

Activity Name	Orig Dur	DWPF Start	DWPF Finish	2016							
				Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
<b>TMCLK - Northern Connection Sub-Sea Tunnel Section</b>											
<b>Contract Dates</b>											
<b>Site Possession Date</b>											
Portions: X1,(N10,11,13 & 14) - Sth Landfall				0	06-Aug-15						
<b>General Submissions</b>											
<b>Environmental</b>											
<b>Environmental Permit Submissions</b>											
<b>Supplementary WMP of C&amp;C Tunnel at Sth.Landfall</b>											
Supplementary WMP of C&C Tunnel at Sth.Landfall				0		28-Jun-14					
<b>Sediment Quality Report/Dumping Permit</b>											
<b>Southern Landfall</b>											
Southern landfall - Commencement of Shaft & C&C Tunnel Dwall				0	03-Oct-15						
Southern Landfall - Retrieval Shaft Excavation to tentative MD layer				0	15-Apr-16						
Southern Landfall - Commencement of C&C Tunnel Excavation				0	03-Mar-16						
Southern Landfall - Commencement of C&C Tunnel to tentative MD layer				0	02-Apr-16						
<b>Sediment Sampling &amp; Testing Plan (SSTP) - if required</b>											
Complete SSTP and Obtain EPD's approval				24	17-Feb-15	23-Mar-15					
<b>Sediment Quality Report (SQR) - if required</b>											
Advance Ground Investigation works for Sediment sampling				24	24-Mar-15	24-Apr-15					
Sediment Sample Testing & Report preparation				120	25-Apr-15	16-Sep-15					
<b>Dumping Permit for Load Dumping (Loading Permit) - if required</b>											
Finalize the application document and submit to EPD - for Dwall				24	20-Jan-15	16-Feb-15					
Notify the results and issue Loading Permit for Local & Cross Boundary Crossing - for Dwall				24	17-Feb-15	23-Mar-15					
<b>Cross Boundary Dumping Permit</b>											
Cross Boundary Dumping Approval				24	18-Feb-16	16-Mar-16					
Issuance of PRC Permit for Cat L, Mp				0		16-Mar-16					
<b>General Design Submissions</b>											
<b>(G6) IFA for Tunnel GBP</b>											
SO's Review				35	29-Apr-14	02-Jun-14					
SO Approval with Condition Received				0		03-Jun-14					
<b>PAYMENT MILESTONE</b>											
<b>Design and Design Checking of the Works</b>											
MS 2.20.3 Approve DDA for Cross Passages by the Supervising Officer by the Supervising Officer				0		31-Mar-15					
MS 2.32 Approve DDA for Approach Ramp Structures to Cut-and-cover Tunnels by the Supervising Officer				0		30-Apr-15					
MS 2.44 Approve DDA for South Ventilation Building by the Supervising Officer				0		30-Jun-15					
MS 2.48 Approve DDA for North Ventilation Building by the Supervising Officer				0		31-Jan-15					
MS 2.51 Submit DDA for Facilities Provision for TCSS				0		29-Nov-14					
MS 2.52 Approve DDA for Facilities Provision for TCSS by the Supervising Officer				0		28-Feb-15					
MS 2.56 Approve DDA for Drainage, Sewerage, Waterworks and Utilities at Southern Landfall by the Supervising Officer				0		30-Apr-15					
MS 2.60 Approve DDA for Drainage, Sewerage, Waterworks and Utilities at Northern Landfall by the Supervising Officer				0		31-Dec-14					
MS 2.69 Submit draft Operation and Maintenance Manual for all Tunnels and Cross Passgaes				0		29-Feb-16					
MS 2.70 Accept Operation and Maintenance Manual for all Tunnels and Cross Passgaes by the Supervising Officer				0		30-Jun-16					
MS 2.71 Submit draft Operation and Maintenance Manual for all works except Tunnels and Cross Passgaes				0		29-Feb-16					
MS 2.72 Accept Operation and Maintenance Manual for all works except Tunnels and Cross Passgaes by the Supervising Offic				0		30-Jun-16					
<b>TBM Tunnel</b>											
MS 3.3.4 Complete walls of retrieval shaft				0		30-Jan-16					
MS 3.3.7 Completion of excavation, support and permanent lining for 1% of the total length (measured on plan) of the Nor				0		31-Dec-15					
MS 3.3.8 Completion of excavation, support and permanent lining for 2% of the total length (measured on plan) of the Nor				0		31-Dec-15					
MS 3.3.9 Completion of excavation, support and permanent lining for 3% of the total length (measured on plan) of the Nor				0		31-Dec-15					
MS 3.3.10 Completion of excavation, support and permanent lining for 4% of the total length (measured on plan) of the No				0		30-Jan-16					
MS 3.3.11 Completion of excavation, support and permanent lining for 5% of the total length (measured on plan) of the No				0		30-Jan-16					
MS 3.3.12 Completion of excavation, support and permanent lining for 6% of the total length (measured on plan) of the No				0		30-Jan-16					
MS 3.3.13 Completion of excavation, support and permanent lining for 7% of the total length (measured on plan) of the No				0		30-Jan-16					
MS 3.3.14 Completion of excavation, support and permanent lining for 8% of the total length (measured on plan) of the No				0		29-Feb-16					
MS 3.3.15 Completion of excavation, support and permanent lining for 9% of the total length (measured on plan) of the No				0		29-Feb-16					
MS 3.3.16 Completion of excavation, support and permanent lining for 10% of the total length (measured on plan) of the N				0		29-Feb-16					
MS 3.3.17 Completion of excavation, support and permanent lining for 11% of the total length (measured on plan) of the N				0		29-Feb-16					
MS 3.3.18 Completion of excavation, support and permanent lining for 12% of the total length (measured on plan) of the N				0		31-Mar-16					
MS 3.3.19 Completion of excavation, support and permanent lining for 13% of the total length (measured on plan) of the N				0		31-Mar-16					
MS 3.3.20 Completion of excavation, support and permanent lining for 14% of the total length (measured on plan) of the N				0		31-Mar-16					
MS 3.3.21 Completion of excavation, support and permanent lining for 15% of the total length (measured on plan) of the N				0		31-Mar-16					
MS 3.3.22 Completion of excavation, support and permanent lining for 16% of the total length (measured on plan) of the N				0		31-Mar-16					
MS 3.3.23 Completion of excavation, support and permanent lining for 17% of the total length (measured on plan) of the N				0		30-Apr-16					
MS 3.3.24 Completion of excavation, support and permanent lining for 18% of the total length (measured on plan) of the N				0		30-Apr-16					
MS 3.3.25 Completion of excavation, support and permanent lining for 19% of the total length (measured on plan) of the N				0		30-Apr-16					

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



Date	Revision	Checked	Approved
12-Feb-14	TMCLKDUGEN-PRG-98507	WYu	SP
08-Apr-14	TMCLKDUGEN-PRG-98507 Rev.B	SP	WYu
28-Aug-14	TMCLKDUGEN-PRG-98507 Rev.C	CLa	WYu
10-Jun-15	TMCLKDUGEN-PRG-98507 Rev.F	WYu	



Activity Name	Orig Dur	DWPF Start	DWPF Finish	2016								
				Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	
MS 4.1.26 Complete excavation for 50% of total length (measured on plan) of all Cross Passages	0		31-Dec-15									
MS 4.1.27 Complete excavation for 100% of total length (measured on plan) of all Cross Passages	0		31-Mar-16		◆ MS 4.1.27 Complete excavation for 100% of total length (measured on plan) of all Cross Passages							
<b>Cut-and-cover Tunnel at Northern Landfall</b>												
MS 4.2.26 Complete 25% of permanent lining and internal structures for all Northern Landfall Cross Passages	0		30-Jul-16						◆ MS 4.2.26 Complete 25% of permanent lining			
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel	0		30-Jul-16						◆ MS 4.2.34 Complete Permanent junction str			
<b>Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall</b>												
MS 5.1.1 Complete 20% of excavation for approach ramp structures	0		31-Mar-16		◆ MS 5.1.1 Complete 20% of excavation for approach ramp structures							
MS 5.1.2 Complete 40% of excavation for approach ramp structures	0		31-Mar-16		◆ MS 5.1.2 Complete 40% of excavation for approach ramp structures							
MS 5.1.3 Complete 60% of excavation for approach ramp structures	0		31-Mar-16		◆ MS 5.1.3 Complete 60% of excavation for approach ramp structures							
MS 5.1.4 Complete 80% of excavation for approach ramp structures	0		30-Apr-16			◆ MS 5.1.4 Complete 80% of excavation for approach ramp structures						
MS 5.1.5 Complete 100% of excavation for approach ramp structures	0		30-Apr-16			◆ MS 5.1.5 Complete 100% of excavation for approach ramp structures						
MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp structure	0		31-Oct-15									
MS 5.1.7 Complete retaining wall foundation for 20% of the total length (measured on plan) of approach ramp structure	0		30-Nov-15									
MS 5.1.8 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ramp structure	0		30-Nov-15									
MS 5.1.9 Complete retaining wall foundation for 40% of the total length (measured on plan) of approach ramp structure	0		31-Dec-15									
MS 5.1.10 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp structure	0		31-Dec-15									
MS 5.1.11 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp structure	0		30-Jan-16									
MS 5.1.12 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp structure	0		30-Jan-16									
MS 5.1.13 Complete retaining wall foundation for 80% of the total length (measured on plan) of approach ramp structure	0		29-Feb-16									
MS 5.1.14 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp structure	0		29-Feb-16									
MS 5.1.15 Complete retaining wall foundation for 100% of the total length (measured on plan) of approach ramp structure	0		31-Mar-16			◆ MS 5.1.15 Complete retaining wall foundation for 100% of the total length (measured on plan) of approach						
<b>South Ventilation Buildings</b>												
MS 7.1.3 Complete 100% of foundation for the ventilation building	0		30-Apr-16			◆ MS 7.1.3 Complete 100% of foundation for the ventilation building						
<b>North Ventilation Buildings</b>												
MS 7.2.1 Complete 100% of cofferdam for excavation	0		31-May-16						◆ MS 7.2.1 Complete 100% of cofferdam for excavation			
MS 7.2.2 Complete 100% of excavation to the formation level	0		31-May-16						◆ MS 7.2.2 Complete 100% of excavation to the formation level			
MS 7.2.4 Complete concreting works of 25% area of the total construction floor area for the ventilation building	0		30-Jul-16							◆ MS 7.2.4 Complete concreting works of 25%		

<b>Construction</b>			
<b>Northern Landfall</b>			
<b>North Reclamation (Phase 1)</b>			
<b>Construction</b>			
<b>Zone B</b>			
<b>Reclamation</b>			
Surcharge Removal - Zone B - (CH598 to 698) stage 1	10	28-Jul-16	08-Aug-16
Surcharge Period - Zone B - (CH648 to 698) stage 2	180	09-Aug-16	04-Feb-17
<b>Box Culvert Extension</b>			
<b>Construction</b>			
<b>Ch000-010 Culvert Outfall</b>			
Installation of temporary bulk head	26	10-Aug-15	08-Sep-15
<b>CH000-150 Land Section</b>			
<b>ELS &amp; Structure</b>			
<b>Pile A43/A41 CJ to Pile A41/A39 CJ</b>			
<b>Box Culvert Structure</b>			
Pile cap construction	10	27-May-15	06-Jun-15
Base slab construction including kicker	6	19-Jun-15	26-Jun-15
Removal of strut S1	4	27-Jun-15	02-Jul-15
System formworks delivery & setup	14	03-Jul-15	18-Jul-15
Walls & top slab construction	6	20-Jul-15	25-Jul-15
Removal of strut S2 & Backfilling up to required level	6	03-Aug-15	08-Aug-15
<b>Pile A45/A43 CJ to Pile A43/A41 CJ</b>			
<b>Box Culvert Structure</b>			
Pile cap construction	10	08-Jun-15	18-Jun-15
Base slab construction including kicker	6	27-Jun-15	04-Jul-15
Removal of strut S1	4	06-Jul-15	09-Jul-15
Walls & top slab construction	6	27-Jul-15	01-Aug-15
Removal of strut S2 & Backfilling up to required level	6	10-Aug-15	15-Aug-15
<b>Pile A47/A45 CJ to Pile A45/A43 CJ</b>			
<b>Box Culvert Structure</b>			
Pile cap construction	10	19-Jun-15	02-Jul-15
Base slab construction including kicker	6	06-Jul-15	11-Jul-15
Removal of strut S1	4	13-Jul-15	16-Jul-15
Walls & top slab construction	6	03-Aug-15	08-Aug-15
Removal of strut S2 & Backfilling up to required level	6	17-Aug-15	22-Aug-15
<b>Pile A49/A47 CJ to Pile A47/A45 CJ</b>			
<b>Box Culvert Structure</b>			
Pile cap construction	10	03-Jul-15	14-Jul-15
Base slab construction including kicker	6	15-Jul-15	21-Jul-15



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Removal of strut S1	4	22-Jul-15	25-Jul-15									
Walls & top slab construction	6	10-Aug-15	15-Aug-15									
Removal of strut S2 & Backfilling up to required level	6	24-Aug-15	29-Aug-15									
<b>Pile A52/A49 CJ to Pile A49/A47 CJ</b>												
<b>Box Culvert Structure</b>												
Pile cap construction	10	22-Jul-15	01-Aug-15									
Base slab construction including kicker	6	03-Aug-15	08-Aug-15									
Removal of strut S1	4	10-Aug-15	13-Aug-15									
Walls & top slab construction	6	17-Aug-15	22-Aug-15									
Removal of strut S2 & Backfilling up to required level	6	31-Aug-15	05-Sep-15									
<b>Ch150-250 Marine Section</b>												
<b>ELS &amp; Structure</b>												
Dewatering well installation Ch180-250	12	19-Jun-15	04-Jul-15									
Dewatering well installation Ch100-180	12	06-Jul-15	18-Jul-15									
1st Pumping test	18	20-Jul-15	08-Aug-15									
Toe grouting Ch100-250	95	07-Sep-15	31-Dec-15									
<b>Pile A41/A39 CJ to Pile A39/A37 CJ</b>												
<b>ELS</b>												
Excavation to 0.5m below strut S1	5	24-Feb-16	29-Feb-16									
Installation of strut S1	5	01-Mar-16	05-Mar-16									
Excavation to FEL	5	07-Mar-16	11-Mar-16									
<b>Box Culvert Structure</b>												
Pile cap construction	10	18-Mar-16	01-Apr-16									
Base slab construction including kicker	6	15-Apr-16	21-Apr-16									
Removal of strut S1	4	22-Apr-16	26-Apr-16									
Sliding formworks 1st assembly	18	27-Apr-16	19-May-16									
Walls & top slab construction	6	20-May-16	26-May-16									
Removal of strut S2 & Backfilling up to required level	6	03-Jun-16	10-Jun-16									
<b>Pile A39/A37 CJ to Pile A37/A35 CJ</b>												
<b>ELS</b>												
Excavation to 0.5m below strut S1	5	01-Mar-16	05-Mar-16									
Installation of strut S1	5	07-Mar-16	11-Mar-16									
Excavation to FEL	5	12-Mar-16	17-Mar-16									
<b>Box Culvert Structure</b>												
Pile cap construction	10	02-Apr-16	14-Apr-16									
Base slab construction including kicker	6	22-Apr-16	28-Apr-16									
Removal of strut S1	4	29-Apr-16	04-May-16									
Walls & top slab construction	6	27-May-16	02-Jun-16									
Removal of strut S2 & Backfilling up to required level	6	11-Jun-16	17-Jun-16									
<b>Pile A37/A35 CJ to Pile A35/A33 CJ</b>												
<b>ELS</b>												
Installation of strut S2	6	26-Feb-16	03-Mar-16									
Excavation to 0.5m below strut S1	5	07-Mar-16	11-Mar-16									
Installation of strut S1	5	12-Mar-16	17-Mar-16									
Excavation to FEL	5	18-Mar-16	23-Mar-16									
<b>Box Culvert Structure</b>												
Pile cap construction	10	15-Apr-16	26-Apr-16									
Base slab construction including kicker	6	29-Apr-16	06-May-16									
Removal of strut S1	4	07-May-16	11-May-16									
Walls & top slab construction	6	03-Jun-16	10-Jun-16									
Removal of strut S2 & Backfilling up to required level	6	18-Jun-16	24-Jun-16									
<b>Pile A35/A33 CJ to Pile A33/P117 CJ</b>												
<b>ELS</b>												
Excavation to 0.5m below strut S2	4	26-Feb-16	01-Mar-16									
Installation of strut S2	6	02-Mar-16	08-Mar-16									
Excavation to 0.5m below strut S1	5	12-Mar-16	17-Mar-16									
Installation of strut S1	5	18-Mar-16	23-Mar-16									
Excavation to FEL	5	24-Mar-16	01-Apr-16									
<b>Box Culvert Structure</b>												
Pile cap construction	10	27-Apr-16	09-May-16									
Base slab construction including kicker	6	10-May-16	17-May-16									
Removal of strut S1	4	18-May-16	21-May-16									
Walls & top slab construction	6	11-Jun-16	17-Jun-16									
Removal of strut S2 & Backfilling up to required level	6	25-Jun-16	02-Jul-16									
<b>Pile A33/P117 CJ to Pile P113/P109 CJ</b>												
<b>ELS</b>												

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



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12-Feb-14	TMCLKDBJGEN-PRG-98507	WYu	SPe
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				Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	
Excavation to 0.5m below strut S1	9	09-Mar-16	18-Mar-16	█								
Installation of strut S1	5	19-Mar-16	24-Mar-16		█							
Excavation to FEL	5	02-Apr-16	08-Apr-16			█						
<b>Box Culvert Structure</b>												
Base slab construction including kicker	6	18-May-16	24-May-16				█					
Removal of strut S1	4	25-May-16	28-May-16					█				
Walls & top slab construction	6	18-Jun-16	24-Jun-16						█			
Removal of strut S2 & Backfilling up to required level	6	04-Jul-16	09-Jul-16							█		
<b>Pile P113/P109 CJ to Pile P105/P101 CJ</b>												
<b>ELS</b>												
Excavation to 0.5m below strut S1	9	17-Mar-16	30-Mar-16	█								
Installation of strut S1	5	31-Mar-16	06-Apr-16		█							
Excavation to FEL	5	09-Apr-16	14-Apr-16			█						
<b>Box Culvert Structure</b>												
Base slab construction including kicker	6	25-May-16	31-May-16				█					
Removal of strut S1	4	01-Jun-16	04-Jun-16					█				
Walls & top slab construction	6	25-Jun-16	02-Jul-16						█			
Removal of strut S2 & Backfilling up to required level	6	11-Jul-16	16-Jul-16							█		
<b>Pile P105/P101 CJ to Pile P97/P93 CJ</b>												
<b>ELS</b>												
Excavation to 0.5m below strut S1	9	29-Mar-16	08-Apr-16	█								
Installation of strut S1	5	09-Apr-16	14-Apr-16		█							
Excavation to FEL	5	15-Apr-16	20-Apr-16			█						
<b>Box Culvert Structure</b>												
Base slab construction including kicker	6	01-Jun-16	07-Jun-16				█					
Removal of strut S1	4	08-Jun-16	13-Jun-16					█				
Walls & top slab construction	6	04-Jul-16	09-Jul-16						█			
Removal of strut S2 & Backfilling up to required level	6	18-Jul-16	23-Jul-16							█		
<b>Pile P97/P93 CJ to Pile P89/P85 CJ</b>												
<b>ELS</b>												
Excavation to 0.5m below strut S1	9	07-Apr-16	16-Apr-16	█								
Installation of strut S1	5	18-Apr-16	22-Apr-16		█							
Excavation to FEL	5	23-Apr-16	28-Apr-16			█						
<b>Box Culvert Structure</b>												
Base slab construction including kicker	6	08-Jun-16	15-Jun-16				█					
Removal of strut S1	4	16-Jun-16	20-Jun-16					█				
Walls & top slab construction	6	11-Jul-16	16-Jul-16						█			
Removal of strut S2 & Backfilling up to required level	6	25-Jul-16	30-Jul-16							█		
<b>Pile P89/P85 CJ to Pile P81/P77 CJ</b>												
<b>ELS</b>												
Excavation to 0.5m below strut S1	9	15-Apr-16	25-Apr-16	█								
Installation of strut S1	5	26-Apr-16	30-Apr-16		█							
Excavation to FEL	5	03-May-16	07-May-16			█						
<b>Box Culvert Structure</b>												
Base slab construction including kicker	6	16-Jun-16	22-Jun-16				█					
Removal of strut S1	4	23-Jun-16	27-Jun-16					█				
Walls & top slab construction	6	18-Jul-16	23-Jul-16						█			
Removal of strut S2 & Backfilling up to required level	6	01-Aug-16	06-Aug-16							█		
<b>Pile P81/P77 CJ to Pile P73/P69 CJ</b>												
<b>ELS</b>												
Excavation to 0.5m below strut S1	9	23-Apr-16	04-May-16	█								
Installation of strut S1	5	05-May-16	10-May-16		█							
Excavation to FEL	5	11-May-16	17-May-16			█						
<b>Box Culvert Structure</b>												
Base slab construction including kicker	6	23-Jun-16	29-Jun-16				█					
Removal of strut S1	4	30-Jun-16	05-Jul-16					█				
Walls & top slab construction	6	25-Jul-16	30-Jul-16						█			
Removal of strut S2 & Backfilling up to required level	6	08-Aug-16	13-Aug-16							█		
<b>Ch250-380 Marine Section</b>												
Installation of Dewatering & Observation Well Ch 250-380	23	04-Nov-15	30-Nov-15	█								
1st Pumping Test & Analysis	17	01-Dec-15	19-Dec-15									
Toe Grouting	106	21-Dec-15	07-May-16				█					
2nd Pumping test & Analysis	25	08-Apr-16	07-May-16					█				
Remaining toe grouting Ch250-380	51	09-May-16	09-Jul-16						█			
<b>Miscellaneous works</b>												
<b>Inspection Manhole (IM)</b>												

- █ Planned Bar
- █ Planned Bar - Critical
- ◆ Planned Milestone
- █ Progress bar
- ◆ Progress Milestone



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Activity Name	Orig Dur	DWPF Start	DWPF Finish	2016									
				Mar	Apr	May	Jun	Jul	Aug	Sep	Oct		
Inspection Manhole IM-05 to IM-08 & backfilling to +6.0mPD	18	15-Aug-16	03-Sep-16										
<b>North Launching Shaft</b>													
<b>Design Submission</b>													
<b>(C1) DDA for North Approach Ramp Permanent Structure</b>													
IPs Review	28	23-Oct-14	19-Nov-14										
IP's No Objection Received	0		19-Nov-14										
SO's Review	35	23-Oct-14	26-Nov-14										
SO Approval with Condition Received	0		26-Nov-14										
<b>North Ventilation Shaft</b>													
<b>Construction</b>													
<b>North Ventilation Shaft Structure</b>													
NVS - ML03 Tunnel Structure	47	24-May-16	20-Jul-16										
NVS - ML02 Tunnel Structure	44	05-Apr-16	27-May-16										
<b>TMCLK VO-008 - Construction of Viaduct Foundations at Portion N6A</b>													
<b>Viaduct Pile Cap</b>													
<b>Construction</b>													
<b>Pier G1c</b>													
Pile Cap G1c - Preparation for ELS	6	24-Oct-14	30-Oct-14										
Pile Cap G1c - Removal of Existing ground slab	6	31-Oct-14	06-Nov-14										
Pile Cap G1c - Excavation & ELS Installation	12	07-Nov-14	20-Nov-14										
Pile Cap G1c - Blinding Concrete	3	21-Nov-14	24-Nov-14										
Pile Cap G1c - Rebar & Concreting	18	25-Nov-14	15-Dec-14										
Pile Cap G1c - Backfilling & Temp Reinstatement	6	16-Dec-14	22-Dec-14										
<b>Pier H1c</b>													
Pile Cap H1c - Preparation for ELS	6	02-Nov-15	07-Nov-15										
Pile Cap H1c - Removal of Existing ground slab	6	09-Nov-15	14-Nov-15										
Pile Cap H1c - Excavation & ELS Installation	12	16-Nov-15	28-Nov-15										
Pile Cap H1c - Blinding Concrete	3	30-Nov-15	02-Dec-15										
<b>North Approach TBM Tunnelling &amp; Cross Passage</b>													
<b>Construction</b>													
<b>North Approach Tunnel Internal Structure - NB</b>													
NB - North TBM Tunnel - Invert Backfilling (Ch6870 to 6688 - 182m) Stage 1	77	06-Dec-15	24-Feb-16										
NB - North TBM Tunnel - Invert Backfilling (Ch6688 to 6560 - 128m) Stage 1	54	01-Apr-16	26-May-16										
NB - North TBM Tunnel - Invert Precast Gallery Installation (Ch6870 to 6688 - 182m)	77	29-Dec-15	18-Mar-16										
NB - North TBM Tunnel - Invert Precast Gallery Installation (Ch6688 to 6560 - 128m)	54	13-Apr-16	07-Jun-16										
NB - North TBM Tunnel - Invert Backfilling (Ch6925 to 6870 - 55m) Stage 2	14	05-Jan-16	19-Jan-16										
NB - North TBM Tunnel - Invert Backfilling (Ch6870 to 6688 - 182m) Stage 2	77	19-Jan-16	11-Apr-16										
NB - North TBM Tunnel - Invert Backfilling (Ch6688 to 6560 - 128m) Stage 2	54	28-Apr-16	23-Jun-16										
CP55 - Excavation & Lining completion	0		14-Jun-16										
CP53 - Excavation & Lining completion	0		16-Mar-16										
CP52 - Excavation & Lining completion	0		22-Apr-16										
CP50 - Excavation & Lining completion	0		26-Jul-16										
<b>North Approach Tunnel Internal Structure - SB</b>													
SB - North TBM Tunnel - Invert Backfilling (Ch6870 to 6688 - 182m)	77	01-Jan-16	21-Mar-16										
SB - North TBM Tunnel - Invert Backfilling (Ch6688 to 6560 - 128m)	54	21-Mar-16	18-May-16										
<b>North Approach Cross Passage</b>													
<b>CP55 - Traditional Method</b>													
CP Setup	6	21-Mar-16	31-Mar-16										
1st Segment Opening	7	31-Mar-16	09-Apr-16										
CP Excavation	14	09-Apr-16	26-Apr-16										
CP Lining	14	26-Apr-16	13-May-16										
2nd Segment Opening	7	13-May-16	23-May-16										
CP Finishing & Demobilization	18	23-May-16	14-Jun-16										
<b>CP54 - Traditional Method</b>													
CP Setup	6	14-Jun-16	21-Jun-16										
1st Segment Opening	7	21-Jun-16	29-Jun-16										
CP Excavation	14	29-Jun-16	16-Jul-16										
CP Lining	14	16-Jul-16	02-Aug-16										
2nd Segment Opening	7	02-Aug-16	10-Aug-16										
CP Finishing & Demobilization	18	10-Aug-16	31-Aug-16										
<b>CP53 - Pipe Jacking Method</b>													
CP - Pipe Jacking TBM - Delivery, Assembly & Setup	23	05-Jan-16	01-Feb-16										
CP - Pipe Jacking Method - Break-in, Excavation & Lining Installation	9	01-Feb-16	10-Feb-16										
CP - Pipe Jacking Method - Break out & Pipe Jacking TBM Removal	10	10-Feb-16	20-Feb-16										
CP - Waterproofing, Finishing	21	20-Feb-16	16-Mar-16										
<b>CP52 - Pipe Jacking Method</b>													
CP52 Platform Available from ML03 North Approach Tunnel Backfilling	0	30-Jan-16											

■ 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 29-May-16



Date	Revision	Checked	Approved
12-Feb-14	TMCLKDBJGEN-PRG-98507	WYu	SPe
08-Apr-14	TMCLKDBJGEN-PRG-98507 Rev.B	SPe	WYu
28-Aug-14	TMCLKDBJGEN-PRG-98507 Rev.C	CLa	WYu
10-Jun-15	TMCLKDBJGEN-PRG-98507 Rev.F	WYu	

Activity Name	Orig Dur	DWPF Start	DWPF Finish	2016						
				Mar	Apr	May	Jun	Jul	Aug	Sep
CP - Pipe Jacking TBM - Delivery, Assembly & Setup	23	01-Feb-16	05-Mar-16	■ CP - Pipe Jacking TBM - Delivery, Assembly & Setup						
CP - Pipe Jacking Method - Break-in, Excavation & Lining Installation	9	05-Mar-16	14-Mar-16	■ CP - Pipe Jacking Method - Break-in, Excavation & Lining Installation						
CP - Pipe Jacking Method - Break out & Pipe Jacking TBM Removal	10	14-Mar-16	24-Mar-16	■ CP - Pipe Jacking Method - Break out & Pipe Jacking TBM Removal						
CP Finishing & Demobilization	21	24-Mar-16	22-Apr-16	■ CP Finishing & Demobilization						
<b>CP51 - Traditional Method</b>										
CP51 Platform Available from ML03 North Approach Tunnel Backfilling	0	31-Mar-16		◆ CP51 Platform Available from ML03 North Approach Tunnel Backfilling						
CP51 Platform Available from ML02 North Approach Tunnel Backfilling	0	10-Mar-16		◆ CP51 Platform Available from ML02 North Approach Tunnel Backfilling						
CP Excavation	14	14-Sep-16	28-Sep-16	■ CP Excavation						
CP Lining	14	28-Sep-16	12-Oct-16	■ CP Lining						
<b>CP50 - Pipe Jacking Method</b>										
CP50 Platform Available from ML03 North Approach Tunnel Backfilling	0	16-May-16		◆ CP50 Platform Available from ML03 North Approach Tunnel Backfilling						
CP50 Platform Available from ML02 North Approach Tunnel Backfilling	0	09-Apr-16		◆ CP50 Platform Available from ML02 North Approach Tunnel Backfilling						
CP Setup	23	16-May-16	11-Jun-16	■ CP Setup						
CP - Pipe Jacking Method - Break-in, Excavation & Lining Installation	9	12-Jun-16	21-Jun-16	■ CP - Pipe Jacking Method - Break-in, Excavation & Lining Installation						
CP - Pipe Jacking Method - Break out & Pipe Jacking TBM Removal	10	22-Jun-16	01-Jul-16	■ CP - Pipe Jacking Method - Break out & Pipe Jacking TBM Removal						
CP Finishing & Demobilization	21	02-Jul-16	26-Jul-16	■ CP Finishing & Demobilization						
<b>North Ventilation Building</b>										
<b>Design Submission</b>										
<b>(A11) Submissions to Design Advisory Panel of ArchSD</b>										
ArchSD's comment	30	10-Jun-14	09-Jul-14							
<b>(I1) DDA for North Vent. Bldgs. GBP &amp; Arch. Submission</b>										
IPs Review	28	21-Aug-14	17-Sep-14							
IP's No Objection Received	0		17-Sep-14							
SO's Review	35	21-Aug-14	24-Sep-14							
SO Approval with Condition Received	0		24-Sep-14							
<b>(I1) DDA for North &amp; South Vent. Bldg. ABWF works</b>										
Preparation of DDA North & South ABWF	18	25-Sep-14	17-Oct-14							
Review & Comment by JV	24	18-Oct-14	14-Nov-14							
Designer prepare DDA	15	15-Nov-14	02-Dec-14							
Formal Submission of DDA to ICE/ IPs	0		02-Dec-14							
Advanced Submission to SO	0		02-Dec-14							
IPs/ SO's Advance Comments/ ICE Comments	28	03-Dec-14	30-Dec-14							
Comments Received	0		30-Dec-14							
Designer to Reply RTC + Update Submission	21	31-Dec-14	24-Jan-15							
<b>(I2) DDA for North Vent. Bldgs. Structural Design incl. Vent. Connections</b>										
ICE Approval & Issue Check Cert	12	24-Dec-14	09-Jan-15							
Submit ICE Check Cert to SO	6	10-Jan-15	16-Jan-15							
IPs Review	28	24-Dec-14	20-Jan-15							
IP's No Objection Received	0		20-Jan-15							
SO's Review	35	24-Dec-14	27-Jan-15							
SO Approval with Condition Received	0		27-Jan-15							
<b>(I3) DDA for North &amp; South Vent. Bldgs. Service and E&amp;M Provision</b>										
Designer to Reply RTC + Update Submission	21	18-Dec-14	14-Jan-15							
Submit Updated DDA to SO/ ICE/ IPs	0	15-Jan-15								
ICE Approval & Issue Check Cert	12	15-Jan-15	28-Jan-15							
Submit ICE Check Cert to SO	6	29-Jan-15	04-Feb-15							
IPs Review	28	15-Jan-15	11-Feb-15							
IP's No Objection Received	0		11-Feb-15							
SO's Review	35	15-Jan-15	18-Feb-15							
SO Approval with Condition Received	0		18-Feb-15							
<b>(C3) DDA for North Vent Shaft &amp; Duct Permanent Structure</b>										
ICE Approval & Issue Check Cert	12	22-Nov-14	05-Dec-14							
Submit ICE Check Cert to SO	6	06-Dec-14	12-Dec-14							
IPs Review	28	22-Nov-14	19-Dec-14							
IP's No Objection Received	0		19-Dec-14							
SO's Review	35	22-Nov-14	26-Dec-14							
SO Approval with Condition Received	0		27-Dec-14							
<b>Construction</b>										
Substructure	120	04-Jul-16	24-Nov-16	■						
<b>North Surface Roadworks, Utility &amp; Drainage works</b>										
<b>Design Submission</b>										
<b>(A20) DDA for Traffic Sign, Road Marking, Street Furnitures, Sign Gantry &amp; etc</b>										
SO's Review	35	11-Dec-14	14-Jan-15							
SO Approval with Condition Received	0		14-Jan-15							
<b>(C2) DDA for Sewerage, Drainage, Waterworks &amp; Utility works for North Landfall</b>										

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



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12-Feb-14	TMCLKDBJGEN-PRG-08507	WYu	SPe
08-Apr-14	TMCLKDBJGEN-PRG-08507 Rev. B	SPe	WYu
28-Aug-14	TMCLKDBJGEN-PRG-08507 Rev. C	CLa	WYu
10-Jun-15	TMCLKDBJGEN-PRG-08507 Rev. F	WYu	



Activity Name	Orig Dur	DWPF Start	DWPF Finish	2016							
				Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
IPs Review	28	08-Nov-14	05-Dec-14								
IP's No Objection Received	0		05-Dec-14								
SO's Review	35	08-Nov-14	12-Dec-14								
SO Approval with Condition Received	0		12-Dec-14								
<b>Sub-sea Tunnel</b>											
<b>Sub-sea TBM Tunnelling</b>											
<b>Major Procurement</b>											
<b>Precast Segment ID12.40 - Production for Sub-sea TBM Tunnel</b>											
ID12.40 TBM Segment Ring Fabrication - 12 rings per day	300	22-Nov-14	19-Dec-15								
<b>Design Submission</b>											
<b>(B6) Risk Assessment of Submarine Cable - Tunnelling Works</b>											
CLP Review (4 weeks)	28	17-Mar-15	13-Apr-15								
CLP Comment Received	0		13-Apr-15								
SO's Condition Approval	35	12-Mar-15	15-Apr-15								
<b>(G1) DDA for TBM Tunnel Lining Structural Design - Sub-sea tunnel</b>											
Sub-sea TBM Tunnel Segment - Fabrication	265	06-Oct-14	29-Aug-15								
<b>(G3) DDA for TBM Tunnel Internal Structures (Sub-sea)</b>											
Sub-sea Tunnel - Precast Gallery Fabrication	244	22-Jan-15	21-Nov-15								
<b>Construction</b>											
<b>Sub-sea TBM Tunnel - NB ID12.2m - S881</b>											
NB TBM Change diameter at North Ventilation Shaft	87	30-Dec-15	01-Apr-16								
NB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6522 to 6500 - 22m)	5	01-Apr-16	06-Apr-16								
NB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6500 to 6430 - 70m)	15	06-Apr-16	21-Apr-16								
NB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6430 to 6350 - 80m)	17	21-Apr-16	08-May-16								
NB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6350 to 6300 - 50m)	10	08-May-16	19-May-16								
NB - Sub-sea TBM Tunnel - CDG+Boulder with Saturation (Ch6300 to 6260 - 40m)	5	19-May-16	24-May-16								
NB - Sub-sea TBM Tunnel - CDG with Saturation (Ch6260 to 6240 - 20m)	2	24-May-16	26-May-16								
NB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6240 to 6175 - 65m)	11	26-May-16	06-Jun-16								
NB - Sub-sea TBM Tunnel - CDG+Boulder with Saturation (Ch6175 to 6135 - 40m)	5	06-Jun-16	11-Jun-16								
NB - Sub-sea TBM Tunnel - CDG with Saturation (Ch6135 to 6100 - 35m)	3	11-Jun-16	14-Jun-16								
NB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6100 to 6050 - 50m)	9	14-Jun-16	24-Jun-16								
NB - Sub-sea TBM Tunnel - CDG+Boulder with Saturation (Ch6050 to 6010 - 40m)	5	24-Jun-16	29-Jun-16								
NB - Sub-sea TBM Tunnel - CDG with Saturation (Ch6010 to 5830 - 180m)	14	29-Jun-16	13-Jul-16								
NB - Sub-sea TBM Tunnel - CDG+Boulder with Saturation (Ch5830 to 5810 - 20m)	2	13-Jul-16	16-Jul-16								
NB - Sub-sea TBM Tunnel - Transition with Saturation (Ch5810 to 5740 - 70m)	12	16-Jul-16	28-Jul-16								
NB - Sub-sea TBM Tunnel - CDG+Boulder with Saturation (Ch5740 to 5550 - 190m)	22	28-Jul-16	20-Aug-16								
NB - Sub-sea TBM Tunnel - CDG with Saturation (Ch5550 to 5330 - 220m)	18	20-Aug-16	07-Sep-16								
<b>Sub-sea TBM Tunnel - SB ID12.2m - S882</b>											
SB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6451 to 6371 - 80m)	17	30-Jan-16	19-Feb-16								
SB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6371 to 6321 - 50m)	10	19-Feb-16	29-Feb-16								
SB - Sub-sea TBM Tunnel - CDG+Boulder with Saturation (Ch6321 to 6281 - 40m)	5	29-Feb-16	05-Mar-16								
SB - Sub-sea TBM Tunnel - Steel Bell dismantling & Reconnect for NVS supply	27	05-Mar-16	04-Apr-16								
SB - Sub-sea TBM Tunnel - CDG with Saturation (Ch6281 to 6261 - 20m)	2	04-Apr-16	06-Apr-16								
SB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6261 to 6196 - 65m)	11	06-Apr-16	17-Apr-16								
SB - Sub-sea TBM Tunnel - CDG+Boulder with Saturation (Ch6196 to 6156 - 40m)	5	17-Apr-16	22-Apr-16								
SB - Sub-sea TBM Tunnel - CDG with Saturation (Ch6156 to 6121 - 35m)	3	22-Apr-16	25-Apr-16								
SB - Sub-sea TBM Tunnel - Transition with Saturation (Ch6121 to 6071 - 50m)	9	25-Apr-16	04-May-16								
SB - Sub-sea TBM Tunnel - CDG+Boulder with Saturation (Ch6071 to 6031 - 40m)	5	04-May-16	09-May-16								
SB - Sub-sea TBM Tunnel - CDG with Saturation (Ch6031 to 5851 - 180m)	14	09-May-16	24-May-16								
SB - Sub-sea TBM Tunnel - CDG+Boulder with Saturation (Ch5851 to 5831 - 20m)	2	24-May-16	26-May-16								
SB - Sub-sea TBM Tunnel - Transition with Saturation (Ch5831 to 5761 - 70m)	12	26-May-16	07-Jun-16								
SB - Sub-sea TBM Tunnel - CDG+Boulder with Saturation (Ch5761 to 5571 - 190m)	22	07-Jun-16	30-Jun-16								
SB - Sub-sea TBM Tunnel - CDG with Saturation (Ch5571 to 5351 - 220m)	18	30-Jun-16	19-Jul-16								
SB - Sub-sea TBM Tunnel - CDG with Saturation (Ch5351 to 4971 - 380m)	30	19-Jul-16	19-Aug-16								
SB - Sub-sea TBM Tunnel - CDG with Saturation (Ch4971 to 4891 - 80m)	6	19-Aug-16	25-Aug-16								
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch4891 to 4771 - 120)	8	25-Aug-16	02-Sep-16								
<b>Sub-sea TBM Tunnel - NB - Precast Invert Gallery</b>											
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP48	16	26-May-16	11-Jun-16								
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP47	12	11-Jun-16	24-Jun-16								
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP46	9	24-Jun-16	03-Jul-16								
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP45	10	03-Jul-16	13-Jul-16								
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP44	14	13-Jul-16	28-Jul-16								
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP43	11	28-Jul-16	08-Aug-16								
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP42	11	08-Aug-16	20-Aug-16								

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



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12-Feb-14	TMCLKDBJGEN-PRG-08507	WYu	SP
08-Apr-14	TMCLKDBJGEN-PRG-08507 Rev.B	SP	WYu
28-Aug-14	TMCLKDBJGEN-PRG-08507 Rev.C	CLa	WYu
10-Jun-15	TMCLKDBJGEN-PRG-08507 Rev.F	WYu	



Activity Name	Orig Dur	DWPF Start	DWPF Finish	2016									
				Mar	Apr	May	Jun	Jul	Aug	Sep	Oct		
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP41	9	20-Aug-16	29-Aug-16										
<b>Sub-sea TBM Tunnel - SB - Precast Invert Gallery</b>													
SB - ISIG Assembly for Sub-sea TBM Tunnel	7	15-Jan-16	22-Jan-16										
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP48	14	04-Apr-16	18-Apr-16										
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP47	11	18-Apr-16	29-Apr-16										
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP46	11	29-Apr-16	10-May-16										
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP45	8	10-May-16	19-May-16										
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP44	8	19-May-16	27-May-16										
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP43	15	27-May-16	11-Jun-16										
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP42	13	11-Jun-16	25-Jun-16										
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP41	10	25-Jun-16	05-Jul-16										
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP40	8	05-Jul-16	13-Jul-16										
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP39	9	13-Jul-16	23-Jul-16										
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP38	7	23-Jul-16	30-Jul-16										
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP37	8	30-Jul-16	07-Aug-16										
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP36	8	07-Aug-16	16-Aug-16										
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP35	7	16-Aug-16	23-Aug-16										
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP34	7	23-Aug-16	30-Aug-16										
<b>Sub-sea Tunnel Cross Passage &amp; Internal Structure</b>													
<b>Design Submission</b>													
<b>(G4) DDA for Cross Passage - Permanent works - incl. Geotechnical Assessment - Sub-sea tunnel</b>													
IPs/ SO's Advance Comments/ ICE Comments	28	21-Dec-14	17-Jan-15										
Comments Received	0		17-Jan-15										
Designer to Reply RiC + Update Submission	21	19-Jan-15	11-Feb-15										
Submit Updated DDA to SO/ ICE/ IPs	0	12-Feb-15											
ICE Approval & Issue Check Cert	12	12-Feb-15	04-Mar-15										
Submit ICE Check Cert to SO	6	05-Mar-15	11-Mar-15										
IPs Review	28	12-Feb-15	11-Mar-15										
IP's No Objection Received	0		11-Mar-15										
SO's Review	35	12-Feb-15	18-Mar-15										
SO Approval with Condition Received	0		18-Mar-15										
<b>Construction</b>													
<b>Sub-sea Tunnel Cross Passage</b>													
<b>CP48 - ML03 - Ch6489</b>													
CP - Pipe Jacking Method - Setup & Assembly	23	20-Jun-16	18-Jul-16										
CP - Piping Jacking Method - Break-in & Excavation	10	18-Jul-16	28-Jul-16										
CP - Pipe Jacking Method - Break-out & Demobilization	11	28-Jul-16	08-Aug-16										
CP - Remaining Internal Structure & Finishing	21	08-Aug-16	01-Sep-16										
<b>CP47 - ML03 - Ch6390</b>													
CP - Pipe Jacking Method - Setup & Assembly	23	24-Jun-16	22-Jul-16										
CP - Piping Jacking Method - Break-in & Excavation	10	22-Jul-16	01-Aug-16										
CP - Pipe Jacking Method - Break-out & Demobilization	12	01-Aug-16	13-Aug-16										
CP - Remaining Internal Structure & Finishing	21	13-Aug-16	07-Sep-16										
<b>CP46 - ML03 - Ch6292</b>													
CP - Pipe Jacking Method - Setup & Assembly	23	12-Jul-16	08-Aug-16										
CP - Pipe Jacking Method - Break-in & Excavation	10	08-Aug-16	18-Aug-16										
CP - Pipe Jacking Method - Break-out & Demobilization	12	18-Aug-16	30-Aug-16										
<b>CP45 - ML03 - Ch6193</b>													
CP - Pipe Jacking Method - Setup & Assembly	23	18-Jul-16	13-Aug-16										
CP - Pipe Jacking Method - Break-in & Excavation	10	13-Aug-16	23-Aug-16										
CP - Pipe Jacking Method - Break-out & Demobilization	12	23-Aug-16	04-Sep-16										
<b>CP44 - ML03 - Ch6095</b>													
CP - Pipe Jacking Method - Setup & Assembly	23	06-Aug-16	02-Sep-16										
<b>CP43 - ML03 - Ch5996</b>													
CP - Pipe Jacking Method - Setup & Assembly	23	11-Aug-16	07-Sep-16										
<b>Sub-sea TBM Tunnel - NB - Remaining Internal Structure</b>													
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP48	5	08-Aug-16	13-Aug-16										
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP47	5	13-Aug-16	19-Aug-16										
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48	4	13-Aug-16	18-Aug-16										
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47	4	19-Aug-16	23-Aug-16										
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48	4	18-Aug-16	22-Aug-16										
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47	4	23-Aug-16	27-Aug-16										
<b>Sub-sea TBM Tunnel - SB - Remaining Internal Structure</b>													
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP48	5	08-Aug-16	13-Aug-16										
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP47	5	13-Aug-16	19-Aug-16										

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



Date	Revision	Checked	Approved
12-Feb-14	TMCLKDBUGEN-PRG-09507	WYU	SPB
08-Apr-14	TMCLKDBUGEN-PRG-09507 Rev.B	SPB	WYU
28-Aug-14	TMCLKDBUGEN-PRG-09507 Rev.C	CLa	WYU
10-Jun-15	TMCLKDBUGEN-PRG-09507 Rev.F	WYU	

Activity Name	Orig Dur	DWPF Start	DWPF Finish	2016									
				Mar	Apr	May	Jun	Jul	Aug	Sep	Oct		
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48	5	13-Aug-16	19-Aug-16										
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47	5	19-Aug-16	24-Aug-16										
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP48	5	19-Aug-16	24-Aug-16										
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47	5	24-Aug-16	29-Aug-16										
<b>Southern Landfall</b>													
<b>South Cut &amp; Cover Tunnel</b>													
<b>Design Submission</b>													
<b>(E2) DDA for South C&amp;C Box &amp; Approach Ramp</b>													
Review & Comment by JV	18	09-Dec-14	31-Dec-14										
Designer prepare DDA	10	02-Jan-15	13-Jan-15										
Formal Submission of DDA to ICE/ IPs	0		13-Jan-15										
Advanced Submission to SO	0		13-Jan-15										
IPs/ SO's Advance Comments/ ICE Comments	28	14-Jan-15	10-Feb-15										
Comments Received	0		10-Feb-15										
Designer to Reply Rtc + Update Submission	21	11-Feb-15	13-Mar-15										
Submit Updated DDA to SO/ ICE/ IPs	0	14-Mar-15											
ICE Approval & Issue Check Cert	18	14-Mar-15	08-Apr-15										
Submit ICE Check Cert to SO	6	09-Apr-15	15-Apr-15										
IPs Review	28	14-Mar-15	10-Apr-15										
SO's Review	35	14-Mar-15	17-Apr-15										
<b>Method Statement Submission</b>													
<b>Method Statement of Construction Methodology of C&amp;C Tunnels</b>													
Preparation Method Statement for C&C Tunnels	25	28-Mar-15	30-Apr-15										
Submit Method Statement to SO	0		30-Apr-15										
SO Reviews & Comments	28	01-May-15	28-May-15										
Re-submission	18	29-May-15	18-Jun-15										
SO's Review	28	19-Jun-15	16-Jul-15										
<b>Construction</b>													
South C&C Tunnel - Diaphragm Wall	120	03-Oct-15	02-Mar-16										
C&C Tunnel - 1st 85m - Excavation by ramp	23	03-Mar-16	01-Apr-16										
C&C Tunnel - 1st 85m - Excavation by vertical mean	11	02-Apr-16	15-Apr-16										
C&C Tunnel - 1st 85m - Tunnel Structure	95	16-Apr-16	09-Aug-16										
C&C Tunnel - 1st 85m - Backfilling	4	10-Aug-16	13-Aug-16										
C&C Tunnel - 2nd 85m - Excavation by ramp	17	30-Apr-16	21-May-16										
C&C Tunnel - 2nd 85m - Excavation by vertical mean	18	23-May-16	13-Jun-16										
C&C Tunnel - 2nd 85m - Tunnel Structure	83	14-Jun-16	20-Sep-16										
C&C Tunnel - 3rd 85m - Excavation by ramp	18	23-May-16	13-Jun-16										
C&C Tunnel - 3rd 85m - Excavation by vertical mean	25	14-Jun-16	13-Jul-16										
C&C Tunnel - 3rd 85m - Tunnel Structure	83	26-Jul-16	02-Nov-16										
C&C Tunnel - 4th 85m - Excavation by ramp	21	30-Jun-16	25-Jul-16										
C&C Tunnel - 4th 85m - Excavation by vertical mean	35	26-Jul-16	03-Sep-16										
C&C Tunnel - 5th 85m - Excavation by ramp	23	26-Jul-16	20-Aug-16										
C&C Tunnel - 5th 85m - Excavation by vertical mean	44	22-Aug-16	14-Oct-16										
C&C Tunnel - 6th 85m - Excavation by ramp	27	22-Aug-16	22-Sep-16										
<b>South Retrieval Shaft</b>													
<b>Design Submission</b>													
<b>(F4) Gantry Crane Support/Foundations in Southern Landfall</b>													
Preparation of IFA Gantry Crane / Foundation	18	27-Jul-15	15-Aug-15										
Review & Comment by JV	18	17-Aug-15	05-Sep-15										
Designer prepare IFA	10	07-Sep-15	17-Sep-15										
Formal Submission of IFA to ICE/ IPs	0		17-Sep-15										
Advanced Submission to SO	0		17-Sep-15										
IPs/ SO's Advance Comments/ ICE Comments	28	18-Sep-15	15-Oct-15										
<b>Method Statement Submission</b>													
<b>Method Statement of Construction Methodology of Retrieval Shaft</b>													
Preparation Method Statement for Retrieval Shaft	25	24-Aug-15	21-Sep-15										
Submit Method Statement to SO	0		21-Sep-15										
SO Reviews & Comments	28	22-Sep-15	19-Oct-15										
Re-submission	18	20-Oct-15	10-Nov-15										
SO's Review	28	11-Nov-15	08-Dec-15										
<b>Construction</b>													
South Landfall GI Works/DW Setting Up	48	06-Aug-15	02-Oct-15										
South Retrieval Shaft - Diaphragm Wall	98	03-Oct-15	29-Jan-16										
Retrieval Shaft - Excavation - Soft by vertical mean (Fill material)	52	03-Feb-16	14-Apr-16										

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



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10-Jun-15	TMCLKDBJGEN-PRG-98507 Rev.F	WYu	

Activity Name	Orig Dur	DWPF Start	DWPF Finish	2016								
				Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	
Retrieval Shaft - Excavation - Soft (other than Fill)	140	15-Apr-16	30-Sep-16									Retrieval Sh
<b>South Approach Ramp</b>												
<b>Construction</b>												
Approach Ramp (CH1580-1850) - Pipe Pile/Sheet Piles Wall	126	03-Oct-15	09-Mar-16									
Approach Ramp (CH1580-1850) - Tension Piles	103	03-Oct-15	04-Feb-16									
Approach Ramp (CH1580-1850) - Pile Test	24	05-Feb-16	10-Mar-16									
<b>South Ventilation Building</b>												
<b>Design Submission</b>												
<b>(I1) DDA for South Vent.Bldg. GBP &amp; Arch.Submission</b>												
ICE Approval & Issue Check Cert	18	22-Dec-14	14-Jan-15									
Submit ICE Check Cert to SO	6	15-Jan-15	21-Jan-15									
IPs Review	28	22-Dec-14	18-Jan-15									
IP's No Objection Received	0		18-Jan-15									
SO's Review	35	22-Dec-14	25-Jan-15									
SO Approval with Condition Received	0		26-Jan-15									
<b>(I2) DDA for South Vent.Bldg. Foundation Design</b>												
Review & Comment by JV	18	27-Apr-15	18-May-15									
Designer prepare DDA	10	19-May-15	30-May-15									
Formal Submission of DDA to ICE/ IPs	0		30-May-15									
Advanced Submission to SO	0		30-May-15									
IPs/ SO's Advance Comments/ ICE Comments	28	31-May-15	27-Jun-15									
Comments Received	0		27-Jun-15									
Designer to Reply RTC + Update Submission	21	29-Jun-15	23-Jul-15									
Submit Updated DDA to SO/ ICE/ IPs	0	24-Jul-15										
ICE Approval & Issue Check Cert	18	24-Jul-15	13-Aug-15									
IPs Review	28	24-Jul-15	20-Aug-15									
SO's Review	35	24-Jul-15	27-Aug-15									
<b>(I2) DDA for South Vent.Bldg. Structural Design incl. Vent. Connections</b>												
Review & Comment by JV	18	18-Feb-15	17-Mar-15									
Designer prepare DDA	10	18-Mar-15	28-Mar-15									
Formal Submission of DDA to ICE/ IPs	0		28-Mar-15									
Advanced Submission to SO	0		28-Mar-15									
IPs/ SO's Advance Comments/ ICE Comments	28	29-Mar-15	25-Apr-15									
Comments Received	0		25-Apr-15									
Designer to Reply RTC + Update Submission	21	27-Apr-15	21-May-15									
Submit Updated DDA to SO/ ICE/ IPs	0	22-May-15										
ICE Approval & Issue Check Cert	18	22-May-15	12-Jun-15									
IPs Review	28	22-May-15	18-Jun-15									
SO's Review	35	22-May-15	25-Jun-15									
<b>(J1) DDA Temp. works for Construction of Sth. Vent. Bldg.</b>												
Designer to Reply RTC + Update Submission	21	24-Aug-15	16-Sep-15									
Submit Updated DDA to SO/ ICE/ IPs	0	17-Sep-15										
ICE Approval & Issue Check Cert	12	17-Sep-15	02-Oct-15									
Submit ICE Check Cert to SO	6	03-Oct-15	09-Oct-15									
IPs Review	28	17-Sep-15	14-Oct-15									
IP's No Objection Received	0		14-Oct-15									
SO's Review	35	17-Sep-15	21-Oct-15									
SO Approval with Condition Received	0		22-Oct-15									
<b>Construction</b>												
Mobilization & Setting Up Piling Rigs	64	06-Aug-15	22-Oct-15									
S - Piling (Socket H-piles)	132	23-Oct-15	08-Apr-16									
S - Pile Test	24	09-Apr-16	07-May-16									
S - Sheet Piling	48	23-Oct-15	17-Dec-15									
S - Excavation	100	09-May-16	05-Sep-16									
<b>South Surface Roadworks, Utility &amp; Drainage works</b>												
<b>Design Submission</b>												
<b>(E1) AIP - Southern Landfall Seawall Modification</b>												
SO Review (35 Days)	35	03-Mar-17	06-Apr-17									
SO Approval with Condition Received	0		06-Apr-17									
<b>(E1) DDA - Southern Landfall Seawall Modification</b>												
Preparation of DDA Modification of Seawall at Sth Landfall	18	07-Apr-17	02-May-17									
Review & Comment by JV	18	04-May-17	24-May-17									
Designer prepare DDA	10	25-May-17	06-Jun-17									
Formal Submission of DDA to ICE/ IPs	0		06-Jun-17									

- Planned Bar
- Planned Bar - Critical
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- Progress Milestone



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10-Jun-15	TMCLKDBJGEN-PRG-98507 Rev.F	WYu	



Activity Name	Orig Dur	DWPF Start	DWPF Finish	2016								
				Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	
Advanced Submission to SO	0		06-Jun-17									
IPs/ SO's Advance Comments/ ICE Comments	28	07-Jun-17	04-Jul-17									
Comments Received	0		04-Jul-17									
Designer to Reply RTC + Update Submission	21	05-Jul-17	28-Jul-17									
<b>(E3) DDA for Sewerage, Drainage, Waterworks &amp; Utility works for South Landfall</b>												
Designer to Reply RTC + Update Submission	21	02-Feb-15	04-Mar-15									
Submit Updated DDA to SO/ ICE/ IPs	0	05-Mar-15										
ICE Approval & Issue Check Cert	12	05-Mar-15	18-Mar-15									
Submit ICE Check Cert to SO	6	19-Mar-15	25-Mar-15									
IPs Review	28	05-Mar-15	01-Apr-15									
IP's No Objection Received	0		01-Apr-15									
SO's Review	35	05-Mar-15	08-Apr-15									
SO Approval with Condition Received	0		08-Apr-15									
<b>Method Statement Submission</b>												
<b>Method Statement of Ground Treatment for TBMs Passing under Southern Landfall Seawall</b>												
Preparation Method Statement for Ground Improvement in South Landfall	9	20-Jul-15	29-Jul-15									
Submit Method Statement to SO	0		29-Jul-15									
SO Reviews & Comments	28	30-Jul-15	26-Aug-15									
Re-submission	6	27-Aug-15	02-Sep-15									
SO's Review	28	03-Sep-15	30-Sep-15									
SO's Approval	0		30-Sep-15									
<b>Construction</b>												
Temporary Platform for Ground Treatment for TBM passing under Southern Seawall	48	06-Aug-15	02-Oct-15									
Grouting Treatment for TBM passing under Southern Seawall	339	03-Oct-15	25-Nov-16									
<b>Testing &amp; Commissioning/Inspection &amp; Handover</b>												
<b>Final Inspection &amp; Handover</b>												
<b>Design Submission</b>												
<b>(A12) Maintenance Matrix</b>												
SO's Comments for 1st Submission	35	06-Feb-16	11-Mar-16									
Prepare Re-submission	18	12-Mar-16	06-Apr-16									
2nd Submission	0		06-Apr-16									
SO's Condition Approval	35	07-Apr-16	11-May-16									
<b>(A13) Operation &amp; Maintenance Manual</b>												
Preparation of Operation and Maintenance Manual	48	24-Dec-15	27-Feb-16									
1st Submission	0		27-Feb-16									
SO's Comments for 1st Submission	35	28-Feb-16	02-Apr-16									
Prepare Re-submission	24	05-Apr-16	03-May-16									
2nd Submission	0		03-May-16									
SO's Condition Approval	35	04-May-16	07-Jun-16									
<b>(A14) As-built &amp; As-fabricated Drawings</b>												
Preparation of As-built and As-fabricated Drawings	48	24-Dec-15	27-Feb-16									
1st Submission	0		27-Feb-16									
SO's Comments for 1st Submission	35	28-Feb-16	02-Apr-16									
Prepare Re-submission	24	05-Apr-16	03-May-16									
2nd Submission	0		03-May-16									
SO's Condition Approval	35	04-May-16	07-Jun-16									
<b>(A15) Health &amp; Safety File incl. As-built Dwgs &amp; Records, Maintenance Schedules, O&amp;M Manual</b>												
Preparation of Health and Safety File including as-built drawings and records, maintenance schedules, operation and mai	48	24-Dec-15	27-Feb-16									
1st Submission	0		27-Feb-16									
SO's Comments for 1st Submission	35	28-Feb-16	02-Apr-16									
Prepare Re-submission	24	05-Apr-16	03-May-16									
2nd Submission	0		03-May-16									
SO's Condition Approval	35	04-May-16	07-Jun-16									

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10-Jun-15	TMCLKDBJGEN-PRG-98507 Rev. F	WYu	