishing	21	13-Jan-17	13-Feb-17	0%
CP32 - ML03 - Ch4921				
CP - Pipe Jacking Method - Setup & Assembly	23	03-Nov-16	30-Nov-16	0%
CP - Piping Jacking Method - Break-in & Excavation	10	09-Jan-17	19-Jan-17	0%
CP - Pipe Jacking Method - Break-out & Demobilization	12	19-Jan-17	31-Jan-17	0%



Project ID: TMCLK DWPF 16W25

Data Date: 01-Jan-17

Planned Bar
Planned Bar - Critical
Planned Milestone
Progress bar
Progress Milestone

TMCLK - Northern Connection Sub-Sea Tunnel Section

Detailed Works Programme (Rev. F)

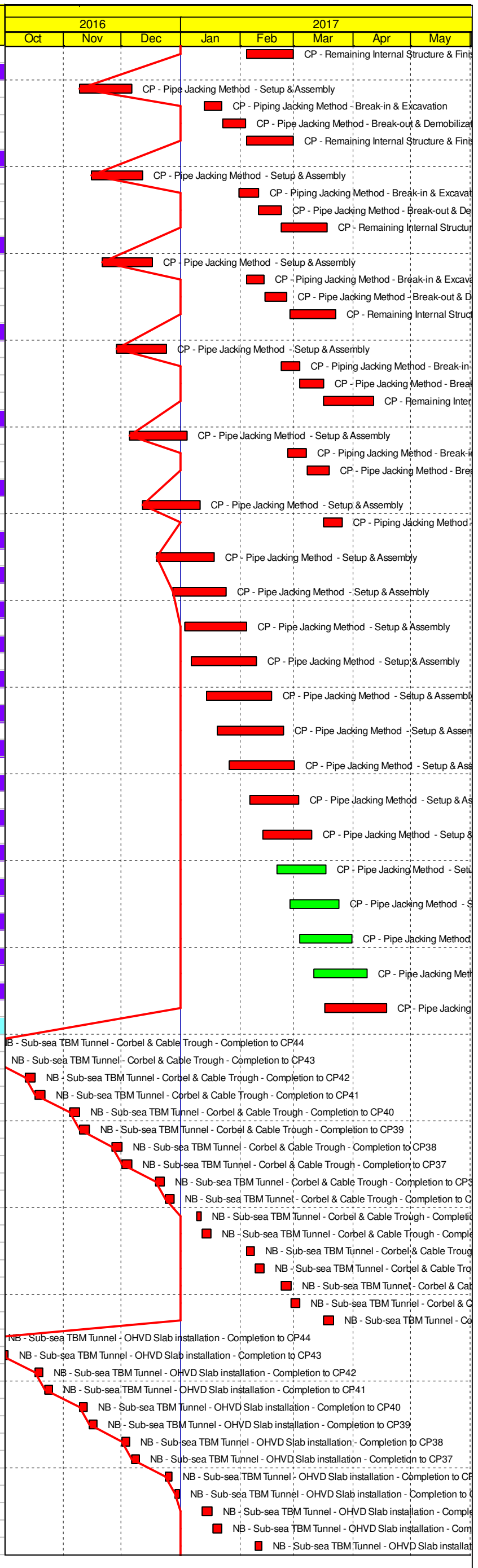
Three Months Rolling Programme

Progress as of 01-Jan-17

Dragages HongKong
A member of the Bouygues Construction group
Dragages - Bouygues Joint Venture 寶嘉 - 布依格聯營

Date	Revision	Checked	Approved
12-Feb-14	TMCLK/DBJ/GEN/PRG/98507	WYu	SPo
08-Apr-14	TMCLK/DBJ/GEN/PRG/98507 Rev.B	SPa	WYu
28-Aug-14	TMCLK/DBJ/GEN/PRG/98507 Rev.C	CLa	WYu
30-Oct-15	TMCLK/DBJ/GEN/PRG/98507 Rev.F	WYu	

Activity Name	Orig Dur	DWPF Start	DWPF Finish	% Comp
CP - Remaining Internal Structure & Finishing	21	04-Feb-17	28-Feb-17	0%
CP31 - ML03 - Ch4823				
CP - Pipe Jacking Method - Setup & Assembly	23	09-Nov-16	06-Dec-16	0%
CP - Piping Jacking Method - Break-in & Excavation	10	13-Jan-17	22-Jan-17	0%
CP - Pipe Jacking Method - Break-out & Demobilization	12	23-Jan-17	03-Feb-17	0%
CP - Remaining Internal Structure & Finishing	21	04-Feb-17	28-Feb-17	0%
CP30 - ML03 - Ch4724				
CP - Pipe Jacking Method - Setup & Assembly	23	15-Nov-16	12-Dec-16	0%
CP - Piping Jacking Method - Break-in & Excavation	10	31-Jan-17	10-Feb-17	0%
CP - Pipe Jacking Method - Break-out & Demobilization	12	10-Feb-17	22-Feb-17	0%
CP - Remaining Internal Structure & Finishing	21	22-Feb-17	18-Mar-17	0%
CP29 - ML03 - Ch4626				
CP - Pipe Jacking Method - Setup & Assembly	23	21-Nov-16	17-Dec-16	0%
CP - Piping Jacking Method - Break-in & Excavation	10	04-Feb-17	13-Feb-17	0%
CP - Pipe Jacking Method - Break-out & Demobilization	12	14-Feb-17	25-Feb-17	0%
CP - Remaining Internal Structure & Finishing	21	27-Feb-17	22-Mar-17	0%
CP28 - ML03 - Ch4527				
CP - Pipe Jacking Method - Setup & Assembly	23	28-Nov-16	24-Dec-16	0%
CP - Piping Jacking Method - Break-in & Excavation	10	22-Feb-17	04-Mar-17	0%
CP - Pipe Jacking Method - Break-out & Demobilization	12	04-Mar-17	16-Mar-17	0%
CP - Remaining Internal Structure & Finishing	21	16-Mar-17	11-Apr-17	0%
CP27 - ML03 - Ch4429				
CP - Pipe Jacking Method - Setup & Assembly	23	05-Dec-16	04-Jan-17	0%
CP - Piping Jacking Method - Break-in & Excavation	10	26-Feb-17	07-Mar-17	0%
CP - Pipe Jacking Method - Break-out & Demobilization	12	08-Mar-17	19-Mar-17	0%
CP26 - ML03 - Ch4330				
CP - Pipe Jacking Method - Setup & Assembly	23	12-Dec-16	11-Jan-17	0%
CP - Piping Jacking Method - Break-in & Excavation	10	16-Mar-17	26-Mar-17	0%
CP25 - ML03 - Ch4232				
CP - Pipe Jacking Method - Setup & Assembly	23	19-Dec-16	18-Jan-17	0%
CP24 - ML03 - Ch4133				
CP - Pipe Jacking Method - Setup & Assembly	23	28-Dec-16	24-Jan-17	0%
CP23 - ML03 - Ch4035				
CP - Pipe Jacking Method - Setup & Assembly	23	03-Jan-17	04-Feb-17	0%
CP22 - ML03 - Ch3936				
CP - Pipe Jacking Method - Setup & Assembly	23	06-Jan-17	09-Feb-17	0%
CP21 - ML03 - Ch3838				
CP - Pipe Jacking Method - Setup & Assembly	23	14-Jan-17	17-Feb-17	0%
CP20 - ML03 - Ch3739				
CP - Pipe Jacking Method - Setup & Assembly	23	20-Jan-17	23-Feb-17	0%
CP19 - ML03 - Ch3641				
CP - Pipe Jacking Method - Setup & Assembly	23	26-Jan-17	01-Mar-17	0%
CP18 - ML03 - Ch3542				
CP - Pipe Jacking Method - Setup & Assembly	23	06-Feb-17	03-Mar-17	0%
CP17 - ML03 - Ch3444				
CP - Pipe Jacking Method - Setup & Assembly	23	13-Feb-17	10-Mar-17	0%
CP16 - ML03 - Ch3345				
CP - Pipe Jacking Method - Setup & Assembly	23	20-Feb-17	17-Mar-17	0%
CP15 - ML03 - Ch3247				
CP - Pipe Jacking Method - Setup & Assembly	23	27-Feb-17	24-Mar-17	0%
CP14 - ML03 - Ch3148				
CP - Pipe Jacking Method - Setup & Assembly	23	04-Mar-17	31-Mar-17	0%
CP13 - ML03 - Ch3050				
CP - Pipe Jacking Method - Setup & Assembly	23	11-Mar-17	08-Apr-17	0%
CP12 - ML03 - Ch2951				
CP - Pipe Jacking Method - Setup & Assembly	23	17-Mar-17	18-Apr-17	0%
Sub-sea TBM Tunnel - NB - Remaining Internal Structure				
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP44	5	19-Sep-16	23-Sep-16	0%
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP43	5	24-Sep-16	29-Sep-16	0%
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP42	5	12-Oct-16	17-Oct-16	0%
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP41	5	17-Oct-16	22-Oct-16	0%
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP40	5	04-Nov-16	09-Nov-16	0%
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP39	5	09-Nov-16	14-Nov-16	0%
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP38	5	26-Nov-16	01-Dec-16	0%
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP37	5	01-Dec-16	06-Dec-16	0%
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP36	5	19-Dec-16	23-Dec-16	0%
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP35	5	24-Dec-16	28-Dec-16	0%
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP34	3	09-Jan-17	11-Jan-17	0%
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP33	5	12-Jan-17	16-Jan-17	0%
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP32	5	04-Feb-17	08-Feb-17	0%
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP31	5	09-Feb-17	13-Feb-17	0%
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP30	5	22-Feb-17	27-Feb-17	0%
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP29	5	27-Feb-17	04-Mar-17	0%
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP28	5	16-Mar-17	21-Mar-17	0%
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44	4	24-Sep-16	27-Sep-16	0%
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43	4	29-Sep-16	03-Oct-16	0%
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42	4	17-Oct-16	21-Oct-16	0%
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP41	4	22-Oct-16	26-Oct-16	0%
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP40	4	09-Nov-16	13-Nov-16	0%
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP39	4	14-Nov-16	18-Nov-16	0%
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP38	4	01-Dec-16	05-Dec-16	0%
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP37	4	06-Dec-16	10-Dec-16	0%
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP36	4	24-Dec-16	27-Dec-16	0%
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP35	3	29-Dec-16	31-Dec-16	0%
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP34	6	12-Jan-17	17-Jan-17	0%
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP33	5	18-Jan-17	22-Jan-17	0%
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP32	4	09-Feb-17	12-Feb-17	0%



Project ID: TMCLK DWPF 16W25

Data Date: 01-Jan-17

Planned Bar
Planned Bar - Critical
Planned Milestone
Progress bar
Progress Milestone

TMCLK - Northern Connection Sub-Sea Tunnel Section

Detailed Works Programme (Rev. F)

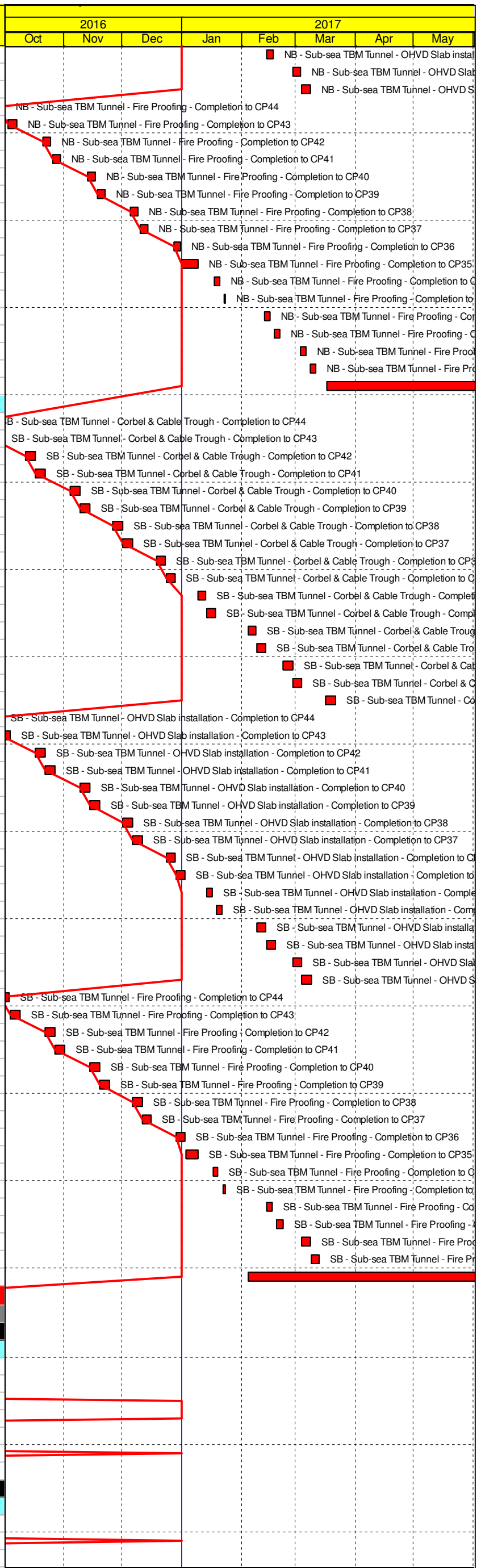
Three Months Rolling Programme

Progress as of 01-Jan-17

Dragages - Bouygues Joint Venture 寶嘉 · 布依格聯營

Date	Revision	Checked	Approved
12-Feb-14	TMCLK/DBJGEN/PRG/98507	WYu	SPo
08-Apr-14	TMCLK/DBJGEN/PRG/98507 Rev.B	SPa	WYu
28-Aug-14	TMCLK/DBJGEN/PRG/98507 Rev.C	CLa	WYu
30-Oct-15	TMCLK/DBJGEN/PRG/98507 Rev.F	WYu	

Activity Name	Orig Dur	DWPF Start	DWPF Finish	% Comp
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP31	4	14-Feb-17	17-Feb-17	0%
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP30	4	27-Feb-17	03-Mar-17	0%
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP29	4	04-Mar-17	08-Mar-17	0%
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44	4	28-Sep-16	01-Oct-16	0%
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43	4	03-Oct-16	07-Oct-16	0%
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP42	4	21-Oct-16	25-Oct-16	0%
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41	4	26-Oct-16	30-Oct-16	0%
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40	4	13-Nov-16	17-Nov-16	0%
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39	4	18-Nov-16	22-Nov-16	0%
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38	4	05-Dec-16	09-Dec-16	0%
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37	4	10-Dec-16	14-Dec-16	0%
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36	4	28-Dec-16	31-Dec-16	0%
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP35	9	01-Jan-17	09-Jan-17	0%
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34	3	18-Jan-17	20-Jan-17	0%
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33	1	23-Jan-17	23-Jan-17	0%
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32	3	13-Feb-17	15-Feb-17	0%
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31	3	18-Feb-17	20-Feb-17	0%
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30	3	03-Mar-17	06-Mar-17	0%
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP29	3	08-Mar-17	11-Mar-17	0%
NB - Sub-sea TBM Tunnel - Road Level Fire Proofing	334	17-Mar-17	10-May-18	0%
Sub-sea TBM Tunnel - SB - Remaining Internal Structure				
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP44	5	19-Sep-16	23-Sep-16	0%
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP43	5	24-Sep-16	29-Sep-16	0%
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP42	5	12-Oct-16	17-Oct-16	0%
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP41	5	17-Oct-16	22-Oct-16	0%
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP40	5	04-Nov-16	09-Nov-16	0%
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP39	5	09-Nov-16	14-Nov-16	0%
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP38	5	26-Nov-16	01-Dec-16	0%
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP37	5	01-Dec-16	06-Dec-16	0%
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP36	5	19-Dec-16	23-Dec-16	0%
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP35	5	24-Dec-16	28-Dec-16	0%
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP34	5	09-Jan-17	13-Jan-17	0%
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP33	5	14-Jan-17	18-Jan-17	0%
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP32	5	04-Feb-17	08-Feb-17	0%
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP31	5	09-Feb-17	13-Feb-17	0%
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP30	5	22-Feb-17	27-Feb-17	0%
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP29	5	27-Feb-17	04-Mar-17	0%
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP28	5	16-Mar-17	21-Mar-17	0%
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44	5	24-Sep-16	28-Sep-16	0%
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43	5	29-Sep-16	04-Oct-16	0%
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP42	5	17-Oct-16	22-Oct-16	0%
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP41	5	22-Oct-16	27-Oct-16	0%
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP40	5	09-Nov-16	14-Nov-16	0%
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP39	5	14-Nov-16	19-Nov-16	0%
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP38	5	01-Dec-16	06-Dec-16	0%
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP37	5	06-Dec-16	11-Dec-16	0%
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP36	5	24-Dec-16	28-Dec-16	0%
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP35	5	29-Dec-16	02-Jan-17	0%
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP34	3	14-Jan-17	16-Jan-17	0%
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP33	3	19-Jan-17	21-Jan-17	0%
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP32	5	09-Feb-17	13-Feb-17	0%
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP31	5	14-Feb-17	18-Feb-17	0%
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP30	5	27-Feb-17	04-Mar-17	0%
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP29	5	04-Mar-17	09-Mar-17	0%
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44	5	29-Sep-16	03-Oct-16	0%
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43	5	04-Oct-16	09-Oct-16	0%
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP42	5	22-Oct-16	27-Oct-16	0%
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41	5	27-Oct-16	01-Nov-16	0%
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40	5	14-Nov-16	19-Nov-16	0%
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39	5	19-Nov-16	24-Nov-16	0%
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38	5	06-Dec-16	11-Dec-16	0%
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37	5	11-Dec-16	16-Dec-16	0%
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36	5	29-Dec-16	02-Jan-17	0%
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP35	7	03-Jan-17	09-Jan-17	0%
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34	3	17-Jan-17	19-Jan-17	0%
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33	2	22-Jan-17	23-Jan-17	0%
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32	3	14-Feb-17	16-Feb-17	0%
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31	4	19-Feb-17	22-Feb-17	0%
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30	4	04-Mar-17	08-Mar-17	0%
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP29	4	09-Mar-17	13-Mar-17	0%
SB - Remaining Fire Proofing in Tunnel	334	04-Feb-17	23-Mar-18	0%
Southern Landfall				
South Cut & Cover Tunnel				
Design Submission				
(E2) DDA for South C&C Box & Approach Ramp				
Review & Comment by JV	18	09-Dec-14	31-Dec-14	88%
Designer prepare DDA	10	02-Jan-15	13-Jan-15	0%
Formal Submission of DDA to ICE/ IPs	0		13-Jan-15	0%
Advanced Submission to SO	0		13-Jan-15	0%
IPs/ SO's Advance Comments/ ICE Comments	28	14-Jan-15	10-Feb-15	0%
Comments Received	0		10-Feb-15	0%
Designer to Reply RtC + Update Submission	21	11-Feb-15	10-Mar-15	0%
Method Statement Submission				
Method Statement of Construction Methodology of C&C Tunnels				
Preparation Method Statement for C&C Tunnels	25	28-Mar-15	30-Apr-15	0%
Submit Method Statement to SO	0		30-Apr-15	0%
SO Reviews & Comments	28	01-May-15	28-May-15	0%



Project ID: TMCLK DWPF 16W25

Data Date: 01-Jan-17

Planned Bar
Planned Bar - Critical
Planned Milestone
Progress bar
Progress Milestone

TMCLK - Northern Connection Sub-Sea Tunnel Section

Detailed Works Programme (Rev. F)

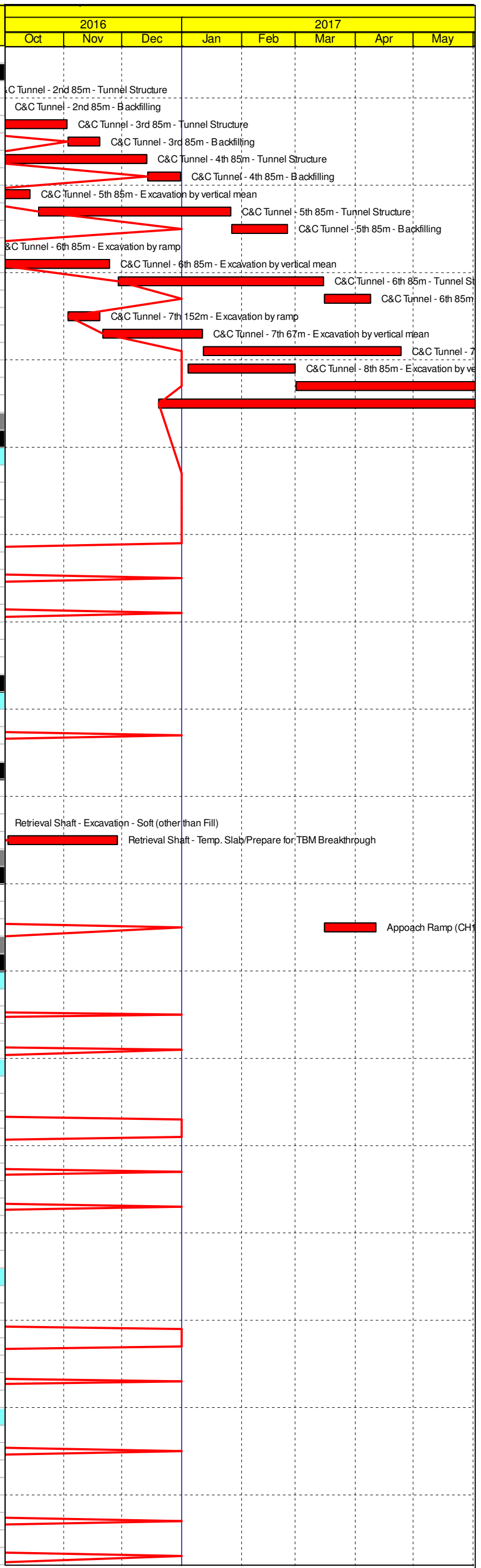
Three Months Rolling Programme

Progress as of 01-Jan-17

Dragages - Bouygues Joint Venture 寶嘉 - 布依格聯營

Date	Revision	Checked	Approved
12-Feb-14	TMCLK/DBJGEN/PRG/98507	WYu	SPo
08-Apr-14	TMCLK/DBJGEN/PRG/98507 Rev.B	SPa	WYu
28-Aug-14	TMCLK/DBJGEN/PRG/98507 Rev.C	CLa	WYu
30-Oct-15	TMCLK/DBJGEN/PRG/98507 Rev.F	WYu	

Activity Name	Orig Dur	DWPF Start	DWPF Finish	% Comp
Re-submission	18	29-May-15	18-Jun-15	0%
Construction				
C&C Tunnel - 2nd 85m - Tunnel Structure	83	14-Jun-16	20-Sep-16	0%
C&C Tunnel - 2nd 85m - Backfilling	9	21-Sep-16	30-Sep-16	0%
C&C Tunnel - 3rd 85m - Tunnel Structure	83	26-Jul-16	02-Nov-16	0%
C&C Tunnel - 3rd 85m - Backfilling	15	03-Nov-16	19-Nov-16	0%
C&C Tunnel - 4th 85m - Tunnel Structure	83	05-Sep-16	13-Dec-16	0%
C&C Tunnel - 4th 85m - Backfilling	14	14-Dec-16	31-Dec-16	0%
C&C Tunnel - 5th 85m - Excavation by vertical mean	44	22-Aug-16	14-Oct-16	0%
C&C Tunnel - 5th 85m - Tunnel Structure	83	19-Oct-16	26-Jan-17	0%
C&C Tunnel - 5th 85m - Backfilling	19	27-Jan-17	24-Feb-17	0%
C&C Tunnel - 6th 85m - Excavation by ramp	27	22-Aug-16	22-Sep-16	0%
C&C Tunnel - 6th 85m - Excavation by vertical mean	52	23-Sep-16	24-Nov-16	0%
C&C Tunnel - 6th 85m - Tunnel Structure	83	29-Nov-16	15-Mar-17	0%
C&C Tunnel - 6th 85m - Backfilling	20	16-Mar-17	08-Apr-17	0%
C&C Tunnel - 7th 152m - Excavation by ramp	15	03-Nov-16	19-Nov-16	0%
C&C Tunnel - 7th 67m - Excavation by vertical mean	42	21-Nov-16	11-Jan-17	0%
C&C Tunnel - 7th 67m - Tunnel Structure	78	12-Jan-17	24-Apr-17	0%
C&C Tunnel - 8th 85m - Excavation by vertical mean	42	04-Jan-17	28-Feb-17	0%
C&C Tunnel - 8th 85m - Tunnel Structure	88	01-Mar-17	19-Jun-17	0%
Intermediate Slab	164	20-Dec-16	18-Jul-17	0%
South Retrieval Shaft				
Design Submission				
(F4) Gantry Crane Support/Foundations in Southern Landfall				
Preparation of IFA Gantry Crane / Foundation	18	27-Jul-15	15-Aug-15	100%
Review & Comment by JV	18	17-Aug-15	05-Sep-15	100%
Designer prepare IFA	10	07-Sep-15	17-Sep-15	100%
Formal Submission of IFA to ICE/ IPs	0		17-Sep-15	100%
Advanced Submission to SO	0		17-Sep-15	100%
IPs/ SO's Advance Comments/ ICE Comments	28	18-Sep-15	15-Oct-15	88%
Comments Received	0		15-Oct-15	0%
Designer to Reply RtC + Update Submission	21	16-Oct-15	10-Nov-15	0%
Submit Updated IFA to SO/ ICE/ IPs	0	11-Nov-15		0%
ICE Approval & Issue Check Cert	12	11-Nov-15	24-Nov-15	0%
IPs Review	28	11-Nov-15	08-Dec-15	0%
SO's Review	35	11-Nov-15	15-Dec-15	0%
Method Statement Submission				
Method Statement of Construction Methodology of Retrieval Shaft				
Preparation Method Statement for Retrieval Shaft	25	24-Aug-15	21-Sep-15	0%
Submit Method Statement to SO	0		21-Sep-15	0%
SO Reviews & Comments	28	22-Sep-15	19-Oct-15	0%
Construction				
South Landfall GI Works/DW Setting Up	48	06-Aug-15	02-Oct-15	0%
South Retrieval Shaft - Diaphragm Wall	98	03-Oct-15	29-Jan-16	80%
Retrieval Shaft - Excavation - Soft (other than Fill)	140	15-Apr-16	30-Sep-16	0%
Retrieval Shaft - Temp. Slab/Prepare for TBM Breakthrough	48	03-Oct-16	28-Nov-16	0%
South Approach Ramp				
Construction				
Appoach Ramp (CH1580-1850) - Pipe Pile/Sheet Piles Wall	126	03-Oct-15	09-Mar-16	0%
Appoach Ramp (CH1580-1850) - Tension Piles	103	03-Oct-15	04-Feb-16	0%
Appoach Ramp (CH1580-1800) - Excavation,	22	16-Mar-17	11-Apr-17	0%
South Ventilation Building				
Design Submission				
(I1) DDA for South Vent.Bldg. GBP & Arch.Submission				
IPs Review	28	22-Dec-14	18-Jan-15	88%
IP's No Objection Received	0		18-Jan-15	0%
SO's Review	35	22-Dec-14	25-Jan-15	91%
SO Approval with Condition Received	0		26-Jan-15	0%
(I2) DDA for South Vent.Bldg. Foundation Design				
Review & Comment by JV	18	27-Apr-15	18-May-15	88%
Designer prepare DDA	10	19-May-15	30-May-15	0%
Formal Submission of DDA to ICE/ IPs	0		30-May-15	0%
Advanced Submission to SO	0		30-May-15	0%
IPs/ SO's Advance Comments/ ICE Comments	28	31-May-15	27-Jun-15	0%
Comments Received	0		27-Jun-15	0%
Designer to Reply RtC + Update Submission	21	29-Jun-15	23-Jul-15	0%
Submit Updated DDA to SO/ ICE/ IPs	0	24-Jul-15		0%
ICE Approval & Issue Check Cert	18	24-Jul-15	13-Aug-15	0%
IPs Review	28	24-Jul-15	20-Aug-15	0%
SO's Review	35	24-Jul-15	27-Aug-15	0%
(I2) DDA for South Vent.Bldg.Structural Design incl.Vent.Connections				
Review & Comment by JV	18	18-Feb-15	13-Mar-15	76%
Designer prepare DDA	10	14-Mar-15	25-Mar-15	0%
Formal Submission of DDA to ICE/ IPs	0		25-Mar-15	0%
Advanced Submission to SO	0		25-Mar-15	0%
IPs/ SO's Advance Comments/ ICE Comments	28	26-Mar-15	22-Apr-15	0%
Comments Received	0		22-Apr-15	0%
Designer to Reply RtC + Update Submission	21	23-Apr-15	18-May-15	0%
(J1) DDA Temp.works for Construction of Sth.Vent.Bldg.				
Designer to Reply RtC + Update Submission	21	24-Aug-15	16-Sep-15	90%
Submit Updated DDA to SO/ ICE/ IPs	0	17-Sep-15		0%
ICE Approval & Issue Check Cert	12	17-Sep-15	02-Oct-15	0%
Submit ICE Check Cert to SO	6	03-Oct-15	09-Oct-15	0%
IPs Review	28	17-Sep-15	14-Oct-15	0%
IP's No Objection Received	0		14-Oct-15	0%
SO's Review	35	17-Sep-15	21-Oct-15	0%
SO Approval with Condition Received	0		22-Oct-15	0%



Project ID: TMCLK DWPF 16W25

Data Date: 01-Jan-17

Planned Bar
Planned Bar - Critical
Planned Milestone
Progress bar
Progress Milestone

TMCLK - Northern Connection Sub-Sea Tunnel Section

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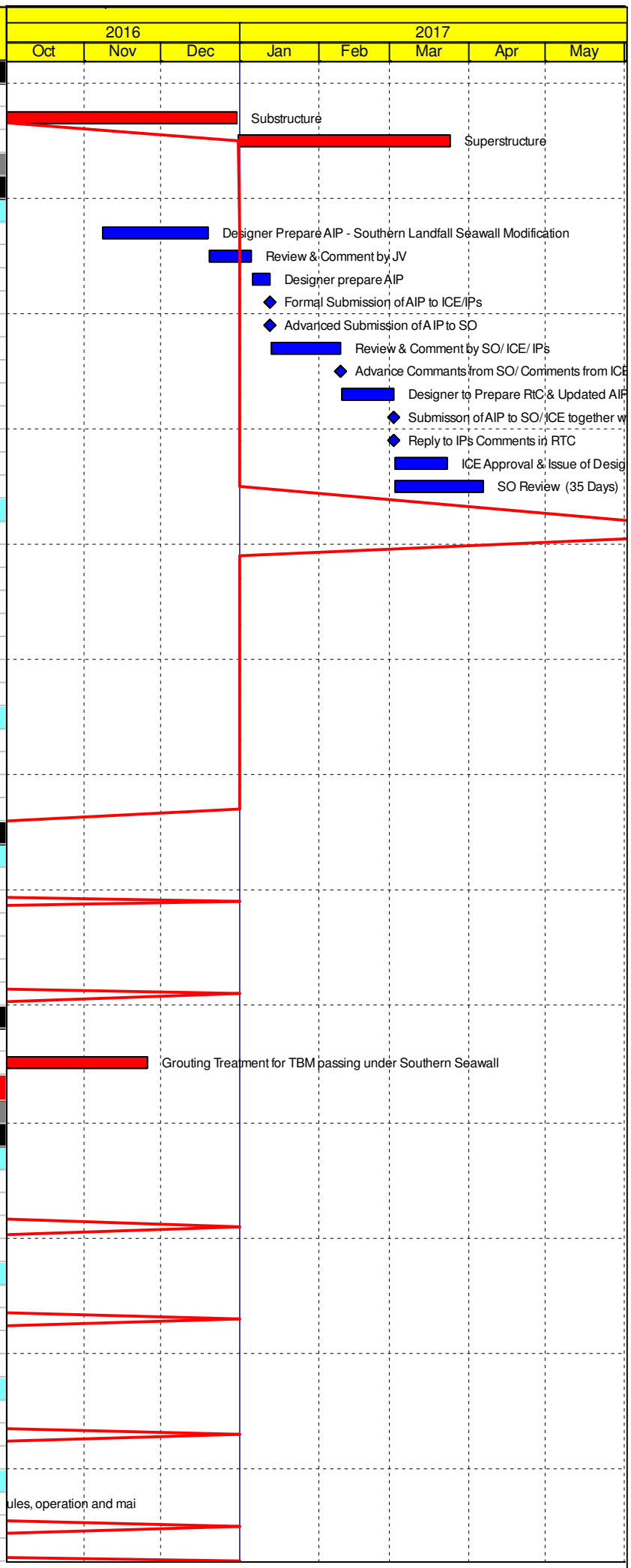
30-Oct-15	TMCLK/DBJGEN/PRG/98507 Rev.F	WYu	

Activity Name	Orig Dur	DWPF Start	DWPF Finish	% Comp
Construction				
Mobilization & Setting Up Piling Rigs	64	06-Aug-15	22-Oct-15	0%
Substructure	95	06-Sep-16	30-Dec-16	0%
Superstructure	65	31-Dec-16	24-Mar-17	0%
South Surface Roadworks, Utility & Drainage works				
Design Submission				
(E1) AIP - Southern Landfall Seawall Modification				
Designer Prepare AIP - Southern Landfall Seawall Modification	36	08-Nov-16	19-Dec-16	100%
Review & Comment by JV	12	20-Dec-16	05-Jan-17	100%
Designer prepare AIP	6	06-Jan-17	12-Jan-17	100%
Formal Submission of AIP to ICE/IPs	0		12-Jan-17	100%
Advanced Submission of A IP to SO	0		12-Jan-17	100%
Review & Comment by SO/ ICE/ IPs	28	13-Jan-17	09-Feb-17	100%
Advance Commants from SO/ Comments from ICE/ IPs Received	0		09-Feb-17	100%
Designer to Prepare RtC & Updated AIP	18	10-Feb-17	02-Mar-17	100%
Submisson of AIP to SO/ ICE together with Reply To Comment (RTC)	0		02-Mar-17	100%
Reply to IPs Comments in RTC	0		02-Mar-17	100%
ICE Approval & Issue of Design Check Cert.	18	03-Mar-17	23-Mar-17	100%
SO Review (35 Days)	35	03-Mar-17	06-Apr-17	100%
(E1) DDA - Southern Landfall Seawall Modification				
Designer to Reply RtC + Update Submission	21	05-Jul-17	28-Jul-17	83.33%
Submit Updated DDA to SO/ ICE/ IPs	0	29-Jul-17		0%
ICE Approval & Issue Check Cert	12	29-Jul-17	11-Aug-17	0%
Submit ICE Check Cert to SO	6	12-Aug-17	18-Aug-17	0%
IPs Review	28	29-Jul-17	25-Aug-17	0%
IP's No Objection Received	0		25-Aug-17	0%
SO's Review	35	29-Jul-17	01-Sep-17	0%
SO Approval with Condition Received	0		01-Sep-17	0%
(E3) DDA for Sewerage, Drainage, Waterworks & Utility works for South Landfall				
IPs Review	28	02-Mar-15	29-Mar-15	100%
IP's No Objection Received	0		29-Mar-15	100%
SO's Review	35	02-Mar-15	05-Apr-15	100%
SO Approval with Condition Received	0		08-Apr-15	100%
Method Statement Submission				
Method Statement of Ground Treatment for TBMs Passing under Southern Landfall Seawall				
Preparation Method Statement for Ground Improvement in South Landfall	9	20-Jul-15	29-Jul-15	0%
Submit Method Statement to SO	0		29-Jul-15	0%
SO Reviews & Comments	28	30-Jul-15	26-Aug-15	0%
Re-submission	6	27-Aug-15	02-Sep-15	0%
SO's Review	28	03-Sep-15	30-Sep-15	0%
SO's Approval	0		30-Sep-15	0%
Construction				
Temporary Platform for Ground Treatment for TBM passing under Southern Seawall	48	06-Aug-15	02-Oct-15	0%
Grouting Treatment for TBM passing under Southern Seawall	339	03-Oct-15	25-Nov-16	0%
Testing & Commissioning/Inspection & Handover				
Final Inspection & Handover				
Design Submission				
(A12) Maintenance Matrix				
Preparation of Maintenance Matrix	35	24-Dec-15	05-Feb-16	100%
Prepare Re-submission	18	12-Mar-16	06-Apr-16	88%
2nd Submission	0		06-Apr-16	0%
SO's Condition Approval	35	07-Apr-16	11-May-16	0%
(A13) Operation & Maintenance Manual				
Preparation of Operation and Maintenance Manual	48	24-Dec-15	27-Feb-16	0%
1st Submission	0		27-Feb-16	0%
SO's Comments for 1st Submission	35	28-Feb-16	02-Apr-16	0%
Prepare Re-submission	24	05-Apr-16	03-May-16	0%
(A14) As-built & As-fabricated Drawings				
Preparation of As-built and As-fabricated Drawings	48	24-Dec-15	27-Feb-16	0%
1st Submission	0		27-Feb-16	0%
SO's Comments for 1st Submission	35	28-Feb-16	02-Apr-16	0%
(A15) Health & Safety File incl.As-built Dwgs & Records,Maintenance Schedules,O&M Manual				
Preparation of Health and Safety File including as-built drawings and records, maintenance schedules, op	48	24-Dec-15	27-Feb-16	0%
1st Submission	0		27-Feb-16	0%
SO's Comments for 1st Submission	35	28-Feb-16	02-Apr-16	0%



Planned Bar
Planned Bar - Critical
Planned Milestone
Progress bar
Progress Milestone

TMCLK - Northern Connection Sub-Sea Tunnel Section

Detailed Works Programme (Rev. F)

Three Months Rolling Programme

Progress as of 01-Jan-17

Dragages - Bouygues Joint Venture 寶嘉 - 布依格聯營

Date	Revision	Checked	Approved
12-Feb-14	TMCLK/DBJ/GEN/PRG/98507	WYu	SPo
08-Apr-14	TMCLK/DBJ/GEN/PRG/98507 Rev.B	SPa	WYu
28-Aug-14	TMCLK/DBJ/GEN/PRG/98507 Rev.C	CLa	WYu
30-Oct-15	TMCLK/DBJ/GEN/PRG/98507 Rev.F	WYu	

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

ENVIRONMENTAL COMPLAINT/ENQUIRY INVESTIGATION REPORT

Our Reference: 0212330_Complaint LOG_20170214_12

Basic Information of Complaint/Enquiry

Reference Number:	EP/RW/0000358212
Date of Complaint/Enquiry Received	6 February 2017
Location of Complaint/Enquiry	Site area near Ho Yeung Street
Nature of Complaint/Enquiry	Muddy water discharge
Complaint/Enquiry Received by	EPD
Via	Fax
Complainant/Enquirer	Not disclosed

Details of Complaint/Enquiry

On 6 February 2017, a complaint case was received by EPD regarding muddy water discharge from the site near Ho Yeung Street from 12:00am on 31 January 2017 to 4:00am on 1 February 2017. The IEC, the Environmental Team (ET) and the Project Proponent received the complaint notification from EPD on 14 February 2017. The ET was informed that the case is categorized as complaint in nature upon the investigation, discussion and agreement between relevant parties (i.e. the Contractor (DBJV), SOR and IEC).

Investigation Report

Upon receiving the case notification from EPD on 14 February 2017, the Contractor had promptly checked the construction programme of January and February 2017.

According to the construction programme provided by the Contractor, no construction works were carried out at the site near Ho Yeung Street during January and February 2017. No improper discharge was recorded. Two wetseps were set up at the site near Ho Yeung Street to treat the wastewater directed from the Slurry Treatment Plant during the incident period. Treated wastewater was discharged to the designated discharge point specified in the Water Discharge License. Site drainage plan of N6 is provided in Annex A.

Moreover, according to the inspection record of DBJV at midnight on 31 January and 1 February, the wastewater was properly treated by the wetsep before discharge. No improper discharge was observed during inspection. Photos taken by DBJV during the incident period were provided in Annex B.

ET has conducted an interview with the site foreman who was responsible for the wastewater treatment and management of wetsep of N6 during the incident period. It was confirmed that there was no improper discharge at N6 site area during the incident period. Maintenance record of the N6 wetsep during the incident period is provided in Annex C.

In addition, ET has conducted a joint site inspection with IEC, SOR and DBJV on 21 February 2017. No improper discharge was observed at the site near Ho Yeung Street. Two wetseps were operating to treat the wastewater from STP. No leakage of water pipes or malfunction of the wetseps was observed during the inspection. No water pipes were found on the seaside. Photos showing the site conditions are provided in Annex B.

Based on the above, there is no evidence to prove that the complaint case is related to this Contract.

Mitigation Measures and Follow-Up Actions Recommended to/ Undertaken by Contractor

There is no evidence to prove that the complaint case is related to this Contract. The Contractor was reminded to review and enhance the current mitigation measures to avoid similar situation. The Contractor has been reminded to adhere strictly to implement all relevant mitigation measures of water quality impact recommended or specified in the EP (EP-354/2009/D), the approved EIA, Updated EM&A Manual and the Water Discharge License of this Project to avoid causing water pollution. The Contractor shall also fully comply with the conditions in the approved water discharge license to carry out construction works under the Contract.

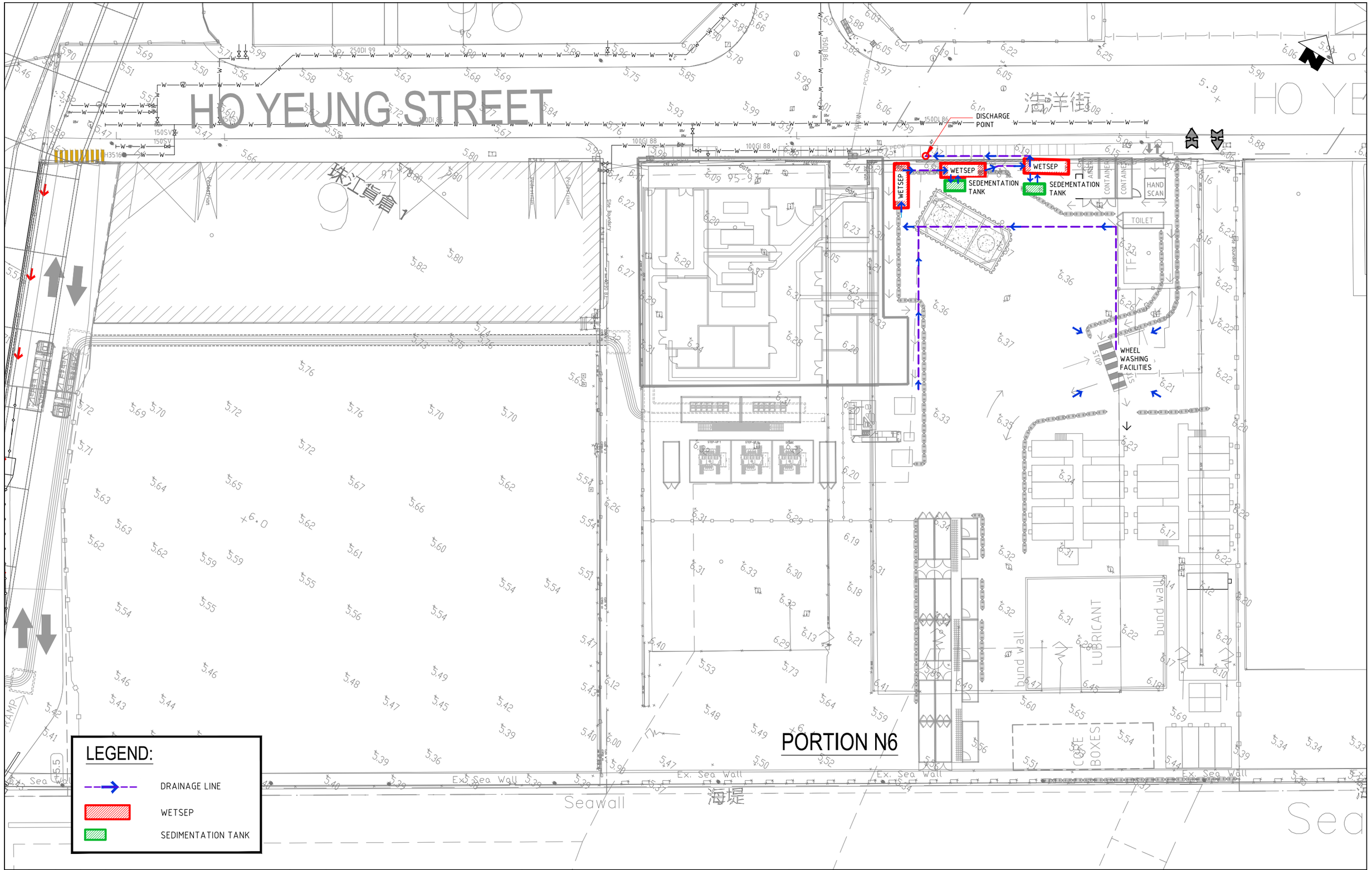
Date of File Closed : 21 March 2017

Approved and Filed by:

(Jovy Tam, ET Leader)
Date: 21 March 2017

Annex A

Site Drainage Management Plan



Rev.	Date	Drawn	Designed	Verified	Description	Approved
C	10FEB17	KBP	ACM	ECa	DRAINAGE LAYOUT REVISED	ASc
B	07DEC16	KBa	PKV	PKV	DISCHARGE POINT RELOCATED	ASc
A	01SEP16	KBa	ECa	ECa	FIRST ISSUE	SPo

Main Contractor
香港喜嘉 Dragages Hong Kong
A member of the Bouygues Construction group
Dragages - Bouygues Joint Venture 喜嘉 - 布敖特聯營

Client
路政署 HIGHWAYS DEPARTMENT

Contractor's Designer
ARUP Ove Arup & Partners Hong Kong Limited

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

Drawing Title
GENERAL
PORTION N6
DRAINAGE LAYOUT

Drawing no. TMCLKL8-DBJ-NAA-MSI-11513
Scale 1:500 @ A3
CADD Ref. NAA-MSI011513-C-DFT
Issue Status DFT (DRAFT)
Revision C

Annex B

Photo Record

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Annex B Photo Records taken during Site Investigation

*Note: Photos taken on 21/2/2017

Wastewater was treated in the Wetsep before discharge.

*Note: Photos taken on 21/2/2017

No improper discharge was observed on the seaside.

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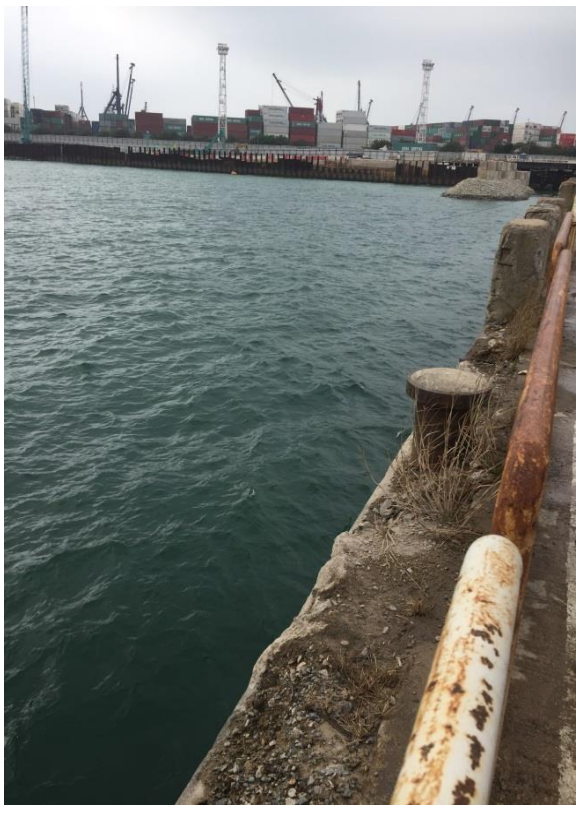
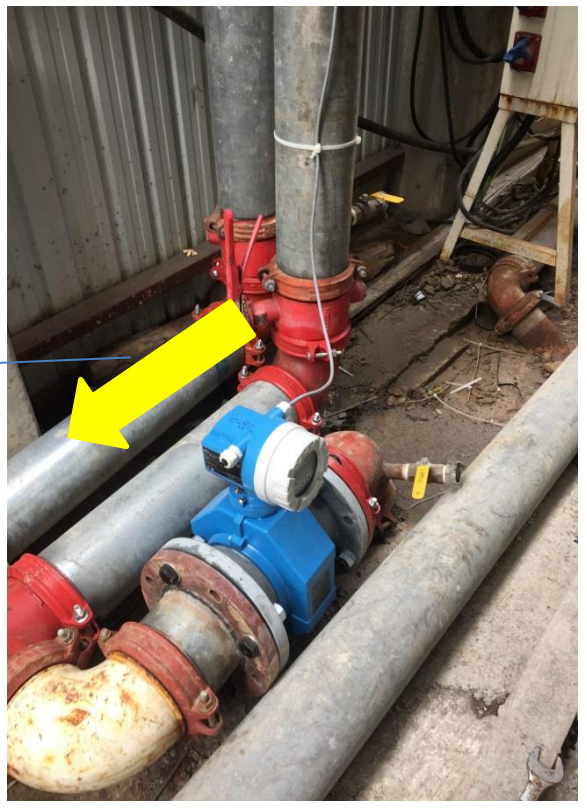
Annex B Photo Records taken during Site Investigation

*Note: Photos taken on 21/2/2017



No improper discharge was observed on the seaside.

*Note: Photos taken on 21/2/2017



Treated wasterwater was directed to the designated discharge point.

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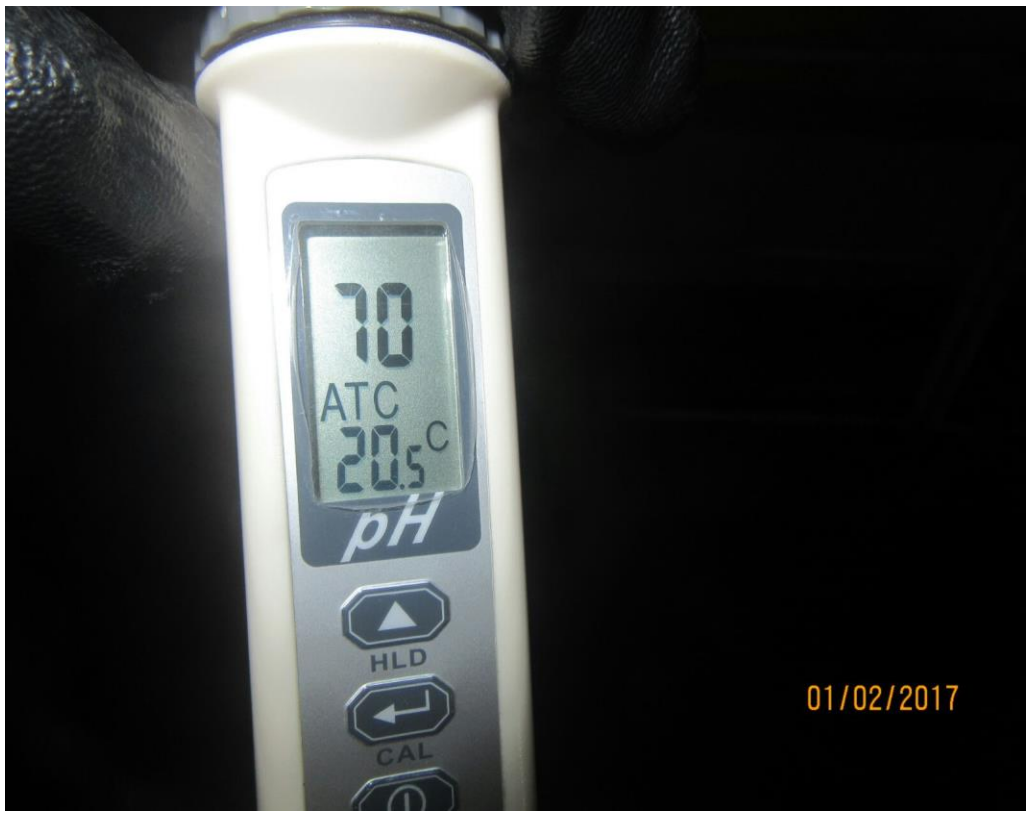
Annex B Photo Records taken by DBJV

*Note: Photos taken on 1/2/2017

Wastewater was functioning properly.

*Note: Photos taken on 1/2/2017



Water sample was taken for checking.

Annex C

Maintenance Record of Wetsep

Dragages - Bouygues Joint Venture 實德 - 布依格聯營	Contract No. HY/2012/08 Tuen Mun – Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section	**WETSEP Checking Record** **污水處理機檢查記錄**

WETSEP Location 污水處理機位置: NB

Date 日期: 30-12-16 to 至 5-2-17

		Monday 星期一	Tuesday 星期二	Wednesday 星期三	Thursday 星期四	Friday 星期五	Saturday 星期六	Sunday 星期日
1.	WETSEP In Normal Operation? 處理機是否正常運作?	✓	✓	✓	✓	✓	✓	✓
2.	pH Value 酸鹼度 (6.0 – 9.0)	7.4	6.1	6.7	6.0	7.3	6.8	7.5
3.	Electrical Supply OK? 電力供應正常?	✓	✓	✓	✓	✓	✓	✓
4.	Outlet Abnormal? 出水口有否異常?	X	X	X	X	X	X	X
5.	Potion Enough? 藥水是否足夠?	✓	✓	✓	✓	✓	✓	✓
6.	Clean the Sedimentation Tank? 有否清理隔沙缸?	✓	✓	✓	✓	✓	✓	✓
7.	Clean the De-silt Basin? 有否清理蓄泥池?	✓	✓	✓	✓	✓	✓	✓
8.	Are the Cleansing Records of Sedimentation Tank/ De-silt Basin Stored Properly? 清理蓄泥池記錄是否妥善儲存?	✓	✓	✓	✓	✓	✓	✓
9.	Refill of Flocculants? pH Neutralization agent? 補充凝絮劑/酸鹼調節劑?	✓	✓	✓	✓	✓	✓	✓
10	Flow rate of the discharge 排放流量	正常	正常	正常	正常	正常	正常	正常
11	Nature and Composition of the discharge 廢水排放的性質及成份	无色	无色	无色	无色	无色	无色	无色
12	Proper Desludging operation and disposal 正確清除及處理淤泥	✓	✓	✓	✓	✓	✓	✓
13	Others 其他情況							
	Verified by Site Foreman/Supervisor 地盤管工/監督簽署確認	Cck	Cck	Cck	Cck	Cck	Cck	Cck

*Please - tick (√) in the box if the condition is normal. *若情況正常, 請於方格內加上剔號(√)。
cross (X) in the box if the condition is abnormal, and write down the non-conformance.
*若情況不尋常, 請於方格內加上交叉(X), 並寫下不尋常狀況。

Remarks:
(1) Please keep the record and send to environmental department in monthly basis.
備註:
(1) 請將記錄妥善保存, 並每月將記錄交回環保部。

Email message

Environmental Resources Management

16/F Berkshire House,
25 Westlands Road
Quarry Bay, Hong Kong
Telephone: (852) 2271 3113
Facsimile: (852) 2723 5660
E-mail: jovy.tam@erm.com

To	Ramboll Environ - Hong Kong, Limited (ENPO)
From	ERM- Hong Kong, Limited
Ref/Project number	Contract No. HY/2012/08 Tuen Mun–Chek Lap Kok Link–Northern Connection Sub-sea Tunnel Section
Subject	Notification of Exceedance for Impact Dolphin Monitoring
Date	13 June 2017

ERM

Dear Sir or Madam,

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

0212330_Dec2016/Feb2017_dolphin_STG&ANI_NEL&NWL

A total of one limit level exceedance was recorded in the quarterly impact dolphin monitoring data between December 2016 and February 2017.

Regards,

Mr Jovy Tam
Environmental Team Leader

ERM-Hong Kong, Limited

CONTRACT NO. HY/2012/08
TUEN MUN – CHEK LAP KOK LINK – NORTHERN CONNECTION SUB-SEA TUNNEL SECTION

Impact Dolphin Monitoring
Notification of Exceedance

Log No.	**0212330_ Dec2016/Feb2017_dolphin_STG&ANI_NEL&NWL** **[Total No. of Exceedances = 1 Limit Level Exceedance]**	
Date	December 2016 to February 2017 (monitored) 05 June 2017 (results received by ERM)	
Monitoring Area	Northeast Lantau (NEL) and Northwest Lantau (NWL)	
Parameter(s) with Exceedance(s)	Quarterly encounter rate of dolphin sightings (STG) Quarterly encounter rate of total number of dolphins (ANI)	
Action Levels	North Lantau Social cluster	NEL: STG < 4.2 & ANI < 15.5 or NWL: STG < 6.9 & ANI < 31.3
Limit Levels		NEL: STG < 2.4 & ANI < 8.9 and NWL: STG < 3.9 & ANI < 17.9
Recorded Levels	NEL	STG = 0.0 & ANI = 0.0
	NWL	STG = 3.8 & ANI = 14.52
	One Limit Level Exceedance was recorded in the quarterly impact dolphin monitoring at NEL and NWL between December 2016 and February 2017. The exceedance was reported in the approved *Fortieth Monthly EM&A Report* dated 13 March 2017.	
Statistical Analyses	Further to the review of the available and relevant dolphin monitoring data in the EM&A programme by this Contract, statistical analyses were conducted as follows: • A two-way ANOVA with repeated measures and unequal sample size was conducted using Period (2 levels: baseline vs impact – present quarter, December 2016 to February 2017) and Location (2 levels: NEL and NWL) as fixed factors to examine whether there were any significant differences in the average encounter rates between the baseline and present impact monitoring quarter. By setting $\alpha = 0.05$ as the significance level in the statistical tests, significant differences in STG ($p = 0.0110$) and ANI ($p = 0.0440$) were detected between Periods. • A two-way ANOVA with repeated measures and unequal sample size was conducted using Cumulative Period (2 levels: baseline vs impact – cumulative quarters*, December 2012 to February 2017) and Location (2 levels: NEL and NWL) as fixed factors to examine whether there were any significant differences in the average encounter rates between the baseline and cumulative impact monitoring quarters. By setting $\alpha = 0.00005$ as the significance level in the statistical tests, significant difference in STG ($p = 0.000003$) and in ANI ($p = 0.000001$) between Cumulative Period and Location were detected. *Note: The commencement date under *Contract No. HY/2012/08* is 1 November 2013.	
Works Undertaken (in the monitoring quarter)	In the quarter between December 2016 and February 2017, the major marine works under *Contract No. HY/2012/08* included: • Installation of silt curtain; • Dredging; • Construction of Vertical Seawall; • Band drain installation; and • Filling works.	

Possible Reason for Action or Limit Level Exceedance(s)	The potential factors that may have contributed to the observed exceedance are reviewed below: • Blocking of CWD travelling corridor: The *Monitoring of Marine Mammals in Hong Kong Waters (2015 – 16)* (1) reported that dolphin usage and traveling activities to the northern side of the airport (dolphin traveling corridor) are affected by frequent high-speed ferry traffic from Sky Pier (not related to this Contract), which is likely a major factor resulting in the decrease in dolphin abundances in North Lantau. • Marine works of the Contract: As per the findings from the EIA report (*Section 8.11.9*), the major influences on the Chinese White Dolphin (CWD) *Sousa chinensis* under this Contract are marine traffics, reclamation and dredging works. The Contractor implemented the marine traffic control in the reporting period as per the requirements in the *EP-354/2009/D* and the updated *EM&A Manual*. Most of the vessels of this Contract also worked within the site boundary, in which the area is seldom used by CWD. Disturbance from vessels of this Contract is considered minor. The reclamation and dredging works of this Contract (Phase 2) commenced on 27th December 2016. Dredging works were undertaken within the working rate described in the EP and the approved EIA Report by a closed grab dredger with silt curtains being deployed throughout the dredging period. Filling works were undertaken within 200m leading seawall throughout the filling period and the working rate described in the EP and the approved EIA Report were strictly followed. After reviewing of the daily dredging and filling records, all daily dredging and filling work rates in this quarter are under the maximum work rate described in the EP. During this quarter of dolphin monitoring, no adverse impact on CWD due to the activities under this Contract was observed. • Impact on water quality: According to the findings in the water quality monitoring results at the impact monitoring stations between December 2016 and February 2017, there was no exceedance on WQM. Impact mean levels of depth-averaged SS at all sampling stations during both mid-ebb and mid-flood tides were well below the corresponding ambient levels. The WQM results imply that no unacceptable impact on water quality was associated with the marine works under this Contract, and thus no indirect impacts on marine habitat quality due to change in water quality is observed in this Contract. In view of the above, marine ecological mitigation measures were considered properly implemented, and thus no unacceptable impact on CWD or its habitat was associated with this Contract in this quarter from December 2016 and February 2017.

(1) Hung SKY (2016). Prepared for AFCD. Available at: https://www.afcd.gov.hk/english/conservation/con_mar/con_mar_chi/con_mar_chi_chi/files/Final_Report_2015_16.pdf

Actions Taken / To Be Taken	With reference to the site inspection records in this quarter, the respective marine ecological mitigation measures have been implemented properly by the Contractor throughout the marine works period, including: 1. 250m dolphin exclusion zone; 2. Acoustic decoupling plan; 3. Training to workers; 4. Offsite vessel routing control in accordance with Regular Marine Travel Routes Plan, including routing control within existing and proposed marine park boundaries; 5. Vessels speed limited at 5 knots and 10 knots within existing and proposed marine park boundaries and site boundary respectively; 6. Idling and mooring of working vessels within site boundary; The existing mitigation measures are recommended to be continuously implemented. Furthermore, it is also recommended to reduce the vessels for marine works as much as possible. The ET will monitor for future trends in exceedance(s). A joint team meeting was held on 29 May 2017 for discussion on CWD trend, with attendance of ENPO, HyD, Representatives of Resident Site Staff (RSS), Representatives of Environmental Team (ET) for Contract No. HY/2010/02, HY2011/03, HY/2012/07 and HY/2012/08. The discussion/recommendation as recorded in the minutes of the meeting, which might be relevant to this Contract are summarized below. It was concluded that the HZMB works is one of the contributing factors affecting the dolphins. It was also concluded the contribution of impacts due to the HZMB works as a whole (or individual marine contracts) cannot be quantified or separate from the other stress factors. ENPO presented the interim CWD survey results in mainland waters obtained from Hong Kong-Zhuhai-Macao Bridge Authority that some CWDs that were previously more often sighted in Hong Kong waters have expanded their ranges into mainland waters, and some with reduced usage in Hong Kong waters, while they are partially accounted for the local decline. It was reminded that the ETs shall keep reviewing the implementation status of the dolphin related mitigation measures and remind the contractor to ensure the relevant measures are fully implemented. The ETs were also reminded to update the BMP boundary in the Regular Marine Travel Route Plan. The participants were requested by ENPO to collect and report the marine traffic statistics. It was recommended that the marine works of HZMB projects should be completed as soon as possible so as to reduce the overall duration of impacts and allow the dolphins population to recover as early as possible. It was also suggested that the protection measures (e.g., speed limit control) for the proposed Brothers Marine Park (BMP) shall be brought forward as soon as possible before its establishment so as to provide a better habitat for dolphin recovery. It was also recommended that the marine works footprint and vessels for the marine works should be reduced as much as possible, and vessels idling / mooring in other part of the North Lantau shall be avoided whenever possible. It is noted that even though marine vessels may moor within the mooring site of BMP, commercial activities including loading / unloading / transhipment are not allowed except a permit is obtained. The HZMB works vessels were recommended to avoid the BMP. It was reminded that starting from January 2016, high-speed ferry (HSF) from the SkyPier would be re-routed north to the northern edge of the Sha Chau and Lung Kwu Chau Marine Park that had the highest density of CWD in the NWL. While the HSF would reduce speed to 15 knots, the associated disturbance might still affect CWD in the area. It implied that the CWDs in the area should be closely followed.
Remarks	The results of impact dolphin monitoring, the status of implemented marine ecological mitigation measures are documented in the approved *Thirty-Eighth* to *Fortieth Monthly EM&A Reports*.