





Quarterly Environmental Monitoring and Audit (EM&A) Report (November 2015 - January 2016)

February 2016



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M+ Museum Main Works at West Kowloon Cultural District Quarterly Environmental Monitoring and Audit (EM&A) Report (November 2015-January 2016)



This Quarterly EM&A Report has been reviewed and certified by the Environmental Team Leader (ETL) and verified by the Independent Environmental Checker (IEC).

Certified by:	
	Brian Tam Environmental Team Leader (ETL) West Kowloon Cultural District Authority
Date	7 March 2016
Verified by:	
	Fredrick Leong Independent Environmental Checker (IEC) Meinhardt Infrastructure & Environment Ltd
Date	7 Mar. 16

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Executive Summary

This Quarterly EM&A Report presents the monitoring works conducted from 31 October 2015 to 31 January 2016.

The impact stage EM&A programme for the Project includes air quality, noise, water quality, waste, landscape and visual monitoring. The recommended environmental mitigation measures were implemented on site and regular inspections were carried out to ensure that the environmental conditions are acceptable.

The EM&A programme was carried out by the ET in accordance with the EM&A Manual requirements. It is concluded from the environmental monitoring and audit works that adequate environmental mitigation measures have been implemented by the foundation works contractor where appropriate in the reporting quarter.

Exceedance of Action and Limit Levels

There was no breach of Action or Limit levels for Air Quality (1-hour TSP and 24-hour TSP) in this reporting quarter. Noise monitoring was suspected as permission and access to the podium level of the identified noise sensitive receivers could not be granted. Liaision with the management office of the International Commerce Centre for the other location identified at the International Commerce Centre are in progress for granting access to conduct noise monitoring.

Implementation of Mitigation Measures

Construction phase weekly site inspections were carried out to confirm the implementation measures undertaken by the Contractor in the reporting quarter. The status of implementation of mitigation measures during the reporting quarter is shown in **Appendix C**.

Landscape and visual impact inspections were conducted as part of the abovementioned weekly site inspections during the reporting quarter. No adverse comment on landscape and visual aspects was made during these inspections.

Record of Complaints

One environmental complaint regarding construction noise was recorded in the reporting quarter.

Record of Notification of Summons and Successful Prosecutions

No notification of summons and successful prosecution were recorded in the reporting quarter.

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1 Introduction

1.1 Background

In October 2015, Mott MacDonald Hong Kong Limited (MMHK) was commissioned to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) for the construction of M+ Museum Main Works at West Kowloon Cultural District (WKCD) (The Project) as part of the WKCD development. The Project Proponent is the West Kowloon Cultural District Authority (WKCDA). The construction works and EM&A programme commenced on 31 October 2015.

The overall works for the WKCD fall under two separate categories of Designated Project (DP) of the Environmental Impact Assessment Ordinance (EIAO), namely an "engineering feasibility study of urban development projects with a study area covering more than 20 ha or involving a total population of more than 100 000" (Item 3 of Schedule 3) and "an underpass more than 100m in length under the built areas" (Item A.9, Part I, Schedule 2). An Environmental Permit No. EP-453/2013/A (EP) was issued with respect to the "Underpass Road and Austin Road Flyover Serving the West Kowloon Cultural District" which specifically includes the abovementioned category of DP under Item A.9, Part I, Schedule 2 of the EIAO. The captioned project (i.e. The M+ Museum Mian Works at WKCD) includes part of the abovementioned underpass road located within the site boundary also falls under this same category.

The M+ museum development aims to provide an iconic presence for the M+ museum, semi-transparent vertical plane, housing education facilities, a public restaurant and museum offices. At ground and lower levels, generous access will be provided to the park and other West Kowloon Cultural District facilities, alongside a public resource centre, theatres, retail and dining, and back-of-house functions. Basement of the M+ museum, which is part of the WKCD integrated basement consists of the underpass road. This report focuses on main works for M+ museum.

The Quarterly EM&A Report is prepared in accordance with the Clause 3.4 of the Environmental Permit No. EP-453/2013/A. This Monthly EM&A Report presents the monitoring works conducted from 31 October 2015 to 31 January 2016. The purpose of this report is to summarise the findings in the EM&A of the project over the reporting period.

1.2 Project Organisation

The organisation chart and lines of communication with respect to the on-site environmental management structure together with the contact information of the key personnel are shown in **Appendix A**.

1.3 Environmental Status in the Reporting Period

During the reporting period, construction works of the Project undertaken include:

- Site formation
- Pile Cap Construction
- Formworks
- Concrete pouring

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- Excavation
- Rebar /Earthing Installation
- Pile cap side formworks
- Underground drainage works
- Preparation of Formworks & Cast underground pipes
- Waterproofing works
- Lay Rebar
- Formworks Installation
- Slab construction

The captioned project involves part of the Schedule 2 Designated Project (DP), .i.e. "an underpass more than 100m in length under the built areas" (Item A.9, Part I, Schedule 2). Currently, only excavation works was being carried out for the M+ Museum. The construction of the underpass will not commence until the excavation works reach its boundary. The schedule 2 DP has not been physically commenced. The Construction Works Programme of the Project is provided in **Appendix B**.

A layout plan of the Project is provided in Figure 1.



2 Summary of EM&A Requirements

2.1 Monitoring Requirements

In accordance with the EM&A Manual, environmental parameters including air quality, noise, landscape and visual have been monitored. The specific parameters, monitoring frequency and the respective Action and Limit levels are given in **Table 2.1**. Locations of the monitoring stations are provided in **Figure 1**.

Table 2.1: Summary of Impact EM&A Requirements

	, ,				
Parameters	Descriptions	Locations	Frequencies	Action level	Limit level
Air Quality	24-Hour TSP	AM1 - International Commerce Centre	At least once every 6 days	143.6 μg/m3	260 μg/m3
	1-Hour TSP	AM1 - International Commerce Centre	At least 3 times every 6 days	273.7 μg/m3	500 μg/m3
	24-Hour TSP	AM2 - The Harbourside Tower 1	At least once every 6 days	151.1 μg/m3	260 μg/m3
	1-Hour TSP	AM2 - The Harbourside Tower 1	At least 3 times every 6 days	274.2 μg/m3	500 μg/m3
Noise	L _{eq} , 30 minutes	NM1- Podium level of The Harbourside Tower 1	Weekly	When one documented omplaint is received	75 dB(A)
				from any one of the sensitive receivers	
Landscape & Visual	Monitor implementation of proposed mitigation measures during the construction stage	As described in Table 9.1 and 9.2 of the EM&A Manual	Bi-weekly	N/A	N/A

Given that the Project covers only a small part of the whole WKCD area (i.e. M+ Museum, Lyric Theatre Complex and respective portions of underpass road), it was proposed that the EM&A programme for the Project should only require 1 noise monitoring station and 2 air quality monitoring stations located closest to the Project area. Currently, the works under the captioned project are confined in the western part of the WKCD site. Therefore, only the monitoring stations AM1, AM2 were set up. Since NM1 was rejected, an alternative noise monitoring station was identified at the podium floor of International Commerce Centre. Liaision with the management office of the International Commerce Centre are in progress for granting access to conduct noise monitoring.

2.2 Enviornmental Mitigation Measures

Environmental mitigation measures have been recommended in the EM&A Manual. The summary of implementation status of the environmental mitigation measures are provided in **Appendix C**.



Summary of EM&A Monitoring Results

3.1 **Monitoring Data**

In accordance with the EM&A Manual, impact monitoring has been conducted in the reporting quarter. Noise monitoring is suspended as liaision with the management office of the International Commerce Centre are in progress for granting access to conduct noise monitoring. Meteorological data for the reporting quarter have been extracted from Hong Kong Observatory and presented in Appendix D. Monitoring data with graphical presentation for the reporting quarter are shown in **Appendix E**. A summary on the monitoring results are presented in Table 3.1.

Table 3.1: Summary of Monitoring Data

Parameter	Monitoring Location	Minimum	Maximum	Average
Air Quality				
1 hour TSP	AM1	51	141	82
1 hour TSP	AM2	61	172	92
24 hour TSP	AM1	45	73	55
24 hour TSP	AM2	43	107	72

3.2 **Monitoring Exceedances**

Summary of the exceedances in the reporting quarter is tabulated in **Table 3.2**.

Table 3.2: Summary of 24-hour TSP monitoring results

		No. of Exceedance			
Monitoring Station	Parameter	Action Level	Limit Level	Action Taken	
Air Quality					
AM1	1 hour TSP	0	0	N/A	
	24 hour TSP	0	0	N/A	
AM2	1 hour TSP	0	0	N/A	
	24 hour TSP	0	0	N/A	

3.2.1 1-hour TSP Monitoring

All 1-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/ Limit Level exceedance was recorded.

3.2.2 24-hour TSP Monitoring

All 24-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/ Limit Level exceedance was recorded.

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3.2.3 Landscape and Visual Monitoring

All landscape and visual impact inspections were conducted as scheduled in the reporting quarter. No adverse comment on landscape and visual aspects was recorded.

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4 Waste Management

As advised by the Contractor, 97,316.3 ton of excavated waste was disposed. The details of disposal and reuse of excavated waste was shown in **Table 4.1**, while 156.8 ton of general refuse was disposed of at SENT landfill. 121.3 ton of metals and 0 ton of timber were collected by recycling contractors in the reporting quarter. 0 ton of inert C&D materials was reused on site. 21.4 ton of inert C&D materials (grouting material) was reused in other projects. 1 ton of chemical wastes was collected by licensed contractors in the reporting quarter.

Table 4.1: Disposal/ Reuse/Storage of Excavated Waste in the Reporting Quarter

Site of Disposal/ Reuse/ Storage	Quantities (tonnes)
Fill Bank at Tuen Mun Area 38	11,455.0
Fill Bank at Tseung Kwan O Area 137	27,093.3
Green Valley	34,144.0
Advance Works for Shek Wu Hui Sewage Treatment Works	11,952.0
Design and Construction of Kai Tak Cable Tunnel, CLP	720.0
MTR Contract 1002 Whampoa Station and Overrun Tunnel	5,600.0
M+ Stockpile (M66, storage site near M+)	2,880.0
Hsin Chong Stockpile (Storage site near M+)	3,472.0
Total	97,316.3

Note: 16 tonnes per truckload is assumed.

The actual amounts of different types of waste generated by the activities of the Project in the reporting quarter are shown in **Appendix F**.

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5 Environmental Non-conformance

For this reporting quarter, no environmental non-compliance and environmental related prosecution or notification of summons was received. There was one action level breached which was a noise complaint referred from EPD and no breach of Limit Levels for Air Quality monitoring.

One complaint was referred from EPD on 18 December 2015 regarding a noise complaint from a resident of Harbourside. The complainant claimed that the piling works at the M+ Museum construction site had caused noise problem. It occurred at 4pm every weekday and affected the receivers at the Harbourside. The complaint handling procedures in accordance with the EM&A Manual has been taken. The investigation found that no piling work was conducted on site since the commencement date of the project. According to the site diary on 12 December 2015, the major work may cause noise nuisance was breaking of existing bore pile. Noise measurement at the ground floor of the Harbourside was conducted and the Leq (30min) measured was 67.0-67.6 dB(A). No excedencece was recorded. It is understood that concrete breaking may cause noise impact to public although there was no exceedance recorded. Meanwhile, noise from other construction sites adjacent to the project site might cause the cumulative noise impact. The contractor has undertaken mitigation measure to reduce the noise impact.

The cumulative statistics on complaints, notifications of summons and successful prosecutions were provided in **Appendix G**.

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6 Comments, recommendations and Conclusion

6.1 Comments

Based on the observations made during site audits and landscape inspections, and monitoring results recorded during construction dust monitoring, no non-compliances and exceedances of air quality and noise limits were recorded.

6.2 Recommendations

Reviewing the implementation of the recommended mitigation measures in the EM&A Manual, it was observed that they were effective and efficient in controlling the potential impacts due to construction of the project during the reporting period. Review of the effectiveness and efficiency of the EM&A programme will be continued, and recommendations will be provided to remediate any potential impacts due to the project and to improve the EM&A programme if deficiencies of the existing EM&A programme are identified.

6.3 Conclusion

The EM&A programme as recommended in the EM&A Manual has been undertaken since the construction works commenced on 31 October 2015.

Monitoring of air quality with respect to the Project is underway. In particular, the 1-hour TSP, 24-hour TSP under monitoring have been checked against established Action and Limit levels. There was no breach of Action and Limit Levels for 1-hour TSP, 24-hour TSP in the reporting quarter. Noise monitoring was suspended as the permission and access at podium of the identified noise sensitive receiver could not be granted. Liaision with the management office of the International Commerce Centre for the other location identified at the International Commerce Centre are in progress for granting access to conduct noise monitoring.

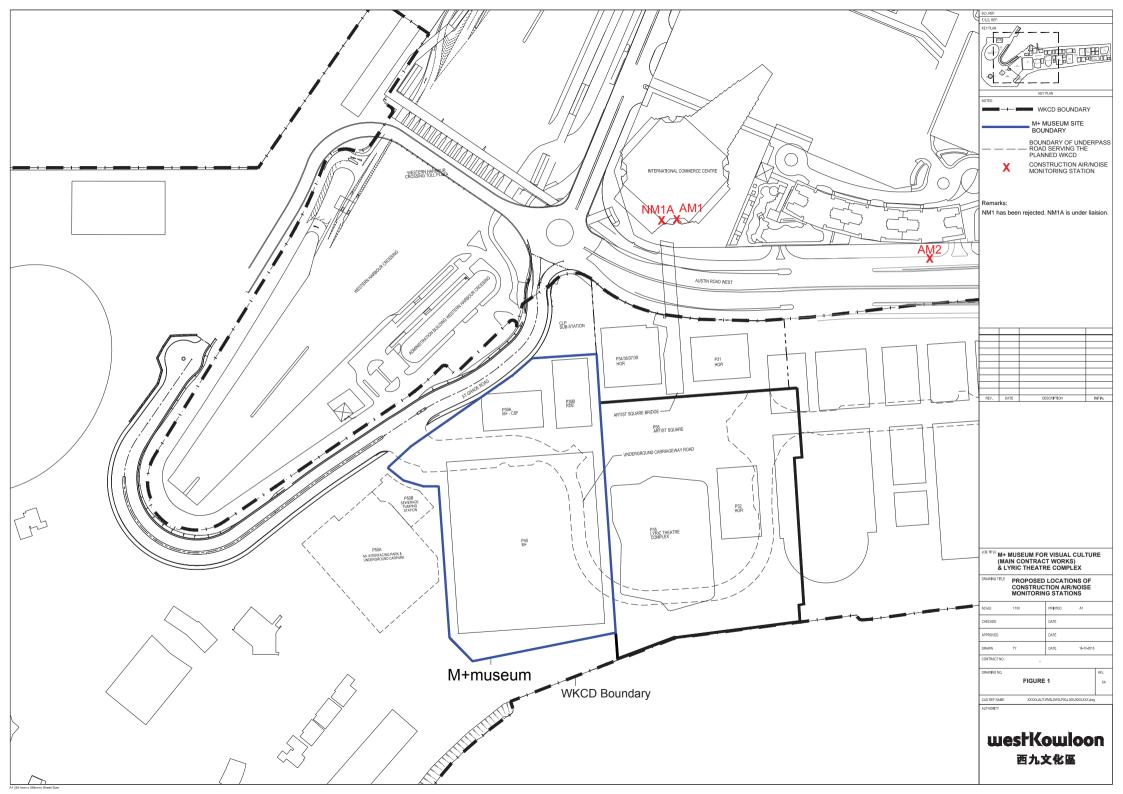
One environmental complaint and no notifications of summons or successful prosecution were received during the reporting quarter.

Weekly construction phase site inspections and bi-weekly landscape and visual impact inspections were conducted during the reporting quarter as required. It was observed that the Contractor had implemented all possible and feasible mitigation measures to mitigate the potential environmental impacts during construction phase works.

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Figure 1 Site Layout Plan and Monitoring Stations



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Appendices

Appendix A. Project Organisation
Appendix B. Construction Programme

 $\begin{array}{lll} \mbox{Appendix C. Environmental Mitigation Measures-Implementation Status} \\ \mbox{Appendix D. Meteorological Data Extracted from Hong Kong Observatory} \end{array}$

Appendix E. Graphical Plots of the Monitoring Results

Appendix F. Waste Flow table

Appendix G. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

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Appendix A. Project Organisation

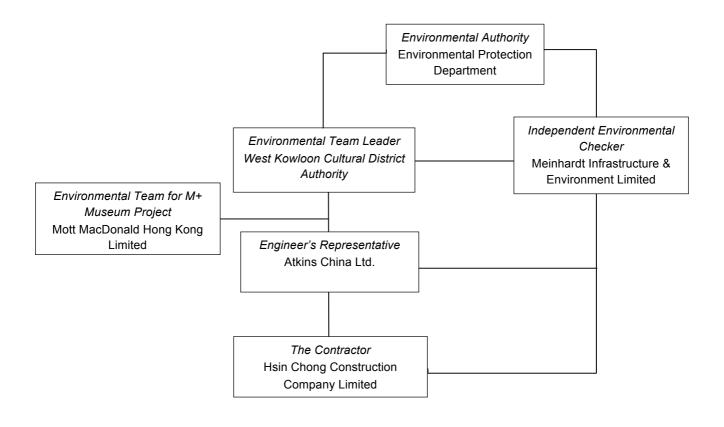


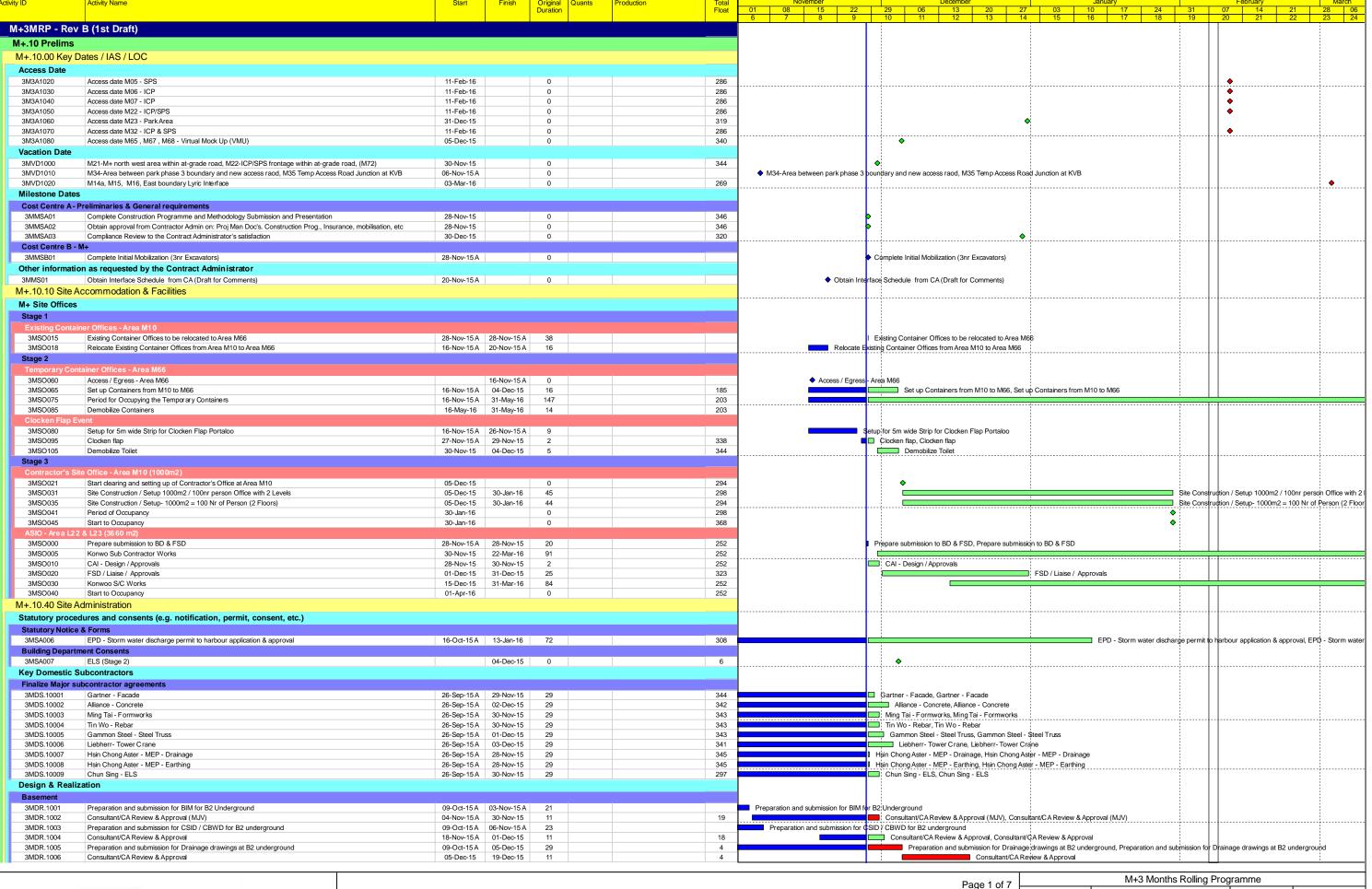
Table B-1: Contact information

Company Name	Role	Name	Telephone
Atkins China Ltd.	Senior Resident Engineer	Mr. Alfred Lee	5401 7289
Meinhardt Infrastructure & Environment Limited	IEC	Mr. Fredrick Leong	2859 1739
Hsin Chong Construction Company Limited	Environmental Officer	Mr. Andy Leung	9489 0035
Mott MacDonald Hong Kong Ltd.	Contractor's Environmental Team Leader	Mr Brandon Wong	2828 5875
West kowloon Cultural District Authority	Senior Environmental Specialist	Mr. Brian Tam	2200 0059

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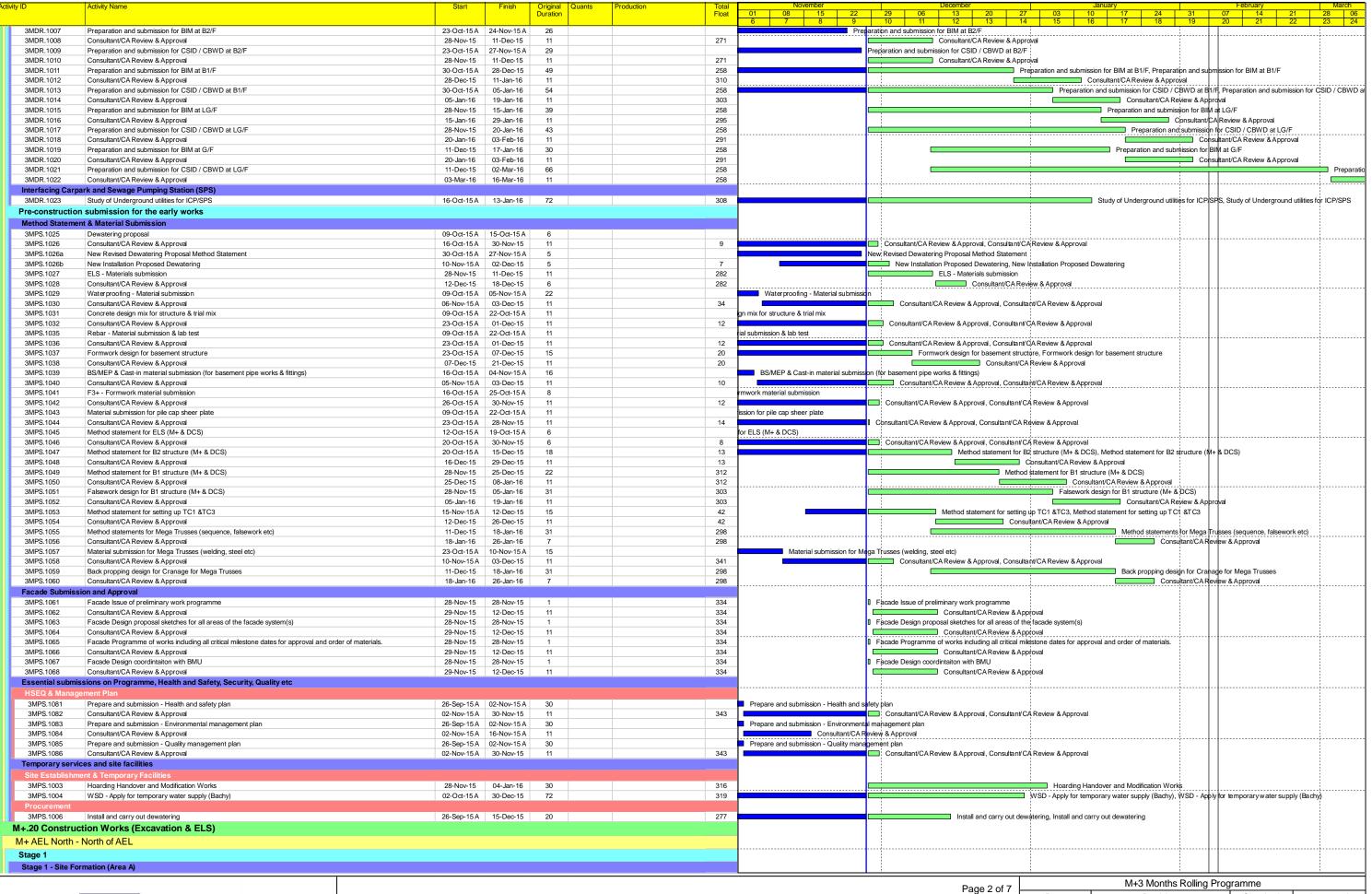


Appendix B. Construction Programme





	M+3 Months Rolling Programme				
Date Revision Checked Approved					
22-Oct-15	MOBP/3MRP Prog Rev B	Edgar Payos	Leo Harnett		
02-Dec-15	3MRP Rev B (1st Draft)	Edgar Payos	Leo Harnett		





Revision B (1st Drait)

M+3 Months Rolling Programme Date Revision Checked Approved 22-Oct-15 MOBP/3MRP Prog Rev B Edgar Payos Leo Harnett 02-Dec-15 3MRP Rev B (1st Draft) Edgar Payos Leo Harnett

M+ 3 Months	Rolling	Programme	(3MRP)
Ro	vicion R	(1ct Draft)	

	Activity Name	Start	Finish	Original Duration	Quants	Production	Total Float	November December January February 01 08 15 22 29 06 13 20 27 03 10 17 24 31 07 14 21 2
								6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 2
3MSS.1000	Dewatering Commence	02-Dec-15		0			7	<u></u>
3MSS.1000.1	Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL C'-H/7'-6') - Portion A1		14-Nov-15 A	4				Excavate +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL C'-H/7-6) Porton A1
3MSS.1000.11	Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A'-J'/4'-6') - Portion A1	-	14-Nov-15 A	4				Excavate +5.0Mpd td +1.8mPD for B2 battered slope (GL A'-J/4'-6') - Portion A1
3MSS.1000.21	Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL C'-G'/2-7') - Portion A2	04-Nov-15 A	14-Nov-15 A	4				Excavate +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL C'-G'/2-7') - Portion A2
3MSS.1000.31	Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL B'-C'/2-4') - Portion A2	05-Nov-15 A	14-Nov-15 A	4				Excavate +5.0Mpd tq +1.4mPD for B2 battered slope (GL B'-C'/2-4') - Portion A2
MSS.1000.41	Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL C -F /2-4) - Portion A3	06-Nov-15 A	14-Nov-15 A	4				Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL C'-F'/2-4) - Portion A3
MSS.1000.51	Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL I'-E/6'-4) - Porton A3	09-Nov-15 A	14-Nov-15 A	4				Excavate +5.0Mpd td +1.8mPD for B2 battered slope (GL I'-E/6'-4) - Portion A3
MSS.1002	Excavate +1.8mPD to _2.30mPD for B2 Slab Formation Level (GLC'-H/7'-6') - Portion A1	05-Dec-15	10-Dec-15	5	5,475m3	2 machines @ 700m3/day	0	Excavate +1.8mPD to _2.30mPD for B2 Slab Formation Level (GL C'-H/7-6') - Portion A1
MSS.1003	Excavate +1.8mPD to _2.30mPD for B2 battered slope (GL A'-J'/4'-6') - Portion A1	08-Dec-15	12-Dec-15	5	4,215m3	2 machines @ 700m3/day	0	Excavate +1.8mPD to _2.30mPD for B2 battered slope (GL A'-J/4'-6') - Portion A1
				-			-	
MSS.1004	Excavate +1.8mPD to _2.30mPD for B2 Slab Formation Level (GL C'-G'/2-7') - Portion A2	10-Dec-15	15-Dec-15	5	4,073m3	2 machines @ 700m3/day	10	Excavate +1.8mPD to _2,30mPD for B2 Slab Formation Level (GL C'-G'/2-7') - Portion A2
MSS.1005	Excavate +1.8mPD to _2.30mPD for B2 battered slope (GL B-C//2-4) - Portion A2	12-Dec-15	17-Dec-15	5	1,697m3	2 machines @ 700m3/day	10	Excavate +1.8mPD to _2.30mPD for B2 battered slope (GL B-C/2-4) - Portion A2
3MSS.1006	Excavate +1.8mPD to _2.30mPD for B2 Slab Formation Level (GLC'F'/2-4) - Portion A3	15-Dec-15	19-Dec-15	5	1,365m3	2 machines @ 700m3/day	10	Excavate +1.8mPD to _2.30mPD for B2 Slab Formation Level (GL C F /2-4) - Portion A3
MSS.1007	Excavate +1.8mPD to _2.30mPD for B2 battered slope (GL I-E/6-4) - Portion A3	16-Dec-15	21-Dec-15	5	3,996m3	2 machines @ 700m3/day	19	Excavate +1.8mPD to _2.30mPD for B2 battered slope (GL I - E/6 4) - Pontion A3
ige 1 - Pile Ca	p Construction (Area A)							
ortion A1								
MSS.1010	Local Excavation for Pile caps (-3.3mPD)- (GLC'-H'/7'-6') - Portion A1 -CPC40(7),41(7),42-2(3),42(7),43(7),40(7)	12-Dec-15	17-Dec-15	4	140m3	1 machine @ 190m3/day	0] - - -
3MSS.1011	Excavation works for Pile - CPC 40 (07)	12-Dec-15	15-Dec-15	2	24.5m3	1 machine @ 190m3/day	0	Excavation works for Pile - CPC 40 (07)
3MSS.1012	Excavation works for Pile -CPC 44 (07)	12-Dec-15	15-Dec-15	2	24.5m3	1 machine @ 190m3/day	0	Excavation works for Pile -CPC 44 (07)
3MSS.1013	Excavation works for Pile -CPC 41 (07)	12-Dec-15	15-Dec-15	2	24.5m3	1 machine @ 190m3/day	0	Excavation works for Pile -CPC 41 (07)
3MSS.1014	Excavation works for Pile - CPC 43 (07)	15-Dec-15	17-Dec-15	2	24.5m3	1 machine @ 190m3/day	0	Excavation works for Pile - CPC 43 (07)
3MSS.1015	Excavation works for Pile - CPC 42 (07)	15-Dec-15	17-Dec-15	2	24.5m3		0	Excavation works for Pile - CPC 42 (07)
	` '					1 machine @ 190m3/day		
3MSS.1016	Excavation works for Pile - CPC 42-2 (03)	16-Dec-15	17-Dec-15	1	14.34m3	1 machine @ 190m3/day	0	Excavation works for Pile - CPC 42-2 (03)
3MSS.1017	Rebar Installation for Pile cap- Portion A1	15-Dec-15	18-Dec-15	3	123T	5 men @ 0.9T/man/day	0	
3MSS.1018	Rebar Installation - CPC 40 (07)	15-Dec-15	16-Dec-15	1	22.05T		0	Rebar Installation - CPC 40 (07)
3MSS.1019	Rebar Installation - CPC 44 (07)	15-Dec-15	16-Dec-15	1	22.05T		0	■ Rebar Installation - CPC 44 (07)
3MSS.1020	Rebar Installation - CPC 41 (07)	15-Dec-15	16-Dec-15	1	22.05T		0	■ Rebar Installation - CPC 41 (07)
3MSS.1020	Rebar Installation - CPC 43 (07)	17-Dec-15	18-Dec-15	1	22.05T		0	Rebar Installation - CPC 43 (07)
		-		-			-	
3MSS.1022	Rebar Installation - CPC 42 (07)	17-Dec-15	18-Dec-15	1	22.05T		0	■ Rebar Installation - CPC 42 (07)
3MSS.1023	Rebar Installation - CPC 42-2 (03)	17-Dec-15	18-Dec-15	1	12.90T		0	Rebar Installation - CPC 42-2 (03)
3MSS.1024	Pile cap side formworks - Portion A1	16-Dec-15	21-Dec-15	4	162m2	2 men @ 22m2/d/man	0	
3MSS.1025	Pile cap side formwork - CPC 40 (07)	16-Dec-15	18-Dec-15	2	28m3		0	Pile cap side formwork - CPC 40 (07)
3MSS.1026	Pile cap side formwork - CPC 44 (07)	16-Dec-15	18-Dec-15	2	28m3		0	■ File cap side formwork < CPC 44 (07)
							-	
3MSS.1027	Pile cap side formwork - CPC 41 (07)	16-Dec-15	18-Dec-15	2	28m3		0	Pile cap side formwbrk - CPC 41 (07)
3MSS.1028	Pile cap side formwork - CPC 43 (07)	18-Dec-15	21-Dec-15	2	28m3		0	Pile cap side fdrmwork - CPC 43 (07)
3MSS.1029	Pile cap side formwork - CPC 42 (07)	18-Dec-15	21-Dec-15	2	28m3		0	Pile cap side formwork - CPC 42 (07)
3MSS.1030	Pile cap side formwork - CPC 42-2 (03)	18-Dec-15	21-Dec-15	2	21.44m3		0	Pile cap side formwork - CPC 42-2 (03)
3MSS.1031	Portion A1 concrete pouring for Pile cap	18-Dec-15	23-Dec-15	3	140m3		0	
				-			-	
3MSS.1032	concrete pouring - CPC 40 (07)	18-Dec-15	19-Dec-15	1	24.5m3		2	concrete pouring : CPC 40 (07)
3MSS.1033	concrete pouring - CPC 44 (07)	18-Dec-15	19-Dec-15	1	24.5m3		2	concrete pouring - CPC 44 (07)
3MSS.1034	concrete pouring - CPC 41 (07)	18-Dec-15	19-Dec-15	1	24.5m3		2	concrete pouring - CPC 41 (07)
3MSS.1035	concrete pouring - CPC 43 (07)	21-Dec-15	23-Dec-15	1	24.5m3		0	concrete pouring - CPC 43 (07)
3MSS.1036	concrete pouring - CPC 42 (07)	21-Dec-15	23-Dec-15	1	24.5m3		0	concrete pouring - CPC 42 (07)
		-	23-Dec-15		14.34m3		0	
3MSS.1037	concrete pouring - CPC 42-2 (03)	21-Dec-15	23-Dec-15		14.541115		U	concrete pduring - CPC 42-2 (03)
Portion A2	Level Francisco (no Dile none / 0.0 mDD) (OL OLOLO 70, Destina AO, ODO 40(0) 50(0) DO 05(0) 00(4) 07(4) 00(40 D 45	00 D 45	0	040	4	40	
3MSS.1038	Local Excavation for Pile caps (-3.3mPD) - (GL C'-G'/2-7') - Portion A2- CPC49(2),50(2), PC 05(3),06(4),07(4),08(Excavation works for Pile - CPC 49 (02)	19-Dec-15	23-Dec-15	1	64m3	1 machine @ 190m3/day 1 machine @ 190m3/day	10	Excavation works for Pile - CPC 49 (02)
3MSS.1039	. ,	19-Dec-15	21-Dec-15		5.6m3	,		
3MSS.1040	Excavation works for Pile - CPC 50 (02)	19-Dec-15	21-Dec-15	1	5.6m3	1 machine @ 190m3/day	10	Excavation works for Pile - CPC 50 (02)
3MSS.1041	Excavation works for Pile - PC 05 (03)	19-Dec-15	21-Dec-15	1	14.34m3	1 machine @ 190m3/day	10	Excavation works for Pile - PC 05 (03)
3MSS.1042	Excavation works for Pile - PC 08 (02)	21-Dec-15	23-Dec-15	1	5.6m3	1 machine @ 190m3/day	10	Excavation works for Pile - PC 08 (02)
3MSS.1043	Excavation works for Pile - PC 06 (04)	21-Dec-15	23-Dec-15	1	15.68m3	1 machine @ 190m3/day	10	Excavation works for Pile - PC 06 (04)
3MSS.1044	Excavation works for Pile - PC 07 (04)	21-Dec-15	23-Dec-15	1	15.68m3	1 machine @ 190m3/day	10	Excavation works for Pile - PC 07 (04)
					44T		10	Excavation works for the 1 C or (04)
3MSS.1045	Rebar Installation for Pile cap- Portion A2	21-Dec-15	24-Dec-15	2	_	5 men @ 0.9T/man/day		l
3MSS.1046	Rebar Installation - CPC 49 (02)	21-Dec-15	23-Dec-15	1	5.04T		10	Rebar Installation - CPC 49 (02)
3MSS.1047	Rebar Installation - CPC 50 (02)	21-Dec-15	23-Dec-15	1	5.04T		10	Rebar Installation - CPC 50 (02)
3MSS.1048	Rebar Installation - PC 05 (03)	21-Dec-15	23-Dec-15	1	12.9T		10	Rebar Installation - PC 05 (03)
3MSS.1049	Rebar Installations - PC 08 (02)	23-Dec-15	24-Dec-15	1	5.04T		10	☐ Rebar Installations - PC 08 (02)
3MSS.1050	Rebar Installation - PC 06 (04)	23-Dec-15	24-Dec-15	1	14.11T		10	Rebar Installation - PC 06 (04)
3MSS.1051	Rebar Installation - PC 07 (04)	23-Dec-15	24-Dec-15	1	14.11T	-	10	□ Rebar Installation - PC 07 (04)
3MSS.1052	Pile cap side formworks - Portion A2	23-Dec-15	28-Dec-15	2	114m2	2 men @ 22m2/d/man	10	
3MSS.1053	Pile cap side formworks - CPC 49 (02)	23-Dec-15	24-Dec-15	1	15.2m2		10	☐ Pile cap side formworks - CPC 49 (02)
	Pile cap side formworks - CPC 50 (02)	23-Dec-15	24-Dec-15	1	15.2m2		10	☐ Pile cap side formworks - CPC 50 (02)
3MSS.1054	Pile cap side formworks - PC 05 (03)	23-Dec-15	24-Dec-15	1	21.44m2		10	□ Pile cap side formworks - PC 05 (03)
	i no sup side formittorio i i o oo (oo)	24-Dec-15		1			10	Pile cap side formworks - PC 03 (03)
3MSS.1055	Pilo can cido formularko PC 09 (03)		28-Dec-15	1	15.2m2	-		↓
3MSS.1055 3MSS.1056	Pile cap side formworks - PC 08 (02)		28-Dec-15	1	22.4m2		10	Pile cap side formworks - PC 06 (04)
3MSS.1055 3MSS.1056 3MSS.1057	Pile cap side formworks - PC 06 (04)	24-Dec-15		1	22.4m2		10	Pile cap side formworks - PC 07 (04)
3MSS.1055 3MSS.1056			28-Dec-15				10	
3MSS.1055 3MSS.1056 3MSS.1057	Pile cap side formworks - PC 06 (04)	24-Dec-15		1	64M3			Concrete Pouring - CPC 49 (02)
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring	24-Dec-15 24-Dec-15 28-Dec-15	28-Dec-15 29-Dec-15	1			10	© Concrete Pouring - CPC 50 (02)
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15	28-Dec-15 29-Dec-15 29-Dec-15	1	5.6m3			
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - CPC 50 (02)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15	28-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15	1	5.6m3 5.6m3		10	
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1057 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - CPC 50 (02) Concrete Pouring - PC 05 (03)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15	28-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15	1 1 1	5.6m3 5.6m3 14.34m3		10 10	Concrete Pouring - PC 05 (03)
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - CPC 50 (02)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15	28-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15	1	5.6m3 5.6m3		10	
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1057 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - CPC 50 (02) Concrete Pouring - PC 05 (03)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15	28-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15	1 1 1	5.6m3 5.6m3 14.34m3		10 10	Concrete Pouring - PC 05 (03)
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062 3MSS.1063	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15	28-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15	1 1 1	5.6m3 5.6m3 14.34m3 5.6m3		10 10 10	□ Concrete Pouring - PC 05 (03) □ Concrete Pouring - PC 08 (02)
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062 3MSS.1063 3MSS.1064 3MSS.1064	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - CPC 50 (02) Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 08 (02)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15	28-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15	1 1 1 1 1 1	5.6m3 5.6m3 14.34m3 5.6m3 15.68m3		10 10 10 10	□ Concrete Pouring - PC 05 (03) □ Concrete Pouring - PC 08 (02) □ Concrete Pouring - PC 06 (04)
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062 3MSS.1063 3MSS.1064 3MSS.1064	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - CPC 50 (02) Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 08 (02)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15	28-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15	1 1 1 1 1 1	5.6m3 5.6m3 14.34m3 5.6m3 15.68m3	1 machine @ 190m3/day	10 10 10 10	□ Concrete Pouring - PC 05 (03) □ Concrete Pouring - PC 08 (02) □ Concrete Pouring - PC 06 (04)
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062 3MSS.1063 3MSS.1064 3MSS.1064 3MSS.1065	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - CPC 50 (02) Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 07 (04) Concrete Pouring - PC 07 (04) Local Excavation for Pile caps (-3.3mPD) - (GL C'-F'/2-4) - Portion A3 -PC17(1),18(1),19(2),20(7),21(2),33(2)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15	28-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15	1 1 1 1 1 1	5.6m3 5.6m3 14.34m3 5.6m3 15.68m3 15.68m3		10 10 10 10 10	□ Concrete Pouring - PC 05 (03) □ Concrete Pouring - PC 08 (02) □ Concrete Pouring - PC 06 (04)
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062 3MSS.1063 3MSS.1063 3MSS.1065 Portion A3 3MSS.1066 3MSS.1066	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - CPC 50 (02) Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 07 (04) Local Excavation for Pile caps (-3.3mPD) - (GL C'-F'/2-4) - Portion A3 - PC17(1),18(1),19(2),20(7),21(2),33(2) Excavation works for Pile - PC 21 (02)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 23-Dec-15	28-Dec·15 29-Dec·15 29-Dec·15 29-Dec·15 29-Dec·15 29-Dec·15 29-Dec·15 29-Dec·15 29-Dec·15 24-Dec·15 24-Dec·15	1 1 1 1 1 1 1 1 1	5.6m3 5.6m3 14.34m3 5.6m3 15.68m3 15.68m3 46m3 5.6m3	1 machine @ 190m3/day	10 10 10 10 10 10 22 17	Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 06 (04) Concrete Pouring - PC 07 (04)
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062 3MSS.1063 3MSS.1064 3MSS.1065 Portion A3 3MSS.1066 3MSS.1066 3MSS.1066 3MSS.1067 3MSS.1067	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - PC 05 (03) Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 06 (04) Concrete Pouring - PC 07 (04) Local Excavation for Pile caps (-3.3mPD) - (GL C'-F'/2-4) - Portion A3 -PC17(1),18(1),19(2),20(7),21(2),33(2) Excavation works for Pile - PC 21 (02) Excavation works for Pile - PC 33 (02)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 23-Dec-15 23-Dec-15	28-Dec 15 29-Dec 15 29-Dec 15 29-Dec 15 29-Dec 15 29-Dec 15 29-Dec 15 29-Dec 15 24-Dec 15 24-Dec 15 24-Dec 15	1 1 1 1 1 1 1 1 1 1 1 1 1	5.6m3 5.6m3 14.34m3 5.6m3 15.68m3 15.68m3 46m3 5.6m3 5.6m3	1 machine @ 190m3/day 1 machine @ 190m3/day	10 10 10 10 10 10 22 17	Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 06 (04) Concrete Pouring - PC 07 (04) Excavation works for Pile - PC 21 (02) Excavation works for Pile - PC 33 (02)
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062 3MSS.1063 3MSS.1064 3MSS.1065 Portion A3 3MSS.1066 3MSS.1067 3MSS.1067 3MSS.1068	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 08 (04) Concrete Pouring - PC 07 (04) Local Excavation for Pile caps (-3.3mPD) - (GL C'-F'/2-4) - Portion A3 -PC17(1),18(1),19(2),20(7),21(2),33(2) Excavation works for Pile - PC 21 (02) Excavation works for Pile - PC 20 (07)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15	28-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15	1 1 1 1 1 1 1 1 1	5.6m3 5.6m3 14.34m3 5.6m3 15.68m3 15.68m3 46m3 5.6m3 5.6m3 25m3	1 machine @ 190m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day	10 10 10 10 10 10 22 17 17	Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 06 (04) Concrete Pouring - PC 07 (04) Excavation works for Pile - PC 21 (02) Excavation works for Pile - PC 33 (02) Excavation works for Pile - PC 20 (07)
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062 3MSS.1063 3MSS.1064 3MSS.1065 Portion A3 3MSS.1066 3MSS.1066 3MSS.1066 3MSS.1066	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - PC 05 (03) Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 06 (04) Concrete Pouring - PC 07 (04) Local Excavation for Pile caps (-3.3mPD) - (GL C'-F'/2-4) - Portion A3 -PC17(1),18(1),19(2),20(7),21(2),33(2) Excavation works for Pile - PC 21 (02) Excavation works for Pile - PC 33 (02)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 23-Dec-15 23-Dec-15	28-Dec 15 29-Dec 15 29-Dec 15 29-Dec 15 29-Dec 15 29-Dec 15 29-Dec 15 29-Dec 15 24-Dec 15 24-Dec 15 24-Dec 15	1 1 1 1 1 1 1 1 1 1 1 1 1	5.6m3 5.6m3 14.34m3 5.6m3 15.68m3 15.68m3 46m3 5.6m3 5.6m3	1 machine @ 190m3/day 1 machine @ 190m3/day	10 10 10 10 10 10 22 17	Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 06 (04) Concrete Pouring - PC 07 (04) Excavation works for Pile - PC 21 (02) Excavation works for Pile - PC 33 (02) Excavation works for Pile - PC 20 (07) Excavation works for Pile - PC 29 (02)
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062 3MSS.1063 3MSS.1064 3MSS.1065 Portion A3 3MSS.1066 3MSS.1067 3MSS.1068 3MSS.1068	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 08 (04) Concrete Pouring - PC 07 (04) Local Excavation for Pile caps (-3.3mPD) - (GL C'-F'/2-4) - Portion A3 -PC17(1),18(1),19(2),20(7),21(2),33(2) Excavation works for Pile - PC 21 (02) Excavation works for Pile - PC 20 (07)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15	28-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15	1 1 1 1 1 1 1 1 1 1 1 1 1	5.6m3 5.6m3 14.34m3 5.6m3 15.68m3 15.68m3 46m3 5.6m3 5.6m3 25m3	1 machine @ 190m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day	10 10 10 10 10 10 22 17 17	Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 06 (04) Concrete Pouring - PC 07 (04) Excavation works for Pile - PC 21 (02) Excavation works for Pile - PC 33 (02) Excavation works for Pile - PC 20 (07)
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062 3MSS.1063 3MSS.1064 3MSS.1065 Portion A3 3MSS.1066 3MSS.1066 3MSS.1067 3MSS.1068 3MSS.1069 3MSS.1070 3MSS.1070	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - CPC 50 (02) Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 07 (04) Local Excavation for Pile caps (-3.3mPD) - (GL C'-F'/2-4) - Portion A3 -PC17(1),18(1),19(2),20(7),21(2),33(2) Excavation works for Pile - PC 21 (02) Excavation works for Pile - PC 33 (02) Excavation works for Pile - PC 20 (07) Excavation works for Pile - PC 18 (01)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15	28-Dec 15 29-Dec 15 29-Dec 15 29-Dec 15 29-Dec 15 29-Dec 15 29-Dec 15 29-Dec 15 24-Dec 15 24-Dec 15 24-Dec 15 24-Dec 15 24-Dec 15 24-Dec 15 24-Dec 15	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.6m3 5.6m3 14.34m3 5.6m3 15.68m3 15.68m3 5.6m3 5.6m3 5.6m3 25m3 5.6m3 2m3	1 machine @ 190m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day	10 10 10 10 10 10 22 17 17 17 22 22	Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 06 (04) Concrete Pouring - PC 07 (04) Concrete Pouring - PC 07 (04) Excavation works for Pile - PC 21 (02) Excavation works for Pile - PC 33 (02) Excavation works for Pile - PC 00 (07) Excavation works for Pile - PC 19 (02) Excavation works for Pile - PC 19 (02)
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3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062 3MSS.1063 3MSS.1064 3MSS.1065 Portion A3 3MSS.1066 3MSS.1066 3MSS.1067 3MSS.1070 3MSS.1071 3MSS.1071 3MSS.1073 3MSS.1073 3MSS.1074 3MSS.1076	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - CPC 50 (02) Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 07 (04) Local Excavation For Pile caps (-3.3mPD) - (GL C'-F'/2-4) - Portion A3 -PC17(1),18(1),19(2),20(7),21(2),33(2) Excavation works for Pile - PC 21 (02) Excavation works for Pile - PC 33 (02) Excavation works for Pile - PC 19 (02) Excavation works for Pile - PC 18 (01) Excavation works for Pile - PC 18 (01) Excavation works for Pile - PC 17 (01) Rebar Installation - PC 18 (102) Rebar Installation - PC 33 (02) Rebar Installation - PC 33 (02)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 23-Dec-15 24-Dec-15	28-Dec 15 29-Dec 15 24-Dec 15	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.6m3 5.6m3 14.34m3 5.6m3 15.68m3 15.68m3 5.6m3 5.6m3 25m3 25m3 2m3 2m3 2m3 41T 5.04T	1 machine @ 190m3/day 1 machine @ 190m3/day 5 men @ 0.9T/man/day -dodo-	10 10 10 10 10 10 10 22 17 17 22 22 22 22 22 18	Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 06 (04) Concrete Pouring - PC 07 (04) Concrete Pouring - PC 07 (04) Excavation works for Pile - PC 21 (02) Excavation works for Pile - PC 20 (07) Excavation works for Pile - PC 20 (07) Excavation works for Pile - PC 19 (02) Excavation works for Pile - PC 19 (01) Excavation works for Pile - PC 17 (01) Repar /Earthing Installation - PC 21 (02) Rebar Installation - PC 33 (02)



M+3 Months Rolling Programme											
Date	Revision	Checked	Approved								
22-Oct-15	MOBP/3MRP Prog Rev B	Edgar Payos	Leo Harnett								
02-Dec-15	3MRP Rev B (1st Draft)	Edgar Payos	Leo Harnett								

	Activity Name	Start	Finish	Original	Quants	Production	Total	November December January February	
				Duration			Float	01 08 15 22 29 06 13 20 27 03 10 17 24 31 07 14	
01400 4070	D. 1. (E. d.) 1. d. H. (DO 40 (04))	04.5.45	00 1 10		1.07		40	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	22 23 24
3MSS.1079	Rebar /Earthing Installation - PC 18 (01)	31-Dec-15	02-Jan-16	1	1.8T	-do-	18	Rebar /Earthing Installation - PC 18 (01)	
3MSS.1081	Rebar Installation - PC 17 (01)	31-Dec-15	02-Jan-16	1	1.8T	-do-	18	Rebar Installation - PC 17 (01)	
3MSS.1082	Pile cap side formworks - Portion A3	28-Dec-15	05-Jan-16	6	91m2	2 men @ 22m2/d/man	17		
3MSS.1083	Pile cap side formworks - PC 21 (02)	28-Dec-15	29-Dec-15	1	15.2m2	-do-	21	☐ Pile cap side formworks - PC 21 (02)	
3MSS.1084	Pile cap side formworks -PC 33 (02)	28-Dec-15	29-Dec-15	1	15.2m2	-do-	21	☐ Pile cap side formworks -PC 33 (02)	
3MSS.1085	Pile cap side formworks -PC 20 (07)	02-Jan-16	05-Jan-16	2	28m2	-do-	17	Pile cap side formworks -PC 20 (07)	
3MSS.1086	Pile cap side formworks -PC 19 (02)	04-Jan-16	05-Jan-16	1	15.2m2	-do-	17	☐ Pile cap side formworks -PC 19 (02)	
3MSS.1087	Pile cap side formworks -PC 18 (01)	04-Jan-16	05-Jan-16	1	8m2	-do-	17	☐ Pile cap side formworks -PC 18 (01)	
3MSS.1088	Pile cap side formworks -PC 17 (01)	04-Jan-16	05-Jan-16	1	8m2	-do-	17	☐ Pile cap side formworks -PC 17 (01)	
3MSS.1089	Portion A3 concrete pouring	05-Jan-16	06-Jan-16	1	46m3		17		
3MSS.1090	Concrete Pouring - PC 21 (02)	05-Jan-16	06-Jan-16	1	5.6m3	-do-	17	☐ Concrete Pouring - PC 21 (02)	
3MSS.1091	Concrete Pouring - PC 33 (02)	05-Jan-16	06-Jan-16	1	5.6m3	-do-	17	☐ Concrete Pouring - PC 33 (02)	
3MSS.1092	Concrete Pouring - PC 20 (07)	05-Jan-16	06-Jan-16	1	25m3	-do-	17	☐ Concrete Pouring - PC 20 (07)	
3MSS.1093	Concrete Pouring - PC 19 (02)	05-Jan-16	06-Jan-16	1	5.6m3	-do-	17	☐ Concrete Pouring - PC 19 (02)	!
3MSS.1094	Concrete Pouring - PC 18 (01)	05-Jan-16	06-Jan-16	1	2m3	-do-	17	☐ Concrete Pouring - PC 18 (01)	
3MSS.1095	Concrete Pouring - PC 17 (01)	05-Jan-16	06-Jan-16	1	2m3	-do-	17	□ Concrete Pouring - PC 17 (01)	
Manhole(Type	1,25,19,38,2,14) - Portion A			,		,			
3MSS.1100	Excavation (Type 1) - GL 6'7'-D'E'	19-Dec-15	21-Dec-15	1	5m3	1 machine @ 190m3/day	7	Excavation (Type 1) - GL 6'7'-D'E'	
3MSS.1101	Rebar Installation (Type 1) - GL 6'7'-D'E'	21-Dec-15	23-Dec-15	1	Omo	Timadrinie & Todina/day	7	Rebar Installation (Type 1) - GL 67-D'E'	·
3MSS.1101	Formworks (Type 1) - GL 6/7-D'E'	23-Dec-15	24-Dec-15	1			7	Formworks (Type 1) - GL 67-DE	
				1					
3MSS.1103	Concrete Pouring (Type 1) - GL 6'7'-D'E'	24-Dec-15	28-Dec-15	1	5m2	1 machine @ 1000/	7	Cohcrete Pouring (Type 1) - GL 67'-D'E'	
3MSS.1104	Excavation (Type 25) - GL 6'7'-D'E'	21-Dec-15	23-Dec-15	1	5m3	1 machine @ 190m3/day		Excavation (Type 25) - GL 677-D'E	}
3MSS.1105	Rebar Installation(Type 25) - GL 67'-D'E'	23-Dec-15	24-Dec-15	1			7	Rebar Installation(Type 25) - GL 677-DTE	
3MSS.1106	Formworks (Type 25) - GL 6'7'-D'E'	24-Dec-15	28-Dec-15	1			7	Formworks (Type 25) - GL 67'-D'E'	
3MSS.1107	Concrete Pouring (Type 25) - GL 6'7'-D'E'	28-Dec-15	29-Dec-15	1			7	Concrete Pouring (Type 25) - GL 6'7'-D'E'	
3MSS.1108	Excavation (Type 19) - GL 7'-1/D-'E'	29-Dec-15	30-Dec-15	1	5m3	1 machine @ 190m3/day	13	Excavation (Type 19) - GL 7'-1/D-'E'	
3MSS.1109	Rebar Installation (Type 19) - GL 7'-1/D-'E'	30-Dec-15	31-Dec-15	1			13	Rebar Installation (Type 19) - GL 7'-1/D-'E'	
3MSS.1110	Formworks (Type 19) - GL 7'-1/D-'E'	31-Dec-15	02-Jan-16	1			13	Formworks (Type 19) - GL 7'-1/D-'E'	
3MSS.1111	Concrete Pouring (Type 19) - GL 7'-1/D-'E'	02-Jan-16	02-Jan-16	0			14	I Concrete Pouring (Type 19) - GL 7'-1/D-'E'	
3MSS.1112	Excavation (Type 38) - GL 1/C-'D'	30-Dec-15	31-Dec-15	1	5m3	1 machine @ 190m3/day	13	☐ Excavation (Type 38) - GL 1/C-'D'	
3MSS.1113	Rebar Installation (Type 38) - GL 1/C-'D'	31-Dec-15	02-Jan-16	1			13	Rebar Installation (Type 38) - GL 1/C-'D'	}
3MSS.1114	Formworks (Type 38) - GL 1/C-'D'	02-Jan-16	04-Jan-16	1			13	Formworks (Type 38) - GL 1/C-'D'	}
3MSS.1115	Concrete Pouring (Type 38) - GL 1/C-'D'	04-Jan-16	04-Jan-16	0			13	I Concrete Pouring (Type 38) - GL 1/C-'D'	
3MSS.1116	Excavation (Type 2) - GL 2/D-'E'	06-Jan-16	07-Jan-16	1	5m3	1 machine @ 190m3/day	19	☐ Excavation (Type 2) - GL 2/D-'E'	[
3MSS.1117	Rebar Installation (Type 2) - GL 2/D-'E'	07-Jan-16	08-Jan-16	1			19	☐ Rebar Installation (Type 2) - GL 2/D-'E'	
3MSS.1118	Formworks (Type 2) - GL 2/D-'E'	08-Jan-16	09-Jan-16	1			19	☐ Formworks (Type 2) - GL 2/D-'E'	
3MSS.1119	Concrete Pouring (Type 2) - GL 2/D-'E'	09-Jan-16	11-Jan-16	1			19	Concrete Pouring (Type 2) - GL 2/D-'E'	
3MSS.1120	Excavation (Type 14) - GL 2-3/E'-F'	07-Jan-16	08-Jan-16	1	5m3	1 machine @ 190m3/day	19	□ Excavation (Type 14) - GL 2-3/E'-F'	
3MSS.1121	Rebar Installation (Type 14) - GL 2-3/E'-F'	08-Jan-16	09-Jan-16	1	1		19	☐ Rebar Installation (Type 14) - GL 2-3/E'-F'	·
3MSS.1122	Formworks (Type 14) - GL 2-3/E'-F'	09-Jan-16	11-Jan-16	1			19	☐ Formworks (Type 14) - GL 2-3/E-F	
3MSS.1123	Concrete Pouring (Type 14) - GL 2-3/E'-F'	11-Jan-16	12-Jan-16	1			19	Concrete Pouring (Type 14) - GL 2-3/E-F	
	ormation (Area B)	TT Gail 10	12 0011 10				.0		
	Jiliation (Area B)								i
	Deviate in Communication Commu	00 D 45	1	_			47		;
3MSS.1124	Dewatering Commence	02-Dec-15	44.11 45.4	0			17	◆ · · · · · · · · · · · · · · · · · · ·	
3MSS.1124 3MSS.1125	Initial Site formation	02-Nov-15 A	14-Nov-15 A	1			17	Initial Site formation	
3MSS.1124 3MSS.1125 3MSS.1125.1	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GLA-K/9-3)	02-Nov-15 A 03-Nov-15 A	14-Nov-15 A	1 4			17	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)	
3MSS.1124 3MSS.1125 3MSS.1125.1 3MSS.1125.11	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GLA-K/9-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GLA/2-10')	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A	14-Nov-15 A 14-Nov-15 A	1 4 4			17	Initial Site formation Excavate +5.0Mpd tq +1.8mPD for B2 Slab Formation Level (GL A-K'/9-3) Excavate +5.0Mpd tq +1.8mPD for B2 battered slope (GL A/2-10')	
3MSS.1124 3MSS.1125 3MSS.1125.1 3MSS.1125.11 3MSS.1125.21	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GLA-K/9-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GLA/2-10') Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K'-A'/8-3)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 05-Nov-15 A	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A	1 4 4 4			17	Initial Site formation Excavate +5.0Mpd tq +1.8mPD for B2 Slab Formation Level (GL A-K'/9-3) Excavate +5.0Mpd tq +1.8mPD for B2 battered slope (GL A/2-10') Excavate +5.0Mpd tq +1.8mPD for B2 Slab Formation Level (GL K'-A'/8-3)	
3MSS.1124 3MSS.1125 3MSS.1125.1 3MSS.1125.11 3MSS.1125.21 3MSS.1125.21	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GLA-K/9-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GLA/2-10') Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A'/8-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GLA-B'/3-7')	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 05-Nov-15 A 06-Nov-15 A	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A	1 4 4 4 4			17	Initial Site formation Excavate +5.0Mpd tq +1.8mPD for B2 Slab Formation Level (GL A-K'/9-3) Excavate +5.0Mpd tq +1.8mPD for B2 battered slope (GL A/2-10') Excavate +5.0Mpd tq +1.8mPD for B2 Slab Formation Level (GL K-A'/8-3) Excavate +5.0Mpd tq +1.8mPD for B2 battered slope (GL A-B'/3-7')	
3MSS.1124 3MSS.1125 3MSS.1125.1 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K'-A'/8-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B'/3-7) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 05-Nov-15 A 06-Nov-15 A 07-Nov-15 A	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A	1 4 4 4			17	Initial Site formation Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-K'/9-3) Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A/Z-10') Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K'-A'/8-3) Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A-B'/3-7') Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A'-C'/2-6)	
3MSS.1124 3MSS.1125 3MSS.1125.1 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K'/9-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10') Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A'/8-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B'/3-7') Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 05-Nov-15 A 06-Nov-15 A	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A	1 4 4 4 4				Initial Site formation Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A/2-10) Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A-B/3-7) Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6) Excavate +5.0Mpd tc +1.8mPD battered slope (GL A-E/10-4)	
3MSS.1124 3MSS.1125 3MSS.1125.1 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K'-A'/8-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B'/3-7) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 05-Nov-15 A 06-Nov-15 A 07-Nov-15 A	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A	1 4 4 4 4 4			17	Initial Site formation Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-K'/9-3) Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A/Z-10') Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K'-A'/8-3) Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A-B'/3-7') Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A'-C'/2-6)	
3MSS.1124 3MSS.1125 3MSS.1125.1 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K'/9-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10') Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A'/8-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B'/3-7') Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 05-Nov-15 A 06-Nov-15 A 07-Nov-15 A 09-Nov-15 A	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A	1 4 4 4 4 4 4	4,215m3	2 machines @ 700m3/day		Initial Site formation Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A/2-10) Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A-B/3-7) Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6) Excavate +5.0Mpd tc +1.8mPD battered slope (GL A-E/10-4)	
3MSS.1124 3MSS.1125 3MSS.1125.1 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51 3MSS.1126.51	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K'/9-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A'2-10') Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A'/8-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B'/3-7') Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K'/9-3)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 05-Nov-15 A 06-Nov-15 A 07-Nov-15 A 09-Nov-15 A 08-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15	1 4 4 4 4 4 4 5 5		2 machines @ 700m3/day 2 machines @ 700m3/day	17	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 slab Formation Level (GL A-B/3-7) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)	
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51 3MSS.1125.51 3MSS.1126	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K'/9-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10') Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A'/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-B'/3-7') Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K'/9-3) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A/2-10')	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 05-Nov-15 A 06-Nov-15 A 07-Nov-15 A 09-Nov-15 A 08-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15	1 4 4 4 4 4 4 5 5			17 17	Initial Site formation Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A/2-10') Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A-B/3-7') Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd tc +1.8mPD battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K'/9-3) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A/2-10')	
3MSS.1124 3MSS.1125 3MSS.1125.11 3MSS.1125.11 3MSS.1125.21 3MSS.1125.21 3MSS.1125.41 3MSS.1125.51 3MSS.1126 3MSS.1127 3MSS.1127	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10') Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B/3-7') Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A/2-10') Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 06-Nov-15 A 06-Nov-15 A 07-Nov-15 A 09-Nov-15 A 08-Dec-15 09-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15	1 4 4 4 4 4 4 5 5	3,723m3	2 machines @ 700m3/day	17 17 29	Initial Site formation Excavate +5.0Mpd tc +1.8mpD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpd tc +1.8mpD for B2 battered slope (GL A/2-10') Excavate +5.0Mpd tc +1.8mpD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd tc +1.8mpD for B2 battered slope (GL A-E/3-7') Excavate +5.0Mpd tc +1.8mpD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd tc +1.8mpD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd tc +1.8mpD battered slope (GL A-E/10-4) Excavate +1.8mpD for B2 Slab Formation Level (GL A-K/9-3) Excavate +1.8mpD for B2 Slab Formation Level (GL A-K/9-3) Excavate +1.8mpD for B2 Slab Formation Level (GL K-A/8-3)	
3MSS.1124 3MSS.1125 3MSS.1125.1 3MSS.1125.1 3MSS.1125.21 3MSS.1125.21 3MSS.1125.41 3MSS.1125.51 3MSS.1126 3MSS.1126 3MSS.1128 3MSS.1128	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B/3-7) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 04-Nov-15 A 06-Nov-15 A 06-Nov-15 A 07-Nov-15 A 08-Dec-15 09-Dec-15 11-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 19-Dec-15	1 4 4 4 4 4 4 5 5 5 5	3,723m3 1,697m3	2 machines @ 700m3/day 2 machines @ 700m3/day	17 17 17 29 29	Initial Site formation Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A/2-10) Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-E/3-7) Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd tc +1.8mPD battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)	
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3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.21 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51 3MSS.1126 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1132 3MSS.1133 3MSS.1133 3MSS.1133 3MSS.1133 3MSS.1134 3MSS.1136 3MSS.1137 3MSS.1138 3MSS.1137 3MSS.1138 3MSS.1139 3MSS.1139 3MSS.1140 3MSS.1141	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4) Excavate +5.0Mpd to -1.8mPD battered slope (GL A-E/10-4) Excavate +5.0Mpd to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavation works for Pile - PC -3.3mPD)- (GL A-K/9-3) - Portion B1 - PC 39(2),50(2),59(2); PC72 - 33% Excavation works for Pile - PC 72 - 33% (S1) Excavation works for Pile - PC 72 - 33% (S1) Excavation works for Pile - PC 50 (02) Rebar /Earthing Installation - PC 50 (02) Rebar /Earthing Installation - PC 50 (02) Pile cap side formworks - Portion B1	02-Nov-15A 03-Nov-15A 04-Nov-15A 04-Nov-15A 06-Nov-15A 07-Nov-15A 09-Nov-15A 09-Dec-15 11-Dec-15 14-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 21-Dec-15	14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 23-Jan-16 23-Jan-16 23-Jec-15 24-Dec-15 23-Dec-15	1 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 391m3 380m3 5.6m3 5.6m3 5.6m3 355T 341T 5.04T 5.04T 5.04T 129m2 82m2 15.2m2	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 5 men @ 0.9T/man/day	17 17 29 29 29 29 17 17 29 29 17 36 36 36 36 17 17 37	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-K/9-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +1	6 (s1)
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PC 50 (02) Excavation works for Pile - PC 50 (02) Excavation works for Pile - PC 50 (02) Pile cap side formworks - PC 50 (02) Pile cap side f	02-Nov-15A 03-Nov-15A 04-Nov-15A 04-Nov-15A 06-Nov-15A 06-Nov-15A 09-Nov-15A 08-Dec-15 11-Dec-15 11-Dec-15 11-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 21-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 24-Dec-15	14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15 21-Dec-15 23-Jan-16 23-Jan-16 23-Jan-16 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 27-Jan-16 27-Jan-16 28-Dec-15	1 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 391m3 380m3 5.6m3 5.6m3 5.6m3 355T 341T 5.04T 5.04T 5.04T 129m2 82m2 15.2m2 15.2m2 15.2m2 15.2m2 380m3 5.6m3	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 5 men @ 0.9T/man/day	17 17 29 29 29 47 29 17 29 17 29 17 17 36 36 36 17 37 37 36 17 17 17 37	Initial Site formation Excavate +6.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-B/3-77) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-B/3-77) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 batter	
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3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31 3MSS.1125.31 3MSS.1125.31 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1129 3MSS.1131 Stage 1 - Pile C Portion B1 3MSS.1131 3MSS.1133 3MSS.1134 3MSS.1135 3MSS.1135 3MSS.1136 3MSS.1136 3MSS.1136 3MSS.1137 3MSS.1138 3MSS.1138 3MSS.1140 3MSS.1140 3MSS.1140 3MSS.1140 3MSS.1140 3MSS.1140 3MSS.1141 3MSS.1142 3MSS.1141 3MSS.1142 3MSS.1141 3MSS.1145 3MSS.1146 3MSS.1146 3MSS.1147 3MSS.1149 3MSS.1151 Portion B2 3MSS.1151	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A/E//9-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10') Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K'-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K'/9-3) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A/2-10') Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A/2-10') Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-B'/3-7') Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavation (Area B) Local Excavation for Pile caps (-3.3mPD)- (GL A-K'/9-3) - Portion B1 - PC 39(2),50(2),59(2) ; PC72 - 33% Excavation works for Pile - PC 39 (02) Excavation works for Pile - PC 59 (02) Excavation works for Pile - PC 59 (02) Excavation works for Pile - PC 59 (02) Rebar /Earthing Installation - PC 59 (02) Rebar /Earthing Installation - PC 59 (02) Rebar /Earthing Installation - PC 59 (02) Pile cap side formworks - PC 72 - 33% (s1) Pile cap side formworks - PC 72 - 33% (s1) Pile cap side formworks - PC 72 - 33% (s1) Pile cap side formworks - PC 59 (02) Pile cap side formworks - PC 59 (02) Pile cap side formworks - PC 59 (02) Concrete pouring - PC 72 - 33% (s1) Concrete pouring - PC 59 (02)	02-Nov-15A 03-Nov-15A 04-Nov-15A 04-Nov-15A 06-Nov-15A 09-Nov-15A 09-Nov-15A 08-Dec-15 11-Dec-15 11-Dec-15 11-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 24-Dec-15	14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 19-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15 22-Dec-15 23-Dec-15 23-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 29-Dec-15 24-Dec-15	1 4 4 4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 391m3 380m3 5.6m3 5.6m3 5.6m3 5.6m3 5.04T 5.04T 5.04T 5.04T 129m2 82m2 15.2m2 15.2m2 15.2m2 15.2m3 380m3 5.6m3 5.6m3 5.6m3	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 2 machine @ 190m3/day 2 machine @ 190m3/day 1 machine @ 22m2/d/man	17 17 17 29 29 29 47 29 17 17 29 29 17 17 36 36 36 17 37 37 37 37 37 37 37 37 39 29	Initial Site formation Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.A-K/9-3) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.K-A/8-3) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.K-A/8-3) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.K-C/2-6) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.A-C/2-6) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.A-C/2-6) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.A-C/2-6) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.A-K/9-3) Executed +1.8mPD for	
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3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31 3MSS.1125.31 3MSS.1125.31 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1129 3MSS.1131 Stage 1 - Pile C Portion B1 3MSS.1131 3MSS.1133 3MSS.1134 3MSS.1135 3MSS.1135 3MSS.1136 3MSS.1136 3MSS.1136 3MSS.1137 3MSS.1138 3MSS.1138 3MSS.1140 3MSS.1140 3MSS.1140 3MSS.1140 3MSS.1140 3MSS.1140 3MSS.1141 3MSS.1142 3MSS.1141 3MSS.1142 3MSS.1141 3MSS.1145 3MSS.1146 3MSS.1146 3MSS.1147 3MSS.1149 3MSS.1151 Portion B2 3MSS.1151	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A/E//9-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10') Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K'-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K'/9-3) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A/2-10') Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A/2-10') Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-B'/3-7') Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavation (Area B) Local Excavation for Pile caps (-3.3mPD)- (GL A-K'/9-3) - Portion B1 - PC 39(2),50(2),59(2) ; PC72 - 33% Excavation works for Pile - PC 39 (02) Excavation works for Pile - PC 59 (02) Excavation works for Pile - PC 59 (02) Excavation works for Pile - PC 59 (02) Rebar /Earthing Installation - PC 59 (02) Rebar /Earthing Installation - PC 59 (02) Rebar /Earthing Installation - PC 59 (02) Pile cap side formworks - PC 72 - 33% (s1) Pile cap side formworks - PC 72 - 33% (s1) Pile cap side formworks - PC 72 - 33% (s1) Pile cap side formworks - PC 59 (02) Pile cap side formworks - PC 59 (02) Pile cap side formworks - PC 59 (02) Concrete pouring - PC 72 - 33% (s1) Concrete pouring - PC 59 (02)	02-Nov-15A 03-Nov-15A 04-Nov-15A 04-Nov-15A 06-Nov-15A 09-Nov-15A 09-Nov-15A 08-Dec-15 11-Dec-15 11-Dec-15 11-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 24-Dec-15	14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 19-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15 22-Dec-15 23-Dec-15 23-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 29-Dec-15 24-Dec-15	1 4 4 4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 391m3 380m3 5.6m3 5.6m3 5.6m3 5.6m3 5.04T 5.04T 5.04T 5.04T 129m2 82m2 15.2m2 15.2m2 15.2m2 15.2m3 380m3 5.6m3 5.6m3 5.6m3	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 2 machine @ 190m3/day 2 machine @ 190m3/day 1 machine @ 22m2/d/man	17 17 17 29 29 29 47 29 17 17 29 29 17 17 36 36 36 17 37 37 37 37 37 37 37 37 39 29	Initial Site formation Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.A-K/9-3) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.K-A/8-3) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.K-A/8-3) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.K-C/2-6) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.A-C/2-6) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.A-C/2-6) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.A-C/2-6) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.A-K/9-3) Executed +1.8mPD for	



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Date Revision Checked Approved
22-Oct-15 MOBP/3MRP Prog Rev B Edgar Payos Leo Harnett
02-Dec-15 3MRP Rev B (1st Draft) Edgar Payos Leo Harnett

01100 117	Activity Name	Start	Finish	Original		Production		
01122 115				Duration	ו		Float	01 08 15 22 29 06 13 20 27 03 10 17 24 31 07 14 21 28 06 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
	Rebar Installation - PC 60 (02)	23-Dec-15	24-Dec-15	1	5.04T		49	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
	` '							
	Rebar Installation - PC 40 (07)	24-Dec-15	04-Jan-16	6	22.05T		35	Rebar Installation - PC 40 (07)
3MSS.1159 Re	Rebar Installation - PC 51 (02)	04-Jan-16	05-Jan-16	1	5.04T		35	Rebar Installation - PC 51 (02)
3MSS.1160 Pil	Pile cap side formworks - Portion B2	04-Jan-16	05-Jan-16	2	59m2	2 men @ 22m2/d/man	35	
3MSS.1161 Pil	Pile cap side formworks - PC 60 (02)	04-Jan-16	05-Jan-16	1	15.2m2		43	☐ Pile cap side formworks - PC 60 (02)
3MSS.1162 Pil	Pile cap side formworks - PC 40 (07)	04-Jan-16	05-Jan-16	2	28m2		35	Pile cap side formworks - PC 40 (07)
3MSS.1163 Pil	Pile cap side formworks - PC 51 (02)	05-Jan-16	05-Jan-16	1	15.2m2		35	I Pile cap side formworks - PC 51 (02)
	Portion B2 concrete pouring	06-Jan-16	06-Jan-16	1	36m3		35	a no cap sact formworks 1 C C 1 (c2)
				1				P
	concrete pouring - PC 60 (02)	06-Jan-16	06-Jan-16	1	5.6m3		42	☐ concrete pouring - PC 60 (02)
3MSS.1166 co	concrete pouring - PC 40 (07)	06-Jan-16	06-Jan-16	1	24.5m3		35	Concrete pouring - PC 40 (07)
3MSS.1167 co	concrete pouring - PC 51 (02)	06-Jan-16	06-Jan-16	1	5.6m3		35	□ concrete pouring - PC 51 (02)
Portion B3								
	Local Exc'n for Pile (GL A'-C/2-6) - Portion B3 - PC 41(2),52(2),61(2),61(1),16(6),30(s5),42(2),62(2),31(1),32(1),44	24-Dec-15	31-Dec-15	5	219m3	1 machine @ 190m3/day	44	
						· ·		F-1
	Excavation works for Pile - PC 62 (02)	24-Dec-15	28-Dec-15	1	5.6m3	1 machine @ 190m3/day	29	Excavation works for Pile - PC 62 (02)
3MSS.1170 Ex	Excavation works for Pile - PC 61 (02)	24-Dec-15	28-Dec-15	1	5.6m3	1 machine @ 190m3/day	29	Excavation works for Pile - PC 61 (02)
3MSS.1171 Ex	Excavation works for Pile - PC 53 (02)	24-Dec-15	28-Dec-15	1	5.6m3	1 machine @ 190m3/day	29	Exclavation works for Pile - PC 53 (02)
3MSS.1172 Ex	Excavation works for Pile - PC 52 (02)	24-Dec-15	28-Dec-15	1	5.6m3	1 machine @ 190m3/day	29	Excavation works for Pile - PC 52 (02)
3MSS.1173 Ex	Excavation works for Pile - PC 54 (02)	24-Dec-15	28-Dec-15	1	5.6m3	1 machine @ 190m3/day	29	Excavation works for Pile - PC 54 (02)
	Excavation works for Pile - PC 41 (02)			2	5.6m3		29	Excavation works for Pile - PC 41 (02)
		28-Dec-15	31-Dec-15	3		1 machine @ 190m3/day		
	Excavation works for Pile - PC 42 (07)	28-Dec-15	31-Dec-15	3	24.5m3	1 machine @ 190m3/day	29	Excavation works for Pile - PC 42 (07)
3MSS.1176 Ex	Excavation works for Pile - PC 44 (02)	28-Dec-15	31-Dec-15	3	5.6m3	1 machine @ 190m3/day	29	Excavation works for Pile - PC 44 (02)
3MSS.1177 Ex	Excavation works for Pile - PC 43 (02)	28-Dec-15	31-Dec-15	3	5.6m3	1 machine @ 190m3/day	29	Excavation works for Pile - PC 43 (02)
	Excavation works for Pile - PC 30 (S5)	28-Dec-15	31-Dec-15	3	142m3	1 machine @ 190m3/day	29	Excavation works for Pile - PC 30 (S5)
	Excavation works for Pile - PC 32 (01)	31-Dec-15	31-Dec-15	1	2m3	1 machine @ 190m3/day	44	II Exception works for Pile - PC 32 (01)
	·					· · · · · · · · · · · · · · · · · · ·		<u> </u>
	Excavation works for Pile - PC 31 (01)	31-Dec-15	31-Dec-15	1	2m3	1 machine @ 190m3/day	44	II: Excavation works for Pile - PC 31 (01)
	Excavation works for Pile - PC 16 (01)	31-Dec-15	31-Dec-15	1	2m3	1 machine @ 190m3/day	44	II: Excavation works for Pile - PC 16 (01)
3MSS.1182 Ex	Excavation works for Pile - PC 15 (01)	31-Dec-15	31-Dec-15	1	2m3	1 machine @ 190m3/day	44	© Excavation works for Pile - PC 15 (01)
	Rebar Installation - Portion B3	28-Dec-15	02-Jan-16	5	176T	5 men @ 0.9T/man/day	44	
	Rebar Installation - PC 62 (02)		28-Dec-15	1	5.04T	S olo i/mairady	48	☐ Rebar Installation - PC 62 (02)
		28-Dec-15						
	Rebar Installation - PC 61 (02)	28-Dec-15	28-Dec-15	1	5.04T		48	☐ Rebar Installation - PC 61 (02)
3MSS.1186 Re	Rebar Installation - PC 53 (02)	28-Dec-15	28-Dec-15	1	5.04T		49	Rebar Installation - PC 53 (02)
3MSS.1187 Re	Rebar Installation - PC 52 (02)	28-Dec-15	28-Dec-15	1	5.04T		49	□ Rebar Installation - PC 52 (02)
	Rebar Installation -PC 54 (02)	28-Dec-15	28-Dec-15	1	5.04T		49	☐ Rebar Installation -PC 54 (02)
	Rebar Installation - PC 41 (02)	02-Jan-16	06-Jan-16	3	5.04T		43	Rebar Installation - PC 41 (02)
					22.05T		42	•
	Rebar Installation - PC 42 (07)	31-Dec-15	07-Jan-16	5				Rebar Installation - PC 42 (07)
3MSS.1191 Re	Rebar Installation -PC 44 (02)	31-Dec-15	05-Jan-16	3	5.04T		45	Rebar Installation -PC 44 (02)
3MSS.1192 Re	Rebar Installation - PC 43 (02)	31-Dec-15	05-Jan-16	3	5.04T		45	Rebar Installation - PC 43 (02)
3MSS.1193 Re	Rebar /Earthing Installation - PC 30 (S5)	31-Dec-15	22-Jan-16	18	128.55T		29	Rebar / Earthing Installation - PC 30 (S5)
	Rebar Installation - PC 32 (01)	02-Jan-16	02-Jan-16	1	1.8T		44	Rebar Installation - PC 32 (01)
	Rebar Installation - PC 31 (01)	02-Jan-16	02-Jan-16	1	1.8T		44	□ Rebar Installation - PC 31 (01)
3MSS.1196 Re	Rebar /Earthing Installation - PC 16 (01)	02-Jan-16	02-Jan-16	1	1.8T		44	Rebar /Earthing Installation - PC 16 (01)
3MSS.1197 Re	Rebar Installation - PC 15 (01)	02-Jan-16	02-Jan-16	1	1.8T		44	I Rebar Installation - PC 15 (01)
3MSS.1198 Pil	Pile cap side formworks - Portion B3	29-Dec-15	04-Jan-16	5	169m2	2 men @ 22m2/d/man	44	
	Pile cap side formworks - PC 62 (02)	29-Dec-15	29-Dec-15	1	15.2m2		48	I Pile cap side formworks - PC 62 (02)
				1			48	
	Pile cap side formworks - PC 61 (02)	29-Dec-15	29-Dec-15	1	15.2m2			
	Pile cap side formworks - PC 53 (02)	29-Dec-15	29-Dec-15	1	15.2m2		49	I Pile cap side formworks - PC 53 (02)
3MSS.1202 Pil	Pile cap side formworks - PC 52 (02)	29-Dec-15	29-Dec-15	1	15.2m2		49	Pile cap side formworks - PC 52 (02)
3MSS.1203 Pil	Pile cap side formworks -PC 54 (02)	29-Dec-15	29-Dec-15	1	15.2m2		49	I Pile cap side formworks -PC 54 (02)
	Pile cap side formworks -PC 41 (02)	06-Jan-16	07-Jan-16	1	15.2m2		43	☐ Pile cap side formworks -PC 41 (02)
	Pile cap side formworks - PC 42 (07)	07-Jan-16	09-Jan-16	2	28m2		42	□ Pile cap side formworks - PC 42 (07)
	Pile cap side formworks -PC 44 (02)	08-Jan-16	09-Jan-16	1	15.2m2		42	☐ Pile cap side formworks -PC 44 (02)
3MSS.1207 Pil	Pile cap side formworks - PC 43 (02)	08-Jan-16	09-Jan-16	1	15.2m2		42	Pile cap side formworks - PC 43 (02)
3MSS.1208 Pil	Pile cap side formworks - PC 30 (S5)	22-Jan-16	26-Jan-16	3	69m2		29	Pile cap side forrhw∳rks - PC 30 (S5)
3MSS.1209 Pil	Pile cap side formworks - PC 32 (01)	02-Jan-16	04-Jan-16	1	8m2		44	☐ Pile cap side formworks - PC 32 (01)
	Pile cap side formworks - PC 31 (01)	02-Jan-16	04-Jan-16	1	8m2		44	□ Pile cap side formworks - PC 31 (01)
	•		04-Jan-16	1	8m2		44	Pite cap side formworks - PC 16 (01)
	Pile cap side formworks -PC 16 (01)	02-Jan-16		1		-		
	Pile cap side formworks - PC 15 (01)	02-Jan-16	04-Jan-16	1	8m2		44	☐ Pile cap side formworks - PC 15 (01)
3MSS.1213 Po	Portion B3 concrete pouring	04-Jan-16	04-Jan-16	0	190m3		44	
3MSS.1214 Co	Concrete pouring - PC 62 (02)	04-Jan-16	05-Jan-16	1	5.6m3		45	☐ Concrete pouring - PC 62 (02)
	Concrete pouring - PC 61 (02)	04-Jan-16	05-Jan-16	1	5.6m3		45	☐ Concrete pouring - PC 61 (02)
	Concrete pouring - PC 53 (02)	04-Jan-16	05-Jan-16	1	5.6m3		46	Concrete pouring - PC 53 (02)
		04-Jan-16	05-Jan-16	4	5.6m3		46	
	Concrete pouring - PC 52 (02)			1				Concrete pouring - PC 52 (02)
	Concrete pouring - PC 54 (02)	04-Jan-16	05-Jan-16	1	5.6m3		46	☐ Concrete pouring - PC 54 (02)
	Concrete pouring - PC 41 (02)	07-Jan-16	08-Jan-16	1	5.6m3		43	☐ Concrete pouring - PC 41 (02)
3MSS.1220 Co	Concrete pouring - PC 42 (07)	09-Jan-16	11-Jan-16	1	25m3		42	Concrete pouring - PC 42 (07)
	Concrete pouring - PC 44 (02)	09-Jan-16	11-Jan-16	1	5.6m3		42	Concrete pouring - PC 44 (02)
	Concrete pouring - PC 43 (02)	09-Jan-16	11-Jan-16	1	5.6m3		42	Concrete pouring - PC 43 (02)
	Concrete pouring - PC 30 (S5)	26-Jan-16	28-Jan-16	2	142m3		29	Gordete pouring - PC 30 (S5)
	Concrete pouring - PC 32 (01)	11-Jan-16	11-Jan-16	1	2m3		87	Concrete pouring - PC 32 (01):
	Concrete pouring - PC 31 (01)	11-Jan-16	11-Jan-16	1	2m3		87	Concrete pouring - PC 31 (01)
3MSS.1226 Co	Concrete pouring - PC 16 (01)	04-Jan-16	05-Jan-16	1	2m3		44	☐ Concrete pouring - PC 16 (01)
	Concrete pouring - PC 15 (01)	04-Jan-16	05-Jan-16	1	2m3		44	☐ Concrete pouring - PC 15 (01)
	8,40,1,11) - Portion B		,			<u> </u>		
		00 D :-	00.5		5.0	1 1: 0::22		
	Excavation (Type 12) - GL 5/A-B	29-Dec-15	30-Dec-15	1	5m3	1 machine @ 190m3/day	45	Excavation (Type 12) - GL 5/A-B
3MSS.1301 Re	Rebar Installation (Type 12) - GL 5/A-B	30-Dec-15	31-Dec-15	1			45	Rebar Installation (Type 12) - GL 5/A-B
3MSS.1302 Fo	Formworks (Type 12) - GL 5/A-B	31-Dec-15	02-Jan-16	1			45	Formworks (Type 12) - GL 5/A-B
	Concrete Pouring (Type 12) - GL 5/A-B	02-Jan-16	04-Jan-16	1			45	☐ Concrete Pouring (Type 12) - GL 5/A-B
	Excavation (Type 8) - GL 6-7/B-C	07-Jan-16	07-Jan-16	1	5m3	1 machine @ 190m3/day	43	■ Excavation (Type 8) - GL 6-7/B-C
21VIDO 13114				1	JIIIJ	i madilile @ 190m3/day		
	Rebar Installation (Type 8) - GL 6-7/B-C	08-Jan-16	08-Jan-16	1			42	Rebar Installation (Type 8) - GL 6-7/B-C
3MSS.1305 Re	Formworks (Type 8) - GL 6-7/B-C	09-Jan-16	09-Jan-16	1			42	■ Formworks (Type 8) - GL 6-7/B-C
3MSS.1305 Re		11-Jan-16	11-Jan-16	1			43	□ Concrete Pouring (Type 8) - GL 6-7/B-C
3MSS.1305 Re 3MSS.1306 Fc	Concrete Pouring (Type 8) - GL 6-7/B-C							
3MSS.1305 Re 3MSS.1306 Fc 3MSS.1307 Cc	Concrete Pouring (Type 8) - GL 6-7/B-C Excavation (Type 40) - GL 6-7/C-D		08- lan 16	- 1	5m ²	1 machine @ 100m2/dov	NO.	Fycavation (Type 40) CL 6.7/C D
3MSS.1305 Re 3MSS.1306 Fc 3MSS.1307 Cc 3MSS.1308 Ex	Excavation (Type 40) - GL 6-7/C-D	08-Jan-16	08-Jan-16	1	5m3	1 machine @ 190m3/day	42	■ Excavation (Type 40) - GL 6-7/C-D
3MSS.1305 Re 3MSS.1306 Fc 3MSS.1307 Cc 3MSS.1308 Ex 3MSS.1309 Re	Excavation (Type 40) - GL 6-7/C-D Rebar Installation (Type 40) - GL 6-7/C-D	08-Jan-16 09-Jan-16	09-Jan-16	1	5m3	1 machine @ 190m3/day	42	Rebar Installation (Type 40) - GL 6-7/C-D
3MSS.1305 Rt 3MSS.1306 FC 3MSS.1307 CC 3MSS.1308 Ex 3MSS.1309 Rt 3MSS.1310 FC	Excavation (Type 40) - GL 6-7/C-D Rebar Installation (Type 40) - GL 6-7/C-D Formworks (Type 40) - GL 6-7/C-D	08-Jan-16 09-Jan-16 11-Jan-16		1 1 1	5m3	1 machine @ 190m3/day	42 42	Rebar Installation (Type 40) - GL 6-7/C-D Formworks (Type 40) - GL 6-7/C-D
3MSS.1305 Rt 3MSS.1306 FC 3MSS.1307 CC 3MSS.1308 Ex 3MSS.1309 Rt 3MSS.1310 FC	Excavation (Type 40) - GL 6-7/C-D Rebar Installation (Type 40) - GL 6-7/C-D	08-Jan-16 09-Jan-16	09-Jan-16	1 1 1 0	5m3	1 machine @ 190m3/day	42	☐ Rebar Installation (Type 40) - GL 6-7/C-D



ID	Activity Name	Start	Finish	Original Qua Duration	nts Production	Total Float	November December January February 08 15 22 29 06 13 20 27 03 10 17 24 31 07 14 21 28
3MSS.1312	Excavation (Type 1) - GL 4-5/C-D	09-Jan-16	09-Jan-16	1 5m3	1 machine @ 190m3/day	42	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 © Excavation (Type 1) - GL 4-5/C-D
3MSS.1313	Rebar Installation (Type 1) - GL 4-5/C-D	11-Jan-16	11-Jan-16	1		42	Rebar Installation (Type 1) - GL 4-5/C-D
3MSS.1314	Formworks (Type 1) - GL 4-5/C-D	12-Jan-16	12-Jan-16	1		42	Formworks (Type 1) - GL 4-5/C-D
3MSS.1315	Concrete Pouring (Type 1) - GL 4-5/C-D	13-Jan-16	13-Jan-16	0 1 5m3	1 machine @ 190m3/day	43 42	Concrete Pouring (Type 1) - GL 4-5/C-D
3MSS.1316 3MSS.1317	Excavation (Type 11) - GL 5-6/D Rebar Installation (Type 11) - GL 5-6/D	11-Jan-16 12-Jan-16	11-Jan-16 12-Jan-16	1 51113	i machine @ 190ms/day	42	☐ Excavation (Type 11) - GL 5-6/D ☐ Rebar Installation (Type 11) - GL 5-6/D
3MSS.1318	Formworks (Type 11) - GL5-6/D	13-Jan-16	13-Jan-16	1		42	Formworks (Type 11) - GL5-6/D
3MSS.1319	Concrete Pouring (Type 11) - GL 5-6/D	14-Jan-16	14-Jan-16	1		42	☐ Concrete Pouring (Type 1:t) - GL 5-6/D
ift / Escalator Pit	Pit						
Lift Pit (GL 3-4/B	B'-C')						
3MSS.1320	Excavation	31-Dec-15	04-Jan-16	2 5m3	1 machine @ 190m3/day	88	Excavation
3MSS.1321	Rebar Installation	04-Jan-16	06-Jan-16	2		88	Rebar Installation
3MSS.1322	Formworks	06-Jan-16	08-Jan-16	2		88	Formworks
3MSS.1323	Concrete Pouring	08-Jan-16	09-Jan-16	1		88	□ Concrete Pouring
Escalator Pit (GL 3MSS.1324		29 Dec 15	30-Dec-15	2 5m3	1 machine @ 190m3/day	43	■ Excavation
3MSS.1325	Excavation Rebar Installation	28-Dec-15 30-Dec-15	02-Jan-16	2 5m3	T machine @ 190ms/day	43	Excavation Rebar Installation
3MSS.1326	Formworks	02-Jan-16	05-Jan-16	2		44	Formworks
3MSS.1327	Concrete Pouring	05-Jan-16	06-Jan-16	1		44	☐ Concrete Pouring
tage 1 - Underg	ground Drainage	· ·			,		
3MSS.1328	Installation of Underground Drainage below B2 Slab - Portion A1 (2 Nr of M/H)	23-Dec-15	31-Dec-15	5 2 N		0	Installation of Underground Drainage below B2 Slab - Portion A1 (2 Nr of M/H)
3MSS.1329	Preparation of Formworks & Cast underground pipes - Portion A1	31-Dec-15	04-Jan-16	2		0	Preparation of Formworks & Cast underground pipes - Portion A1
3MSS.1330	Installation of Underground Drainage below B2 Slab - Portion A2 (2 Nr of M/H)	31-Dec-15	07-Jan-16	5 1 N		8	Installation of Underground Drainage below B2 Stab - Portion A2 (2 Nr of M/H)
3MSS.1331	Preparation of Formworks & Cast underground pipes - Portion A2	07-Jan-16	09-Jan-16	2		8	Preparation of Formworks & Cast underground pipes - Portion A2
3MSS.1332	Installation of Underground Drainage below B2 Slab - Portion A3 (2 Nr of M/H)	07-Jan-16	13-Jan-16	5 1 N		16	Installation of Underground Drainage below B2 Slab - Portion A3 (2 Nr of M/H)
BMSS.1333	Preparation of Formworks & Cast underground pipes - Portion A3	13-Jan-16	15-Jan-16	2 5 1 N		16 17	Preparation of Formworks & Cast underground pipes - Portion A3 Installation of Underground Drainage below B2 Slab - Po
3MSS.1334 3MSS.1335	Installation of Underground Drainage below B2 Slab - Portion B1 (1 Nr of M/H) Preparation of Formworks & Cast underground pipes - Portion B1	21-Jan-16 27-Jan-16	27-Jan-16 29-Jan-16	5 1 N		23	Installation of Underground Drainage below B2 Stab; Po
BMSS.1335	Installation of Underground Drainage below B2 Slab - Portion B2 (3 Nr of M/H)	27-Jan-16 27-Jan-16	29-Jan-16 02-Feb-16	5 1 N		17	Preparation of Formworks & Cast underground pipes Installation of Underground Drainage below B2
MSS.1337	Preparation of Formworks & Cast underground pipes - Portion B2	02-Feb-16	04-Feb-16	2		17	□ Predzation of Formworks & Cast undergro
MSS.1338	Installation of Underground Drainage below B2 Slab - Portion B3 (1 Nr of M/H)	02-Feb-16	11-Feb-16	5 3 N		19	Installation of Underground Drai
BMSS.1339	Preparation of Formworks & Cast underground pipes - Portion B3	11-Feb-16	13-Feb-16	2		19	Preparation of Formworks &
ower Crane No 1							
MSS.1340	Position Sign-off for TC1	28-Nov-15	28-Nov-15	1		0	Position Sign-off for TC1
MSS.1341	Design submission and approval	30-Nov-15	24-Dec-15	21		0	Design submission and approval
MSS.1342	Mobilization & procurement	28-Dec-15	01-Feb-16	30		0	Mobilization & procurement
MSS.1343	Blinding and Waterproofing	02-Feb-16	04-Feb-16	2		0	Blinding and Waterproofing
MSS.1344 MSS.1345	Rebar Installation - Tower Cranes no 1 Base Casting	04-Feb-16 13-Feb-16	13-Feb-16	5		0	Rebar Installation - Tower Cr. Formworks Installation -
MSS.1346	Formworks Installation - Tower Cranes no 1 Base Casting Concrete Casting	16-Feb-16	16-Feb-16 17-Feb-16	1		0	Concrete Casting
age 2	Condition Consumy	10-1 65-10	17-1 60-10	'		U	■ Convete Casing
	ab Construction						
3MSS.1347	Backfill and Roll - Portion A1	07-Jan-16	11-Jan-16	3 113	n3 @ 40m3/day per gang	0	Backfill and Roll - Portion A1
3MSS.1348	Waterproofing works - Portion A1	11-Jan-16	14-Jan-16	3 750	71 0 0	0	Waterproofing works - Portion A1
BMSS.1349	Lay Rebar for B2 Slab - Portion A1	14-Jan-16	13-Feb-16	23 610	7. 0 0	0	Lay Rebar for B2 Slab - Port
MSS.1350	Formworks for B2 Slab - Portion A1	13-Feb-16	16-Feb-16	2 85m	2	0	Formworks for B2 Ślab
MSS.1351	Concrete Pouring - Portion A1	16-Feb-16	17-Feb-16	1 488	13	0	■ Concrete Pouring - Po
MSS.1352	Backfill and Roll - Portion A2	16-Jan-16	19-Jan-16	2 84m		2	Backfill and Roll - Portion A2
3MSS.1353	Waterproofing works - Portion A2	19-Jan-16	21-Jan-16	2 750		2	Water proofing; works - Plorsion A2
BMSS.1354 BMSS.1355	Lay Rebar for B2 Slab - Portion A2 Formworks for B2 Slab - Portion A2	21-Jan-16 16-Feb-16	13-Feb-16 17-Feb-16	17 454 1 64m		0	Lay Rebar for B2 Slab - Porti
MSS.1356	Concrete Pouring - Portion A2	17-Feb-16	18-Feb-16	1 363		0	Concrete Pouring - P
MSS.1357	Backfill and Roll - Portion A3	29-Jan-16	30-Jan-16	1 28m		4	■ Backfill and Roll - Portion A3
MSS.1358	Water proofing works - Portion A3	30-Jan-16	01-Feb-16	1 750		4	Water propfing works - Portion A3
MSS.1359	Lay Rebar for B2 Slab - Portion A3	03-Feb-16	13-Feb-16	6 152		2	Lay Rebar for B2 Slab - Port
MSS.1360	Formworks for B2 Slab - Portion A3	16-Feb-16	17-Feb-16	1 36m		0	■ Formworks for B2 Slab
MSS.1361	Concrete Pouring - Portion A3	17-Feb-16	18-Feb-16	1 122		0	■ Concrete Pouring - P
/ISS.1362	Backfill and Roll - Portion B1	29-Jan-16	01-Feb-16	2 95m	71 0 0	23	Backfil and Roll - Portion B1
MSS.1363	Waterproofing works - Portion B1	01-Feb-16	03-Feb-16	2 750		23	☐ Water proofing works - Portion B1
MSS.1367	Backfill and Roll - Portion B2	13-Feb-16	16-Feb-16	2 77m	7. 0 0	17	Backfill and Roll - Portion
MSS.1368 MSS.1372	Waterproofing works - Portion B2 Backfill and Roll - Portion B3	16-Feb-16 16-Feb-16	18-Feb-16 20-Feb-16	2 750 4 158	71 0 0	19 17	Waterproofing works
MSS.1372 MSS.1373	Waterproofing works - Portion B3	20-Feb-16	20-Feb-16 25-Feb-16	4 158 4 750		17	Backdill and Roll-
	promation & Pile Cap Construction	20-1-60-10	20.1 CD=10	7 730	© 500mizruay per gang	11	Vale po
ortion A4							
MSS.1377	Excavate to -2.3mPD for B2 Slab Formation Level (GL F'-H'//'-2') - Portion A4	18-Feb-16	25-Feb-16	6 122	m3 1 machines @ 350m3/day	0	Excayate
BMSS.1378	Excavation works for Pile -PC 09 (02)	25-Feb-16	26-Feb-16	1 36m		0	Exclavati
			26-Feb-16	1 18m		0	■ Excavati
	Excavation works for Pile -PC 10 (01)	25-Feb-16				0	■ Exclavati
MSS.1379	Excavation works for Pile -PC 10 (01) Excavation works for Pile -PC 54 (03)	25-Feb-16 25-Feb-16	26-Feb-16	1 57m	1 machine @ 190m3/day		
MSS.1379 MSS.1380 MSS.1381	Excavation works for Pile -PC 54 (03) Excavation works for Pile -PC 55 (03)	25-Feb-16 25-Feb-16	26-Feb-16	1 57m	1 machine @ 190m3/day	0	■ Exc≱vati
MSS.1379 MSS.1380 MSS.1381 MSS.1382	Excavation works for Pile -PC 54 (03) Excavation works for Pile -PC 55 (03) Excavation works for Pile -PC 51 (02)	25-Feb-16 25-Feb-16 25-Feb-16	26-Feb-16 26-Feb-16	1 57m 1 36m	1 machine @ 190m3/day 1 machine @ 190m3/day	0	■ Exc≱vati
MSS.1379 MSS.1380 MSS.1381 MSS.1382 MSS.1383	Excavation works for Pile -PC 54 (03) Excavation works for Pile -PC 55 (03) Excavation works for Pile -PC 51 (02) Excavation works for Pile -PC 45 (07)	25-Feb-16 25-Feb-16 25-Feb-16 25-Feb-16	26-Feb-16 26-Feb-16 26-Feb-16	1 57m	1 machine @ 190m3/day 1 machine @ 190m3/day	0 0 0	■ Exc≱vati ■ Excavati ■ Excavati
MSS.1379 MSS.1380 MSS.1381 MSS.1382 MSS.1383 MSS.1384	Excavation works for Pile -PC 54 (03) Excavation works for Pile -PC 55 (03) Excavation works for Pile -PC 51 (02) Excavation works for Pile -PC 45 (07) Rebar Installation - PC 09 (02)	25-Feb-16 25-Feb-16 25-Feb-16 25-Feb-16 26-Feb-16	26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16	1 57m 1 36m 1 81m	1 machine @ 190m3/day 1 machine @ 190m3/day	0 0 0 2	■ Exc≱vati ■ Excavati ■ Excavati ■ Rebar I
MSS.1379 MSS.1380 MSS.1381 MSS.1382 MSS.1383 MSS.1384 MSS.1385	Excavation works for Pile -PC 54 (03) Excavation works for Pile -PC 55 (03) Excavation works for Pile -PC 51 (02) Excavation works for Pile -PC 45 (07) Rebar Installation - PC 09 (02) Rebar Installation - PC 10 (01)	25-Feb-16 25-Feb-16 25-Feb-16 25-Feb-16 26-Feb-16	26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16	1 57m 1 36m 1 81m 1	1 machine @ 190m3/day 1 machine @ 190m3/day	0 0 0 2 2	■ Excavati ■ Excavati ■ Excavati ■ Rebar I ■ Rebar I
8MSS.1379 8MSS.1380 8MSS.1381 8MSS.1382 8MSS.1383 8MSS.1384 8MSS.1385 8MSS.1386	Excavation works for Pile -PC 54 (03) Excavation works for Pile -PC 55 (03) Excavation works for Pile -PC 51 (02) Excavation works for Pile -PC 45 (07) Rebar Installation - PC 09 (02) Rebar Installation - PC 10 (01) Rebar Installation - PC 54 (03)	25-Feb-16 25-Feb-16 25-Feb-16 25-Feb-16 26-Feb-16 26-Feb-16	26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 01-Mar-16	1 57m 1 36m 1 81m 1 1	1 machine @ 190m3/day 1 machine @ 190m3/day	0 0 0 2 2 2	■ Exc≱vati ■ Excavati ■ Exchavati ■ Rebar I ■ Rebar
8MSS.1379 8MSS.1380 8MSS.1381 8MSS.1383 8MSS.1383 8MSS.1383 8MSS.1386 8MSS.1386	Excavation works for Pile -PC 54 (03) Excavation works for Pile -PC 55 (03) Excavation works for Pile -PC 51 (02) Excavation works for Pile -PC 45 (07) Rebar Installation - PC 09 (02) Rebar Installation - PC 10 (01) Rebar Installation - PC 55 (03) Rebar Installation - PC 55 (03)	25-Feb-16 25-Feb-16 25-Feb-16 25-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16	26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 01-Mar-16 01-Mar-16	1 57m 1 36m 1 81m 1	1 machine @ 190m3/day 1 machine @ 190m3/day	0 0 0 2 2 2 0	Excavati
MSS.1379 MSS.1380 MSS.1381 MSS.1382 MSS.1383 MSS.1384 MSS.1385 MSS.1386 MSS.1386 MSS.1386 MSS.1387 MSS.1387	Excavation works for Pile -PC 54 (03) Excavation works for Pile -PC 55 (03) Excavation works for Pile -PC 51 (02) Excavation works for Pile -PC 45 (07) Rebar Installation - PC 09 (02) Rebar Installation - PC 10 (01) Rebar Installation - PC 55 (03) Rebar Installation - PC 55 (03) Rebar Installation - PC 51 (02)	25-Feb-16 25-Feb-16 25-Feb-16 25-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16	26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 01-Mar-16 01-Mar-16 26-Feb-16	1 57m 1 36m 1 81m 1 1	1 machine @ 190m3/day 1 machine @ 190m3/day	0 0 0 2 2 2	Excavati
8MSS.1379 8MSS.1380 8MSS.1381 8MSS.1382 8MSS.1383 8MSS.1384 8MSS.1385 8MSS.1386 8MSS.1386	Excavation works for Pile -PC 54 (03) Excavation works for Pile -PC 55 (03) Excavation works for Pile -PC 51 (02) Excavation works for Pile -PC 45 (07) Rebar Installation - PC 09 (02) Rebar Installation - PC 10 (01) Rebar Installation - PC 55 (03) Rebar Installation - PC 55 (03)	25-Feb-16 25-Feb-16 25-Feb-16 25-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16	26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 01-Mar-16 01-Mar-16	1 57m 1 36m 1 81m 1 1	1 machine @ 190m3/day 1 machine @ 190m3/day	0 0 0 2 2 2 0 0	Excavati
MSS.1379 MSS.1380 MSS.1381 MSS.1382 MSS.1382 MSS.1383 MSS.1384 MSS.1385 MSS.1386 MSS.1387 MSS.1388 MSS.1388 MSS.1389 MSS.1390	Excavation works for Pile -PC 54 (03) Excavation works for Pile -PC 55 (03) Excavation works for Pile -PC 51 (02) Excavation works for Pile -PC 45 (07) Rebar Installation - PC 09 (02) Rebar Installation - PC 10 (01) Rebar Installation - PC 54 (03) Rebar Installation - PC 55 (03) Rebar Installation - PC 51 (02) Rebar Installation - PC 51 (02) Rebar Installation - PC 45 (07)	25-Feb-16 25-Feb-16 25-Feb-16 25-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16	26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 01-Mar-16 01-Mar-16 26-Feb-16 03-Mar-16	1 57m 1 36m 1 81m 1 1	1 machine @ 190m3/day 1 machine @ 190m3/day	0 0 0 2 2 2 0 0	Excavati
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7	M+3 Months Rolling Programme											
'	Date	Revision	Checked	Approved								
	22-Oct-15	MOBP/3MRP Prog Rev B	Edgar Payos	Leo Harnett								
	02-Dec-15	3MRP Rev B (1st Draft)	Edgar Payos	Leo Harnett								

Activity ID	Activity Name	Start	Finish	Original Quants Duration	Production	Total	November	December	January		February	March
				Duration		Float	01 08 15 22	29 06 13 20 2 10 11 12 13 1	7 03 10 17 24	31	07 14	21 28 (
3MSS,1396	concrete pouring - PC 09 (02)	27-Feb-16 2	29-Feb-16	1		4	0 1 9		10 17 10	19	20 21	concrete
3MSS.1397	concrete pouring - PC 10 (01)		29-Feb-16	1		4						concrete
3MSS.1398	concrete pouring - PC 54 (03)		02-Mar-16	1		2						■ concre
3MSS.1399	concrete pouring - PC 55 (03)		02-Mar-16	1		2						concre
3MSS.1400	concrete pouring - PC 51 (02)		02-Mar-16	1		2						■ concre
3MSS.1401	concrete pouring - PC 45 (07)		04-Mar-16	1		0						l co
Portion A5	The state of the s	2.1.14										-
3MSS,1402	Excavate to -2.3mPD for B2 Slab Formation Level (GL H'-J/1-3) - Portion A5	25-Feb-16 0	03-Mar-16	6 1971m3	1 machines @ 350m3/day	27	1					Exca
3MSS.1403	Excavate to -2.3ml D for B2 Slab battered slope (GL H'-J'/7'-2) - Portion A5 (N)		05-Mar-16	2 799m3	1 machines @ 350m3/day	27	1					
3MSS.1404	Excavate to -2.3ml D for B2 Slab battered slope (GLF1-4/1-2) - Portion A5 (N)		08-Mar-16	2 799m3	1 machines @ 350m3/day	27						
M+ AEL South	, , , , ,	03-Wai - 10	JO-IVIAI - TO	2 793113	Timacinies & 330m3/day	21	 					
							4					
East Pile Cap	(Core wall)						4					
3MSS.S001	Excavate to Reduce levels +2.45mPD	11-Dec-15 A 14	4-Dec-15 A	2 464m3	1 machine @ 190m3/day			Excavate to Reduce leve	els +2.45mPD			
3MSS.S002	Battered Slope	14-Dec-15 1	17-Dec-15	3 510m3		193		Battered Slope				
3MSS.S003	Rebar Installation	17-Dec-15 2	23-Feb-16	51 699T	15men @ 0.9ton/m/day	193			1			Rebar Installation
3MSS.S004	Formworks Installation	23-Feb-16 2	29-Feb-16	5 209m2	2 men @ 22m2/d/man	193			!			Formwor
3MSS.S005	Concrete pouring	29-Feb-16 0	01-Mar-16	1 777m3		193						Concret
DCS Structure							4					
3MSS.D000	Dewatering - Installation and Test	02-Dec-15 2	21-Dec-15	16		243	1	Dewatering	- Installation and Test			
3MSS.D001	Excavate from +5.50mPD (Existing Level) to +4.85mPD		30-Dec-15	3 427m3	1 machine @ 190m3/day	242	1		Excavate from +5.50mPD (Existing Level) to	±4.85mPD		
3MSS.D001	Excavate from +4.85mPD to +3.70mPD		05-Jan-16	4 756m3	1 machine @ 190m3/day	242	<u> </u>	 	Excavate from +4.85mPD to +3.70			·
3MSS.D002	Install 1st Layer Struts at +4.2mPD		20-Jan-16	13	T machine @ 190m3/day	242	1		Install 1st		2mPD	
3MSS.D003	Excavate from +3.5 to -0.50mPD		25-5an-16 05-Feb-16	14 2764m3	1 machine @ 190m3/day	240	1		IIIstaii 1st		xcavate from +3.5 t	o 0.50mPD
3MSS.D004 3MSS.D005	Excavate to -0.5mPD to -2.5mPD		03-Mar-16	7 1316m3	-	240	1			<u> </u>	Adavate II OIII +3.5 t	Exca
3MSS.D005	Install 2nd Layer Struts at 0.0mPD (w/ preloading)		24-Feb-16	13	T machine & 190m3/day	240	1					Install 2nd Laver S
Tower Crane N		03-1-60-10 2	24-1-60-10	13		240	1					ilistali 4liu Layer C
							4					
3MSS.T002	Position Sign-off for TC3		28-Nov-15	1		263	-	Position Sign-off for TC3				
3MSS.T003	Design submission and approval		10-Dec-15	10		263	-	Design submission and approv	· ·			
3MSS.T004	Mobilization & procurement		31-Dec-15	15		263	-		Mobilization & procurement			
3MSS.T006	Excavate ro reduce level +2.45mPD		08-Jan-16	1 464m3	350m3/day	259	 		■ Excavate ro reduce level +2.4			,
3MSS.T007	Excavate battered slope		12-Jan-16	3 510m3	350m3/day	259	-		Excavate battered slop	i		
3MSS.T008	Excavation for TC3 Base		15-Jan-16	2 6m3	1 machine @ 190m3/day	259			Excavation for TC			
3MSS.T009	Construction of Pile Caps for TC3 Base	15-Jan-16 0	06-Feb-16	19		259					Construction of Pile	Caps for TC3 Base
M+.70 Externa	l Works						4					
Interfacing Wo	rks											
	uence Along Interface south of AEL						1					
							A.					
Pile Cap 95 (M							4					-
3MIF.I001	Excavate to Reduce levels +3.9mPD		02-Mar-16	1 7m3	1 machine @ 190m3/day	193	-1					☐ Excav
3MIF.I002	Battered Slope		03-Mar-16	1 42m3		193	-					☐ Batte
3MIF.I003	Rebar Installation		05-Mar-16	2 6.45T	5men @ 0.9ton/m/day	193	4					R
3MIF.I004	Formworks Installation		07-Mar-16	1 21m2	2 men @ 22m2/d/man	193	-					_
3MIF.I005	Concrete pouring	07-Mar-16 0	08-Mar-16	1 7m3		193	d.					
Pile Cap 100							4					
3MIF.I031	Excavate to Reduce levels +0.7mPD	03-Mar-16 0	04-Mar-16	1 15m3	1 machine @ 190m3/day	193						☐ Ex
#100A - Stockp	oiling in Arts Pavilion Site						4					
3MIF.1150	Stockpile period	01-Dec-15 (01-Apr-16	94		218						
3MIF.1150	<u></u> Stоожрів регіоа	U1-Dec-15 (U1-Apr-16	94		218		:				



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M+3 Months Rolling Programme

Date Revision Checked Approved

22-Oct-15 MOBP/3MRP Prog Rev B Edgar Payos Leo Harnett

02-Dec-15 3MRP Rev B (1st Draft) Edgar Payos Leo Harnett

Quarterly Environmental Monitoring and Audit (EM&A) Report (November 2015-January 2016)



Appendix C. Environmental Mitigation Measures – Implementation Status

Table C-1: Environmental Mitigation Measures Implementation Status

EM&A Ref.	Recommendation Measures		Implementation Stag	•
Air Quali	ty Impact (Construction)	Nov 2015	Dec 2015	Jan 2016
2.1 &	General Dust Control Measures			
10.3.1	Frequent water spraying for active construction areas (12 times a day or once every one hour), including Heavy construction activities such as construction of buildings or roads, drilling, ground excavation, cut and fill operations (i.e., earth moving)	✓	✓	✓
2.1 &	Best Practice For Dust Control			
10.3.1	The relevant best practices for dust control as stipulated in the Air Pollution Control (construction Dust) Regulation should be adopted to further reduce the construction dust impacts from the Project. These best practices include:			
	Good Site Management			
	■ Good site management is important to help reducing potential air quality impact down to an acceptable level. As a general guide, the Contractor should maintain high standard of housekeeping to prevent emission of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or by-products should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning.	Rem	Rem	Obs
	Disturbed Parts of the Roads			
	 Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or 	✓	✓	✓
	 Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet. 	✓	✓	Rem
	Exposed Earth			
	 Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies. 	N/A	N/A	N/A

EM&A Ref.	Recommendation Measures		Implementation Stage	
	Loading, Unloading or Transfer of Dusty Materials			
	 All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet. 	✓	✓	✓
	Debris Handling			
	 Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides. 	✓	✓	✓
	Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped.	✓	✓	✓
	Transport of Dusty Materials			
	 Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards. 	✓	✓	✓
	Wheel washing			
	 Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. 	✓	✓	✓
	Use of vehicles	✓	✓	✓
	The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site.			
	Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.	✓	✓	✓
	Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle.	✓	✓	✓
	Site hoarding			
	Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit.	✓	✓	✓
2.1 &	Best Practicable Means for Cement Works (Concrete Batching Plant)			
10.3.1	The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2(93) should be followed and implemented to further reduce the construction dust impacts of the Project. These best practices include:			

EM&A Ref.	Recommendation Measures		Implementation Stage	
	Exhaust from Dust Arrestment Plant			
	Wherever possible the final discharge point from particulate matter arrestment plant, where is not necessary to achieve dispersion from residual pollutants, should be at low level to minimise the effect on the local community in the case of abnormal emissions and to facilitate maintenance and inspection	N/A	~	√
	Emission Limits			
	 All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke 	N/A	√	√
	Engineering Design/Technical Requirements	N/A	✓	✓
	 As a general guidance, the loading, unloading, handling and storage of fuel, raw materials, products, wastes or by-products should be carried out in a manner so as to prevent the release of visible dust and/or other noxious or offensive emissions 	IVA		
Noise Imp	eact (Construction)			
3.1 & 10.4.1	Good Site Practice Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction:			
	 only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works; 	✓	✓	✓
	 machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum; 	✓	✓	✓
	plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs;	✓	✓	✓
	 mobile plant should be sited as far away from NSRs as possible; and 	✓	✓	✓
	material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities.	✓	✓	✓
3.1 &	Adoption of Quieter PME			
10.4.1	The recommended quieter PME adopted in the assessment were taken from the EPD's QPME Inventory and "Sound Power Levels of Other Commonly Used PME" are presented in Table 4.26 in the EIA report. It should be noted that the silenced PME selected for assessment can be found in Hong Kong.	N/A	N/A	N/A
3.1 &	Use of Movable Noise Barriers Movable noise barriers can be very effective in screening noise from particular items of plant when			

EM&A Ref.	Recommendation Measures		Implementation Stage	
10.4.1	constructing the Project. Noise barriers located along the active works area close to the noise generating component of a PME could produce at least 10 dB(A) screening for stationary plant and 5 dB(A) for mobile plant provided the direct line of sight between the PME and the NSRs is blocked.	N/A	Obs	✓
3.1 & 10.4.1	Use of Noise Enclosure/ Acoustic Shed The use of noise enclosure or acoustic shed is to cover stationary PME such as air compressor and concrete pump. With the adoption of the noise enclosure, the PME could be completely screened, and noise reduction of 15 dB(A) can be achieved according to the EIAO Guidance Note No.9/2010.	N/A	N/A	N/A
3.1 & 10.4.1	Use of Noise Insulating Fabric Noise insulating fabric can also be adopted for certain PME (e.g. drill rig, pilling machine etc). The fabric should be lapped such that there are no openings or gaps on the joints. According to the approved Tsim Sha Tsui Station Northern Subway EIA report (AEIAR-127/2008), a noise reduction of 10 dB(A) can be achieved for the PME lapped with the noise insulating fabric.	N/A	✓	✓
3.1 & 10.4.1	Scheduling of Construction Works outside School Examination Periods During construction phase, the contractor should liaise with the educational institutions (including NSRs LCS and CRGPS) to obtain the examination schedule and avoid the noisy construction activities during school examination periods.	N/A	N/A	N/A
Water Qu	ality Impact (Construction)			
4.1 & 10.5.1	Construction site runoff and drainage The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended to protect water quality and sensitive uses of the coastal area, and when properly implemented should be sufficient to adequately control site discharges so as to avoid water quality impacts:			
	At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels, earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system should be undertaken by the WKCDA's Contractor prior to the commencement of construction;	Rem	Rem	Obs
	Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM standards under the WPCO. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the WKCDA's Contractor prior to the commencement of construction.	✓	Obs	Obs
	 All drainage facilities and erosion and sediment control structures should be regularly inspected and 	✓	√	✓

EM&A Ref.	Recommendation Measures		Implementation Stage	e
	Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.			
	 Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities. 	✓	✓	✓
	• All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exit where practicable. Wash-water should have sand and silt settled out and removed regularly to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	✓	✓	✓
	 Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system. 	✓	√	Obs
	 Manholes (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and stormwater runoff being directed into foul sewers. 	✓	✓	✓
	Precautions should be taken at any time of the year when rainstorms are likely. Actions should be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC Note PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes.	✓	✓	✓
	 Bentonite slurries used in piling or slurry walling should be reconditioned and reused wherever practicable. Temporary enclosed storage locations should be provided on-site for any unused bentonite that needs to be transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries. 	N/A	N/A	N/A
	Barging facilities and activities			
	Recommendations for good site practices during operation of the proposed barging point include:			
	 All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; 	N/A	N/A	N/A
	 Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding 			

EM&A Ref.	Recommendation Measures		Implementation Stag	e
	water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation;	N/A	N/A	N/A
	 All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and 	N/A	N/A	N/A
	 Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site. 	N/A	N/A	N/A
4.1 & 10.5.1	Sewage effluent from construction workforce			
	Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	✓	✓	✓
4.1 & 10.5.1	General construction activities			
	 Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used. 	✓	✓	Obs
	Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event.	✓	✓	Obs
Waste Ma	anagement Implications (Construction)			
6.1 & 10.7.1	Good Site Practices			
	Recommendations for good site practices during the construction activities include:			
	 Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site 	✓	✓	✓
	 Training of site personnel in proper waste management and chemical handling procedures 	✓	√	✓
	 Provision of sufficient waste disposal points and regular collection of waste 	✓	✓	✓
	 Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers 	<i>√</i>	✓	✓
	 Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust 	✓	✓	✓

EM&A Ref.	Recommendation Measures		Implementation Stage	
	 introduction to public roads Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting the inert or non-inert C&D materials is not anticipated 	✓	✓	✓
6.1 &	Waste Reduction Measures			
10.7.1	Recommendations to achieve waste reduction include:			
	 Sort inert C&D material to recover any recyclable portions such as metals 	✓	✓	✓
	 Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal 	✓	✓	✓
	 Encourage collection of recyclable waste such as waste paper and aluminium cans by providing separate labelled bins to enable such waste to be segregated from other general refuse generated by the work force Proper site practices to minimise the potential for damage or contamination of inert C&D materials 	✓	✓	✓
	 Plan the use of construction materials carefully to minimise amount of waste generated and avoid 	./	./	./
	unnecessary generation of waste	· •	· ✓	· ✓
6.1 &	Inert and Non-inert C&D Materials			
10.7.1	In order to minimise impacts resulting from collection and transportation of inert C&D material for off-site disposal, the excavated materials should be reused on-site as fill material as far as practicable. In addition, inert C&D material generated from excavation works could be reused as fill materials in local projects that require public fill for reclamation.	N/A	N/A	✓
	 The surplus inert C&D material will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong. 	✓	✓	✓
	Liaison with the CEDD Public Fill Committee (PFC) on the allocation of space for disposal of the inert C&D materials at PFRF is underway. No construction work is allowed to proceed until all issues on management of inert C&D materials have been resolved and all relevant arrangements have been endorsed by the relevant authorities including PFC and EPD.	√	√	√
	The C&D materials generated from general site clearance should be sorted on site to segregate any inert materials for reuse or disposal of at PFRFs whereas the non-inert materials will be disposed of at the designated landfill site.	√	~	~
	 In order to monitor the disposal of inert and non-inert C&D materials at respectively PFRFs and the designated landfill site, and to control fly-tipping, it is recommended that the Contractor should follow the 	✓	✓	✓

EM&A Ref.	Recommendation Measures		Implementation Stage	
	Technical Circular (Works) No.6/2010 for Trip Ticket System for Disposal of Construction & Demolition Materials issued by Development Bureau. In addition, it is also recommended that the Contractor should prepare and implement a Waste Management Plan detailing their various waste arising and waste management practices in accordance with the relevant requirements of the Technical Circular (Works) No. 19/2005 Environmental Management on Construction Site.			
6.1 &	Chemical Waste			
10.7.1	■ If chemical wastes are produced at the construction site, the Contractor will be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the "Code of Practice on the Packaging Labelling and Storage of Chemical Wastes". Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor should use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Rem	Rem/Obs	Obs
	 Potential environmental impacts arising from the handling activities (including storage, collection, transportation and disposal of chemical waste) are expected to be minimal with the implementation of appropriate mitigation measures as recommended. 	Rem	Rem/ Obs	Obs
6.1 &	General Refuse			
10.7.1	General refuse should be stored in enclosed bins or compaction units separated from inert C&D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from inert C&D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	√	✓	✓
Land Co	ntamination (Construction)			
7.1 & 10.8.1	The potential for land contamination issues at the TST Fire Station due to its future relocation will be confirmed by site investigation after land acquisition. Where necessary, mitigation measures for minimising potential exposure to contaminated materials (if any) or remediation measures will be identified. If contaminated land is identified (e.g., during decommissioning of fuel oil storage tanks) after the commencement of works, mitigation measures are proposed in order to minimise the potentially adverse effects on the health and safety of construction workers and impacts arising from the disposal of potentially contaminated materials.			
	The following measures are proposed for excavation and transportation of contaminated material:			
	 To minimize the chance for construction workers to come into contact with any contaminated materials, 	N/A	N/A	N/A

EM&A Ref.	Recommendation Measures		Implementation Stage	e
	bulk earth-moving excavation equipment should be employed;			
	 Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when interacting directly with contaminated material), provision of washing facilities and prohibition of smoking and eating on site; 	N/A	N/A	N/A
	 Stockpiling of contaminated excavated materials on site should be avoided as far as possible; 	N/A	N/A	N/A
	 The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; 	N/A	N/A	N/A
	 Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater; 	N/A	N/A	N/A
	 Truck bodies and tailgates should be sealed to stop any discharge; 	N/A	N/A	N/A
	 Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping; 	N/A	N/A	N/A
	 Speed control for trucks carrying contaminated materials should be exercised; 	N/A	N/A	N/A
	 Observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap 354) and obtain all necessary permits where required; and 	N/A	N/A	N/A
	 Maintain records of waste generation and disposal quantities and disposal arrangements. 	N/A	N/A	N/A
Ecologica	I Impact (Construction)			
	No mitigation measure is required.			
Landscap	e and Visual Impact (Construction)			
Table 9.1 & 10.8 (CM1)	Trees should be retained in situ on site as far as possible. Should tree removal be unavoidable due to construction impacts, trees will be transplanted or felled with reference to the stated criteria in the Tree Removal Applications to be submitted to relevant government departments for approval in accordance to ETWB TCW No. 29/2004 and 3/2006.	N/A	N/A	N/A
Table 9.1 & 10.8 (CM2)	Compensatory tree planting shall be incorporated to the proposed project and maximize the new tree, shrubs and other vegetation planting to compensate tree felled and vegetation removed. Also, implementation of compensatory planting should be of a ratio not less than 1:1 in terms of quality and quantity within the site.	N/A	N/A	N/A
Table 9.1 & 10.8	Buffer trees for screening purposes to soften the hard architectural and engineering structures and facilities.	N/A	N/A	N/A

EM&A Ref. (CM3)	Recommendation Measures		Implementation Stage	9
Table 9.1 & 10.8 (CM4)	Softscape treatments such as vertical green wall panel /planting of climbing and/or weeping plants, etc, to maximize the green coverage and soften the hard architectural and engineering structures and facilities.	N/A	N/A	N/A
Table 9.1 & 10.8 (CM5)	Roof greening by means of intensive and extensive green roof to maximize the green coverage and improve aesthetic appeal and visual quality of the building/structure.	N/A	N/A	N/A
Table 9.1 & 10.8 (CM6)	Sensitive streetscape design should be incorporated along all new roads and streets.	N/A	N/A	N/A
Table 9.1 & 10.8 (CM7)	Structure, ornamental planting shall be provided along amenity strips to enhance the landscape quality.	N/A	N/A	N/A
Table 9.1 & 10.8 (CM8)	Landscape design shall be incorporated to architectural and engineering structures in order to provide aesthetically pleasing designs.	N/A	N/A	N/A
Table 9.1 (CM9)	Minimize the structure of marine facilities to built on the seabed and foreshore in order to minimize the affected extent to the waterbody	N/A	N/A	N/A
Table 9.2 & 10.9 (MCP1)	Use of decorative screen hoarding/boards	√	✓	✓
Table 9.2 & 10.9 (MCP2)	Early introduction of landscape treatments	N/A	N/A	N/A
Table 9.2 & 10.9 (MCP3)	Adoption of light colour for the temporary ventilation shafts for the basement during the transition period.	N/A	N/A	N/A
Table 9.2 & 10.9 (MCP4)	Control of night time lighting	√	✓	✓
Table 9.2	Use of greenery such as grass cover for the temporary open areas will help achieve the visual balance and	N/A	N/A	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage
& 10.9	soften the hard edges of the structures.	
(MCP5)		

N/A - Not Applicable
✓ - Implemented
Obs - Observed
Rem - Reminder

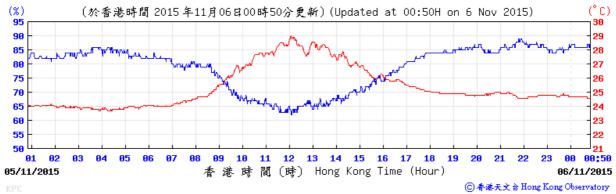
M+ Museum Main Works at West Kowloon Cultural District

Quarterly Environmental Monitoring and Audit (EM&A) Report (November 2015-January 2016)

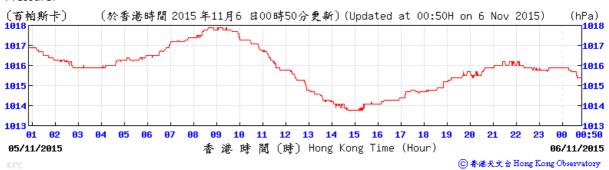


Appendix D. Meteorological Data Extracted from Hong Kong Observatory

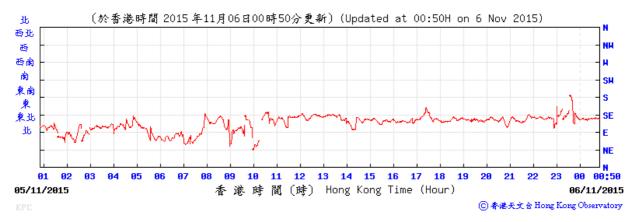
Table D-1: Extract of Meteorological Observations for King's Park Automatic Weather Station in the reporting quarter

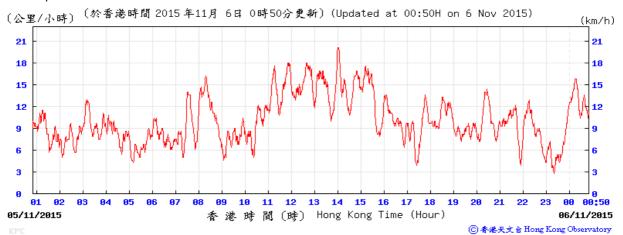


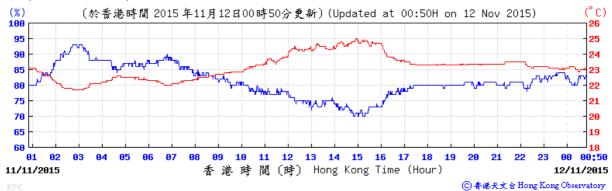
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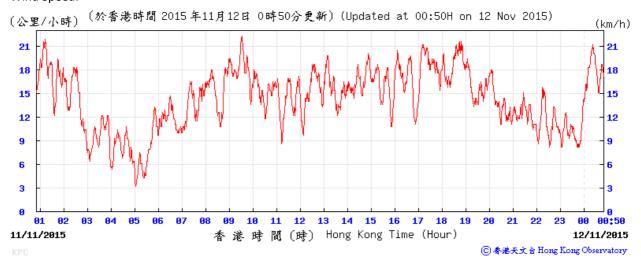


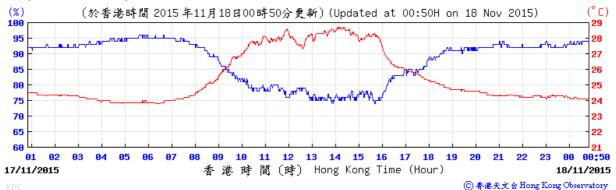
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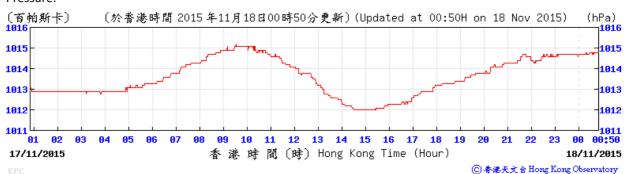
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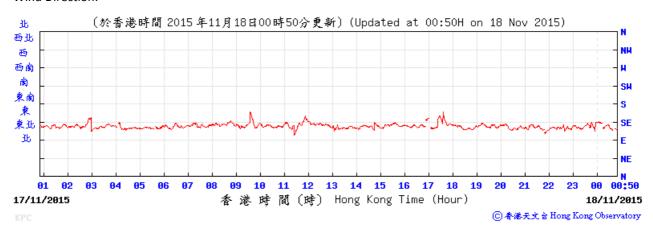




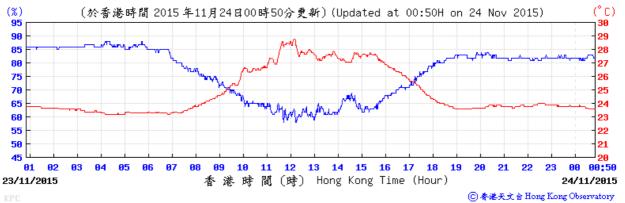
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Wind Direction:



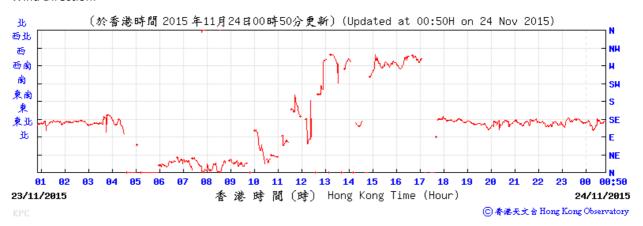


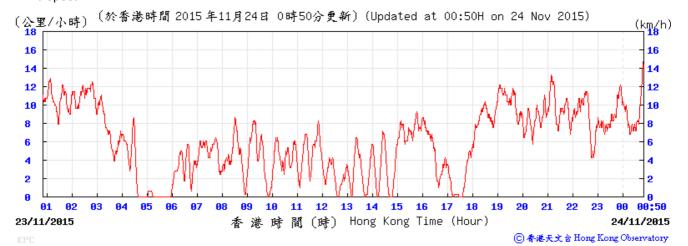


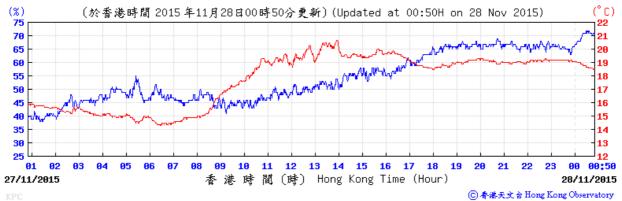
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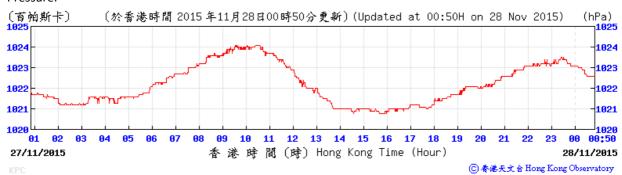
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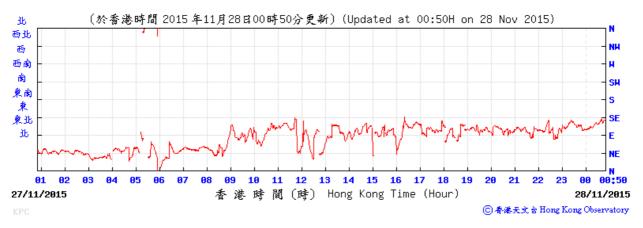


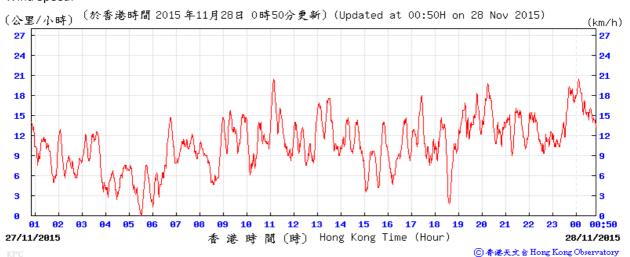


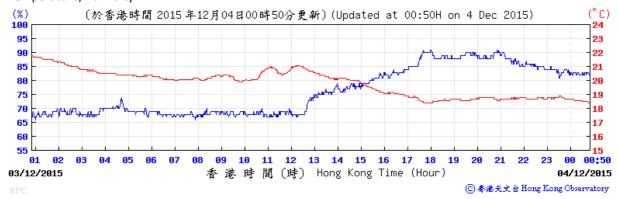
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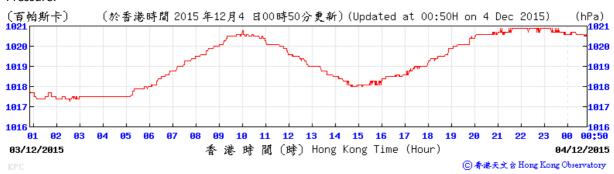
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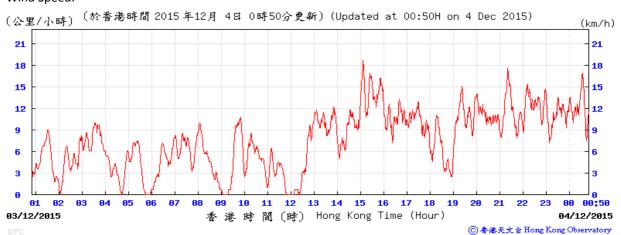


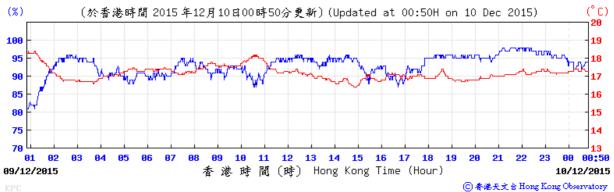
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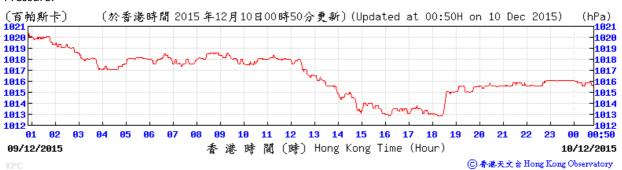
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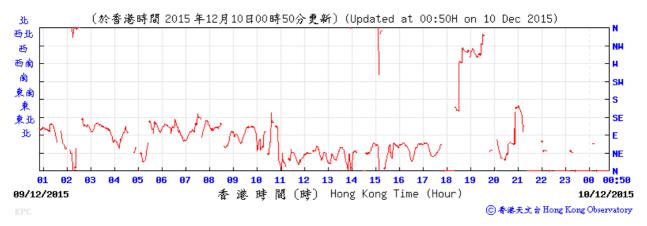




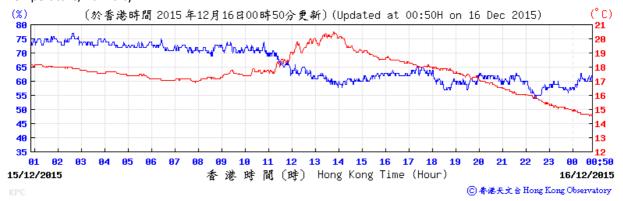
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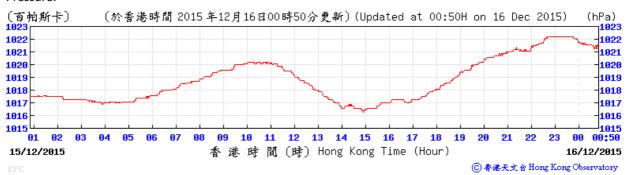
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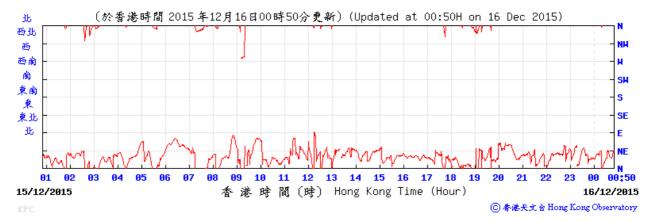


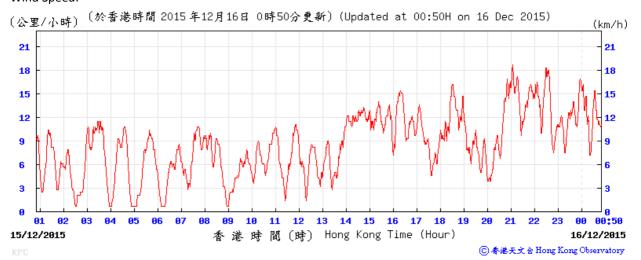


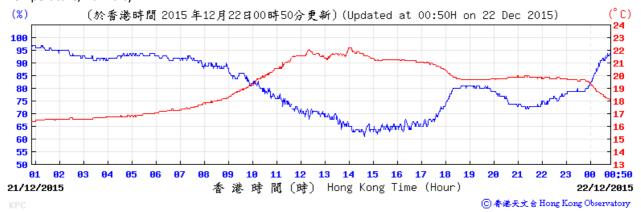
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Wind Direction:



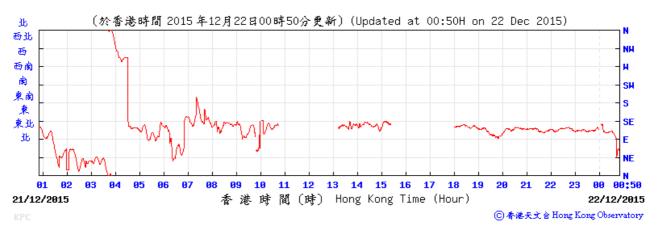


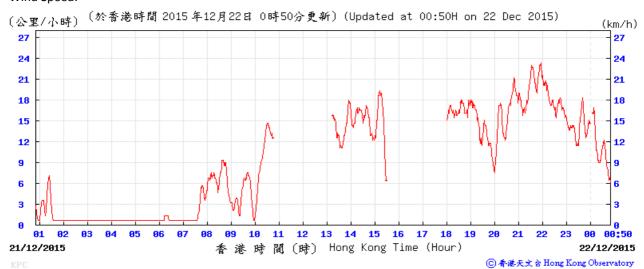


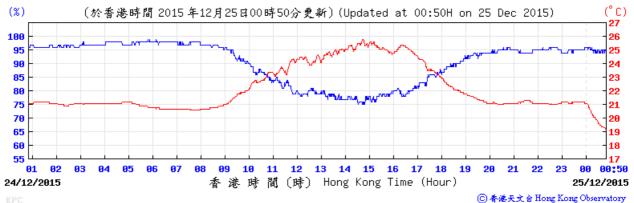
Pressure:



Wind Direction:



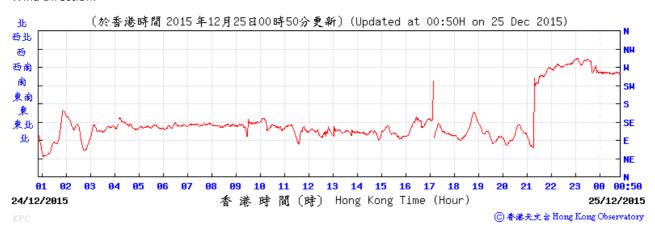


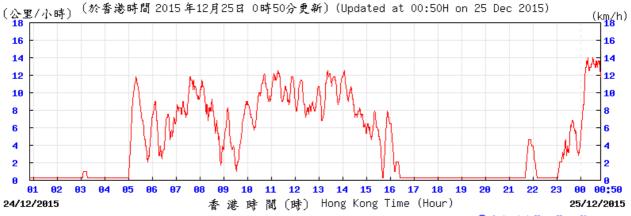


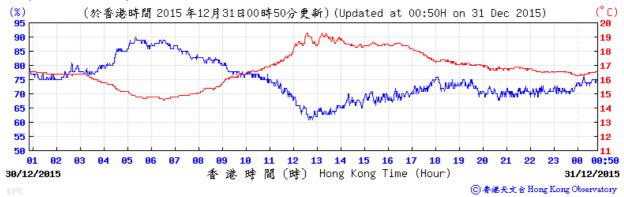
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Wind Direction:



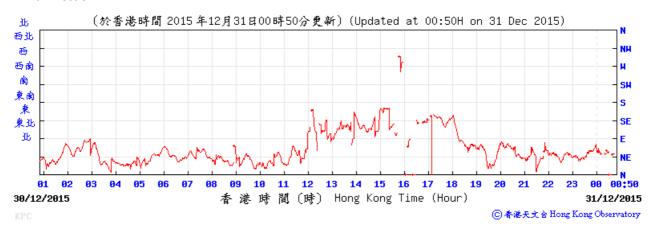


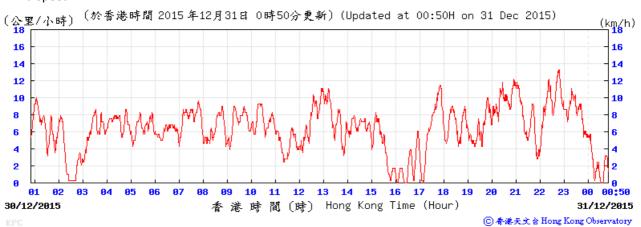


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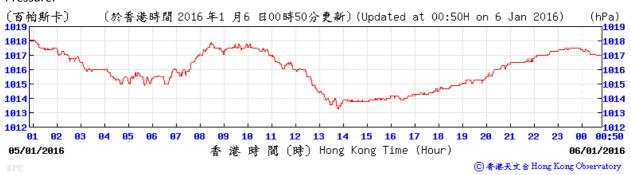
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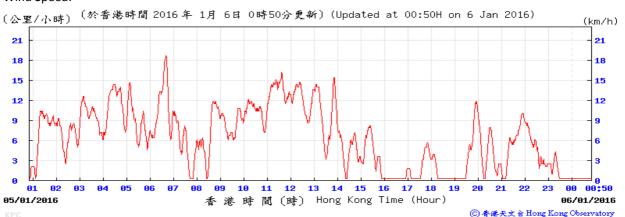


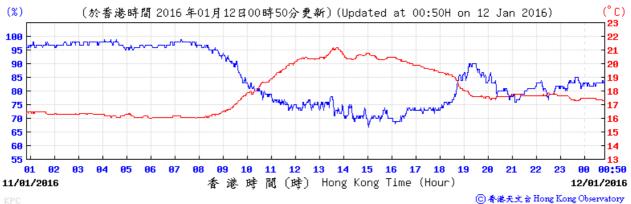
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Wind Direction:



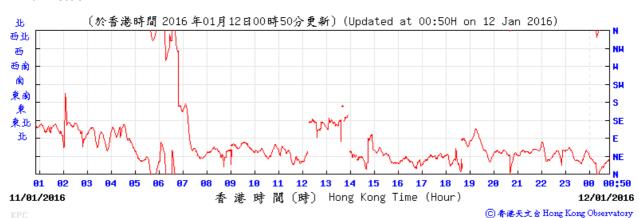


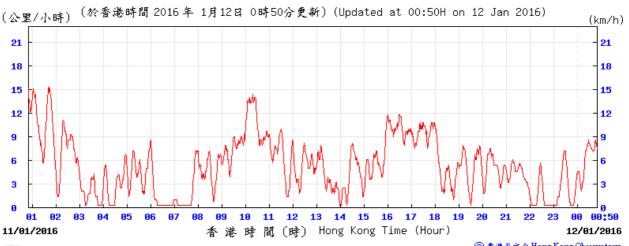


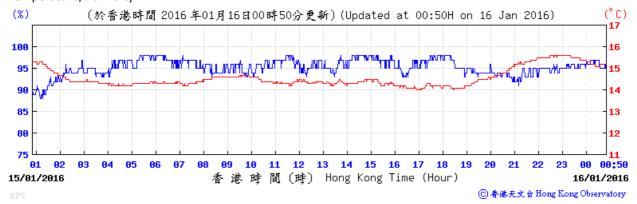
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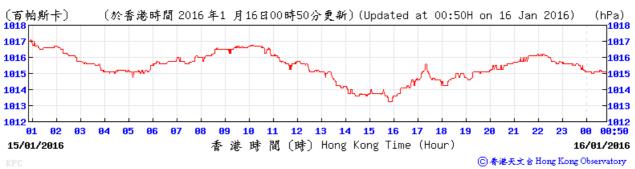
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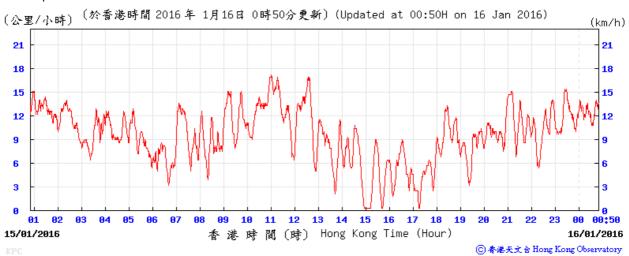


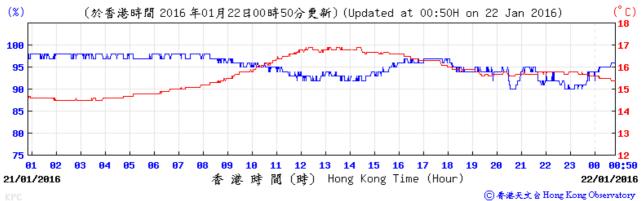
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Wind Direction:



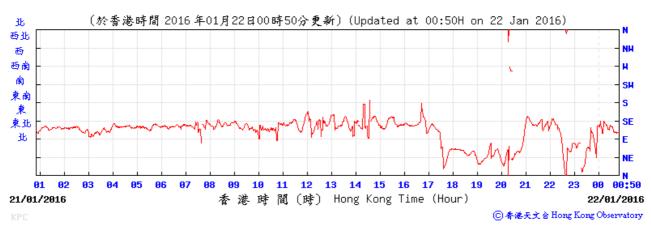


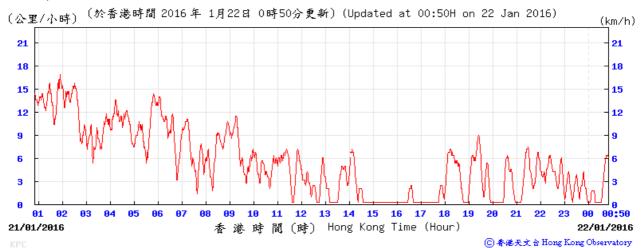


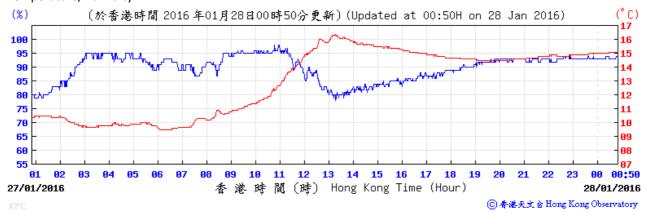
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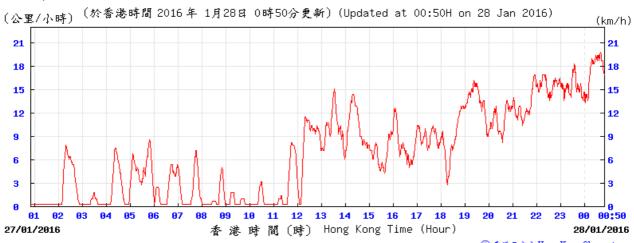


Pressure:



Wind Direction:





M+ Museum Main Works at West Kowloon Cultural District

Quarterly Environmental Monitoring and Audit (EM&A) Report (November 2015-January 2016)

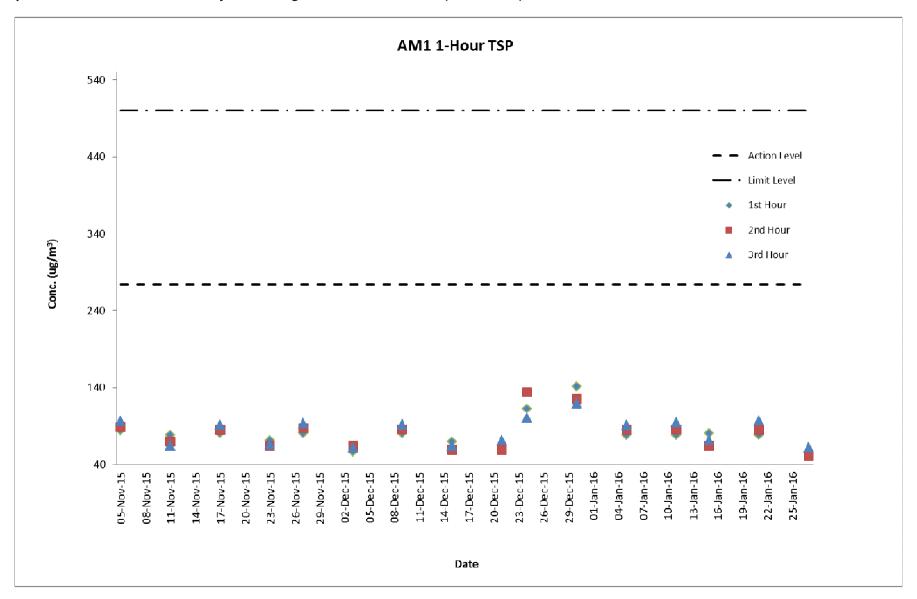


Appendix E. Graphical Plots of the Monitoring Results

Air Quality Monitoring Result at Station AM1 (1-hour TSP)

	Weather		C	onc. (μg/m	Action Level	Limit Level	
Date	Condition	Time	1 st Hour	2 nd Hour	3 rd Hour	(µg/m3)	(μg/m³)
05-Nov-15	Sunny	10:51 - 15:00	84	89	96	273.7	500
11-Nov-15	Fine	10:42 - 15:00	78	70	64	273.7	500
17-Nov-15	Sunny	10:40 - 15:00	80	85	92	273.7	500
23-Nov-15	Sunny	10:38 - 15:00	71	64	66	273.7	500
27-Nov-15	Sunny	8:00 - 11:00	80	87	93	273.7	500
03-Dec-15	Cloudy	10:40 - 15:00	57	64	61	273.7	500
09-Dec-15	Cloudy	10:40 - 15:00	80	86	92	273.7	500
15-Dec-15	Cloudy	10:20 - 15:00	70	59	64	273.7	500
21-Dec-15	Cloudy	10:30 - 16:00	64	59	71	273.7	500
24-Dec-15	Cloudy	8:02 - 11:02	112	134	101	273.7	500
30-Dec-15	Cloudy	10:30 - 16:00	141	125	119	273.7	500
05-Jan-16	Cloudy	10:30 - 15:00	78	85	91	273.7	500
11-Jan-16	Fine	10:20 - 15:00	78	86	95	273.7	500
15-Jan-16	Rainy	8:00 - 12:00	80	64	71	273.7	500
21-Jan-16	Rainy	10:30 - 16:00	78	85	97	273.7	500
27-Jan-16	Rainy	10:43 - 16:00	55	51	62	273.7	500

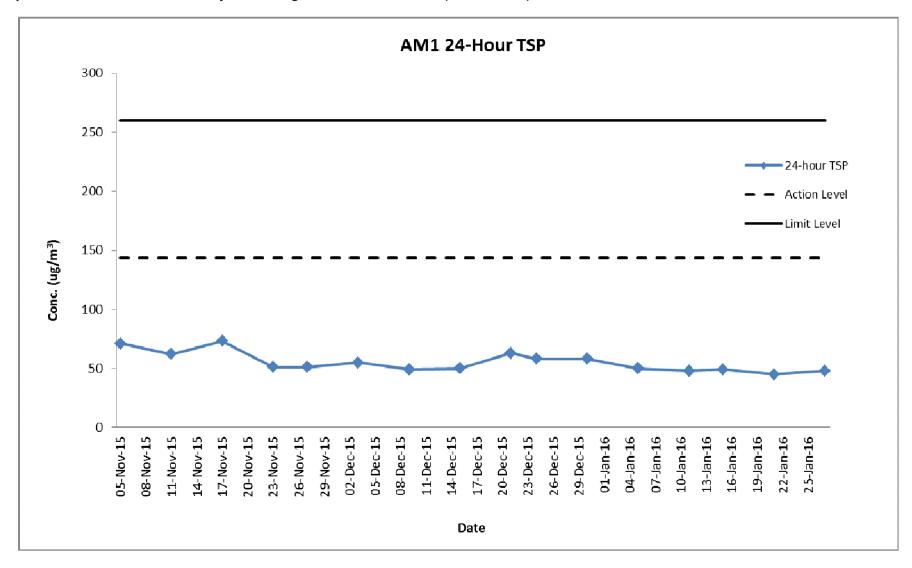
Graphical Presentation of Air Quality Monitoring Result at Station AM1 (1-hour TSP)



Air Quality Monitoring Result at Station AM1 (24-hour TSP)

Sta	rt	Finis	sh	Filter Weight (g)		Rea	ding	Sampling	Flow Rate (m ³ /min)		min)	Conc.	Weather	Action	Limit
Date	Time	Date	Time	Initial	Final	Initial	Final	Time (hrs)	Initial	Final	Average	(μg/m³)	Condition	Level	Level
05-Nov-15	10:50	06-Nov-15	10:50	2.884	3.0072	18648.38	18672.38	24	1.2	1.2	1.2	71	Sunny	143.6	260
11-Nov-15	10:40	12-Nov-15	10:40	2.8553	2.962	18672.38	18696.38	24	1.2	1.2	1.2	62	Fine	143.6	260
17-Nov-15	10:42	18-Nov-15	10:42	2.8647	2.9911	18696.38	18720.38	24	1.2	1.2	1.2	73	Sunny	143.6	260
23-Nov-15	10:40	24-Nov-15	10:40	2.7915	2.8804	18720.38	18744.38	24	1.2	1.2	1.2	51	Sunny	143.6	260
27-Nov-15	08:02	28-Nov-15	08:02	2.7838	2.8711	18744.38	18768.38	24	1.2	1.2	1.2	51	Sunny	143.6	260
03-Dec-15	10:42	04-Dec-15	10:42	2.7688	2.8641	18768.38	18792.38	24	1.2	1.2	1.2	55	Cloudy	143.6	260
09-Dec-15	10:42	10-Dec-15	10:42	2.7874	2.872	18792.38	18816.38	24	1.2	1.2	1.2	49	Cloudy	143.6	260
15-Dec-15	10:22	16-Dec-15	10:22	2.7898	2.8779	18816.38	18840.38	24	1.23	1.23	1.23	50	Cloudy	143.6	260
21-Dec-15	10:32	22-Dec-15	10:32	2.7837	2.8944	18840.38	18864.38	24	1.23	1.23	1.23	63	Cloudy	143.6	260
24-Dec-15	08:00	25-Dec-15	08:00	2.8088	2.9119	18864.38	18888.38	24	1.23	1.23	1.23	58	Cloudy	143.6	260
30-Dec-15	10:32	31-Dec-15	10:32	2.8197	2.9221	18888.38	18912.38	24	1.23	1.23	1.23	58	Cloudy	143.6	260
05-Jan-16	10:33	06-Jan-16	10:33	2.8086	2.8966	18912.38	18936.38	24	1.23	1.23	1.23	50	Cloudy	143.6	260
11-Jan-16	10:22	12-Jan-16	10:22	2.8055	2.89	18936.38	18960.38	24	1.23	1.23	1.23	48	Fine	143.6	260
15-Jan-16	08:02	16-Jan-16	08:02	2.8145	2.9007	18960.38	18984.38	24	1.23	1.23	1.23	49	Rainy	143.6	260
21-Jan-16	10:28	22-Jan-16	10:28	2.7819	2.861	18984.38	19008.38	24	1.23	1.23	1.23	45	Cloudy	143.6	260
27-Jan-16	10:45	28-Jan-16	10:45	2.7785	2.864	19008.38	19032.38	24	1.23	1.23	1.23	48	Rainy	143.6	260

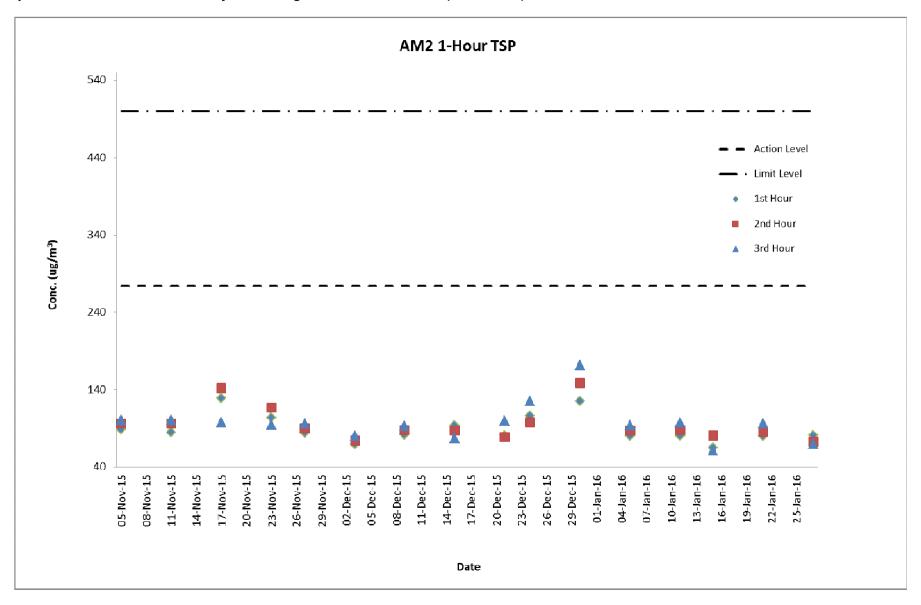
Graphical Presentation of Air Quality Monitoring Result at Station AM1 (24-hour TSP)



Air Quality Monitoring Result at Station AM2 (1-hour TSP)

	Weather		С	onc. (μg/m	Action Level	Limit Level	
Date	Condition	Time	1 st Hour	2 nd Hour	3 rd Hour	(µg/m3)	(µg/m³)
05-Nov-15	Sunny	11:01 - 15:10	85	90	98	274.2	500
11-Nov-15	Fine	10:52 - 15:10	79	87	92	274.2	500
17-Nov-15	Sunny	10:50 - 15:10	114	131	140	274.2	500
23-Nov-15	Sunny	10:50 - 15:10	84	76	90	274.2	500
27-Nov-15	Sunny	8:12 - 11:12	82	89	95	274.2	500
03-Dec-15	Cloudy	10:52 - 15:10	70	74	80	274.2	500
09-Dec-15	Cloudy	10:52 - 15:10	82	88	93	274.2	500
15-Dec-15	Cloudy	10:30 - 15:10	94	87	77	274.2	500
21-Dec-15	Cloudy	10:41 - 16:10	81	79	100	274.2	500
24-Dec-15	Cloudy	8:12 - 11:12	106	98	125	274.2	500
30-Dec-15	Cloudy	10:42 - 16:10	125	149	172	274.2	500
05-Jan-16	Cloudy	10:45 - 15:10	80	87	94	274.2	500
11-Jan-16	Fine	10:32 - 15:10	80	88	98	274.2	500
15-Jan-16	Rainy	8:12 - 15:10	65	81	61	274.2	500
21-Jan-16	Cloudy	10:40 - 16:10	80	86	96	274.2	500
27-Jan-16	Rainy	10:55 - 16:10	81	73	70	274.2	500

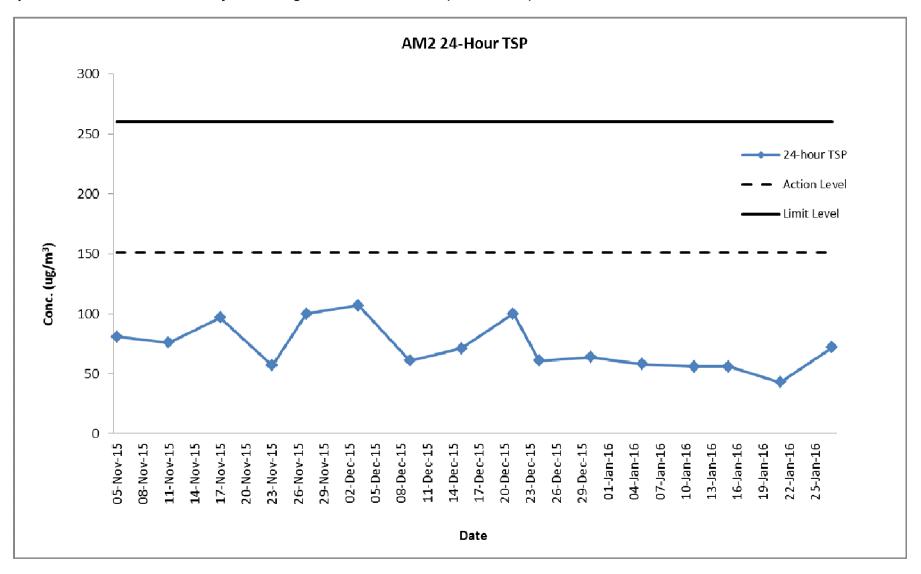
Graphical Presentation of Air Quality Monitoring Result at Station AM2 (1-hour TSP)



Air Quality Monitoring Result at Station AM2 (24-hour TSP)

Sta	rt	Finis	sh	Filter W	eight (g)	Rea	ding	Sampling	Flow Rate (m ³ /min)		min)	Conc.	Weather	Action	Limit
Date	Time	Date	Time	Initial	Final	Initial	Final	Time (hrs)	Initial	Final	Average	(μg/m³)	Condition	Level	Level
05-Nov-15	11:05	06-Nov-15	11:05	2.8543	2.9984	14351.57	14375.57	24	1.24	1.24	1.24	81	Sunny	151.1	260
11-Nov-15	10:55	12-Nov-15	10:55	2.8176	2.9529	14375.57	14399.57	24	1.24	1.24	1.24	76	Fine	151.1	260
17-Nov-15	10:52	18-Nov-15	10:52	2.8186	2.9911	14399.57	14423.57	24	1.24	1.24	1.24	97	Sunny	151.1	260
23-Nov-15	10:54	24-Nov-15	10:54	2.78	2.881	14423.57	14447.57	24	2.24	1.24	1.74	57	Sunny	151.1	260
27-Nov-15	08:15	28-Nov-15	08:15	2.7697	2.9479	14447.57	14471.57	24	1.24	1.24	1.24	100	Sunny	151.1	260
03-Dec-15	10:56	04-Dec-15	10:56	2.7584	2.9501	14471.57	14495.57	24	1.24	1.24	1.24	107	Cloudy	151.1	260
09-Dec-15	10:55	10-Dec-15	10:55	2.7925	2.9013	14495.57	14519.57	24	1.24	1.24	1.24	61	Cloudy	151.1	260
15-Dec-15	10:35	16-Dec-15	10:35	2.797	2.9242	14519.57	14543.57	24	1.24	1.24	1.24	71	Cloudy	151.1	260
21-Dec-15	10:44	22-Dec-15	10:44	2.7918	2.9696	14543.57	14567.57	24	1.24	1.24	1.24	100	Cloudy	151.1	260
24-Dec-15	08:15	25-Dec-15	08:15	2.7905	2.8991	14567.57	14591.57	24	1.24	1.24	1.24	61	Cloudy	151.1	260
30-Dec-15	10:46	31-Dec-15	10:46	2.8133	2.9277	14591.57	14615.57	24	1.24	1.24	1.24	64	Cloudy	151.1	260
05-Jan-16	10:43	06-Jan-16	10:43	2.8033	2.906	14615.59	14639.59	24	1.24	1.24	1.24	58	Cloudy	151.1	260
11-Jan-16	10:36	12-Jan-16	10:36	2.7999	2.9001	14639.59	14663.59	24	1.24	1.24	1.24	56	Fine	151.1	260
15-Jan-16	08:15	16-Jan-16	08:15	2.8097	2.91	14663.59	14687.59	24	1.24	1.24	1.24	56	Rainy	151.1	260
21-Jan-16	10:38	22-Jan-16	10:38	2.7888	2.8664	14687.59	14711.59	24	1.24	1.24	1.24	43	Cloudy	151.1	260
27-Jan-16	10:58	28-Jan-16	10:58	2.7599	2.8893	14711.59	14735.59	24	1.24	1.24	1.24	72	Rainy	151.1	260

Graphical Presentation of Air Quality Monitoring Result at Station AM2 (24-hour TSP)



M+ Museum Main Works at West Kowloon Cultural District

Quarterly Environmental Monitoring and Audit (EM&A) Report (November 2015-January 2016)



Appendix F. Waste Flow table

Table F-1 Waste Flow Table

		Actual Qua		C&D Materials (cs) e.g. broken co		ated waste)	Actual Quantities of Non-inert C&D Waste (tonnes)					
Month	Excavated Waste (tonnes)	(a) Total inert C&D material generated (a) = (b) + (c) + (d) + (e)	(b) Reused in contract	(c) Reused in other projects	(d) Sent to recycling company	(e) Disposed to public fill	(f) Recycled scrap metal	(g) Reused / recycled timber	(h) Chemical waste	(i) Other waste disposed to landfill	(j) Total non- inert C&D material generated (j) = (f) + (g) + (h) + (i)	
Nov 2015	46,607.4	0.0	0.0	0.0	0.0	0.0	76.2	0.0	0.0	67.6	143.8	
Dec 2015	29,631.5	21.4	0.0	21.4	0.0	0.0	26.3	0.0	1.0	66.0	93.2	
Jan 2016	21,077.4	0.0	0.0	0.0	0.0	0.0	18.8	0.0	0.0	23.2	42.0	
Feb 2016												
Mar 2016												
Apr 2016												
May 2016												
Jun 2016												
Jul 2016												
Aug 2016												
Sep 2016			<u>-</u>		<u>-</u>							
Oct 2016												
Nov 2016			•		•			•				
Dec 2016												
Total	97,316.3	21.4	0.0	21.4	0.0	0.0	121.3	0.0	1.0	156.8	279.0	

Note:

Quantities of diposal/ resue/ storage of excavated waste since the commencement of the Project:

Site of Disposal/ Reuse/ Storage	Quantities (tonnes)
Fill Bank at Tuen Mun Area 38	11,455.0
Fill Bank at Tseung Kwan O Area 137	27,093.3
Green Valley	34,144.0
Advance Works for Shek Wu Hui Sewage Treatment Works	11,952.0
Design and Construction of Kai Tak Cable Tunnel, CLP	720.0
MTR Contract 1002 Whampoa Station and Overrun Tunnel	5,600.0
M+ Stockpile (M66, storage site near M+)	2,880.0
Hsin Chong Stockpile (Storage site near M+)	3,472.0
Total	97,316.3

^{1.} A total of 21.4 tons of Grouting material was reused in other projects

M+ Museum Main Works at West Kowloon Cultural District

Quarterly Environmental Monitoring and Audit (EM&A) Report (November 2015-January 2016)



Appendix G. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Cumulative statistics for complaints, notifications of summons and successful prosecutions for the Project account for period starting from the date of commencement of construction works (i.e. 31 October 2015) to the end of the reporting quarter and are summarized in the **Table G-1** below.

Table G-1: Statistics for complaints, notifications of summons and successful prosecutions

Reporting Period		Cumulative Statistics						
	Complaints	Notifications of summons	Successful prosecutions					
This reporting quarter	1	0	0					
From 31 October 2015 to end of the reporting quarter	1	0	0					