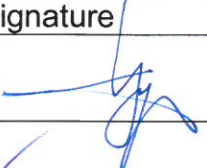



Environmental Protection Department

Contract No. HY/2012/06

**Widening of Fanling Highway
– Tai Hang to Wo Hop Shek
Interchange****Annual EM&A Report
for November 2014 to October 2015**

[1/2016]

	Name	Signature
Prepared & Checked:	Oscar Yip	
Reviewed & Approved:	Y W Fung	

Version: Rev. 0 Date: 8 January 2016

Disclaimer

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5 January 2016
By Fax (2805 5028) & Post

Dear Sir,

Attn: Mr. James Penny

Environmental Monitoring and Audit (EM&A) for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2 (between Tai Hang to Wo Hop Shek Interchange) Environmental Permit No. EP-324/2008/D Annual EM&A Report for November 2014 to October 2015 for the portion of Stage 2 works under Contract No. HY/2012/06

We refer to the revised Annual EM&A Report for November 2014 to October 2015 for the Project received on 5 January 2016 submitted by ET via email. We confirm we have no comment.

Yours faithfully
for MOTT MACDONALD HONG KONG LIMITED

A handwritten signature in blue ink, appearing to read "Steven Tang", with a long, sweeping underline.

Steven Tang
Independent Environmental Checker

c.c. HyD – Mr. Chung Lok Chin (Fax: 2714 5198)
AECOM – Mr. Y W Fung (Fax: 2891 0305)

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EXECUTIVE SUMMARY

The proposed widening of Tolo Highway and Fanling Highway between Island House Interchange and Fanling (the Project) is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). An Environmental Impact Assessment (EIA) Report (the approved EIA Report) together with an Environmental Monitoring and Audit (EM&A) Manual (the approved EM&A Manual) were completed and approved under the EIAO on 14 July 2000 (Register Number: EIA-043/2000).

The objective of the Project “Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling” is to widen Tolo Highway and Fanling Highway to dual 4-lane carriageway in order to alleviate the current traffic congestion problems and to cope with the increasing transport demands to and from the urban areas and also cross boundary traffic.

The Project is a designated project and governed by an Environmental Permit (EP-324/2008) issued by the EPD on 23 December 2008. Subsequently, the EPD issued Variation of Environmental Permits of EP-324/2008/A, EP-324/2008/B and EP-324/2008/C on 31 January 2012, 17 March 2014 and 27 March 2015 respectively. The current valid VEP was applied on 19 August 2015 and the VEP (EP-324/2008/D) was subsequently granted on 27 August 2015.

The construction works for this Project are delivered in 2 stages i.e. Stage 1 (between Island House Interchange and Tai Hang) and Stage 2 (between Tai Hang and Wo Hop Shek Interchange). Stage 2 would be implemented under two works contracts. Contract No. HY2012/06 “Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange” and the entrusted portion to CEDD under Contract No. CV/2012/09 “Liantang/Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works – Contract 3”. This report focuses on Contract No. HY2012/06 “Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange” in Stage 2 of the Project only.

Pursuant to the EP (EP-324/2008/D) Condition 2.7, the Capture Survey Trip Report for Ma Wat River Northern Meander (Version 2) for the Project was submitted on 24 December 2013 by the Environmental Team (ET) and verified by the Independent Environmental Checker (IEC) on 6 January 2014.

The construction phase of the Contract under the EP and the Environmental Monitoring and Audit (EM&A) programme of the contract commenced on 21 November 2013. The impact environmental monitoring and audit includes air quality and noise monitoring.

This report documents the findings of EM&A works conducted in the period between 1 November 2014 and 31 October 2015. As informed by the Contractor, construction activities in the reporting period were:

- Site clearance;
- Ground investigation;
- Tree felling and transplantation;
- Piling works;
- Pipe laying;
- Retaining wall construction;
- Excavation;
- Backfilling;
- Drainage;
- Temporary bridge construction;
- Box culvert construction;
- Noise barrier construction;
- Houses demolition;
- Soil nail;
- Footbridge demolition; and
- House construction.

Reporting Change

There was no reporting change required in the reporting period.

Breaches of Action and Limit Levels for Air Quality

No exceedance of Action and Limit Level was recorded for 1-hour and 24-hour TSP monitoring in the reporting period.

Breaches of Action and Limit Levels for Noise

No Action Level exceedance of construction noise was recorded in the reporting period since no noise complaints related to 0700 – 1900 hours on normal weekdays were received.

One (1) Limit Level exceedance was recorded on 15 January 2015 for noise monitoring at M3 in the reporting period. The exceedance was considered non-project-related.

Complaint, Notification of Summons and Successful Prosecution

One (1) water-related complaint was received on 31 December 2014 and followed up by the Environmental Team in the reporting period. The full complaint investigation report is annexed in Appendix M of the Monthly EM&A Report for December 2014.

One (1) odour-related complaint was received on 25 March 2015 and followed up by the Environmental Team in the reporting period. The full complaint investigation report is annexed in Appendix M of the Monthly EM&A Report for March 2015.

1 INTRODUCTION

1.1 Project Organization and Contacts of Key Management

1.1.1 The project organization structure is shown in Appendix A. The key personnel contact names and numbers are summarized in Table 1.1.

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
ER (Hyder-Arup-Black & Veatch Joint Venture)	Chief Resident Engineer	Edwin Chung	6115 0818	2638 0950
IEC (Mott MacDonald Hong Kong Limited)	Independent Environmental Checker	Steven Tang	2828 5920	2827 1823
Contractor (China State Construction Engineering (Hong Kong) Limited)	Environmental Officer	Michael Tsang	9277 4956	2672 2501
		C C Chow	9679 6315	2672 2501
ET (AECOM Asia Company Limited)	ET Leader	Y W Fung	3922 9393	3922 9797

1.2 Programme

1.2.1 The Construction Programme is shown in Appendix B.

1.3 Summary of Construction Works

1.3.1 Details of the construction works carried out by the Contractor in this reporting period are listed below:

- Site clearance;
- Ground investigation;
- Tree felling and transplanted;
- Piling works;
- Pipe laying;
- Retaining wall construction;
- Excavation;
- Backfilling;
- Drainage;
- Temporary bridge construction;
- Box culvert construction;
- Noise barrier construction;
- Houses demolition;
- Soil nail;

- Footbridge demolition; and
- House construction.

1.3.2 The general layout plan of the Project site showing the contract areas is shown in Figure 1.1.

1.3.3 The environmental mitigation measures implementation schedule are presented in Appendix C.

2 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

2.1 Monitoring Parameters

2.1.1 The updated EM&A Manual has designated 1 air quality monitoring station and 2 noise monitoring stations to monitor environmental impacts on air quality and noise due to Stage 2 of the Project.

2.1.2 The updated EM&A Manual also requires environmental site inspections for air quality, noise, water quality, chemical, waste management, ecology and landscape and visual impacts.

2.2 Monitoring Locations

2.2.1 For air quality monitoring, the monitoring station was set up at Fanling Government Secondary School, in accordance with updated EM&A Manual. The location is shown in Figure 1.2a.

2.2.2 For noise monitoring, the monitoring stations M2 and M3 were set up at West Tai Wo and Fanling Government Secondary School respectively in accordance with updated EM&A Manual. Figure 1.2a-b shows the locations of the monitoring stations.

2.3 Environmental Quality Performance Limits (Action/Limit Levels)

2.3.1 The environmental quality performance limits (i.e. Action/Limit Levels) of air quality monitoring were derived from the baseline air quality monitoring results at the monitoring station (AM2); while the environmental quality performance limits of noise monitoring were defined in the EM&A Manual.

2.3.2 The environmental quality performance limits are given in Appendix D.

2.4 Environmental Mitigation Measures

2.4.1 Relevant environmental mitigation measures were stipulated in the Particular Specification and EP for the Contractor to adopt. A list of environmental mitigation measures and their implementation statuses are given in Appendix C.

2.5 Environmental Impact Hypotheses Tested

2.5.1 The EIA Report concluded that with proper mitigation measures implemented, fugitive dust emission during the construction phase would be controlled and will not exceed the acceptable criteria.

2.5.2 For construction noise, exceedances were predicted only at 2 schools (SR41 Wong Shiu Chi Middle School and SR45 HK Teacher's Association Secondary School) but they are out of the scope of this EM&A Programme. Hence, the EIA did not anticipate any noise exceedances during the construction phase within the scope of this EM&A Programme.

2.5.3 The above criteria have been tested under this EM&A Programme during the reporting period.

3 AIR QUALITY MONITORING

- 3.1.1 In accordance with the updated EM&A Manual, baseline 1-hour and 24-hour TSP levels at one air quality monitoring station was established. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days, while impact 24-hour TSP monitoring was carried out for at least once every 6 days.
- 3.1.2 The weather was mostly sunny, with several fine, cloudy and rainy days in the reporting period. Weather information including the wind speed and wind direction is annexed in Appendix F. The information was obtained from the Hong Kong Observatory.
- 3.1.3 The monitoring results for 1-hour TSP and 24-hour TSP monitoring are summarized in Tables 3.1 and 3.2 respectively. Detailed impact air quality monitoring results are presented in Appendix E.

Table 3.1 Summary of 1-hour TSP Monitoring Results in the Reporting Period

Location	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM2 (Fanling Government Secondary School)	76.7	60.2 – 88.7	317.8	500

Table 3.2 Summary of 24-hour TSP Monitoring Results in the Reporting Period

Location	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM2 (Fanling Government Secondary School)	42.7	7.6 – 157.8	200.7	260

- 3.1.4 The major dust sources in the reporting period included construction activities from Stage 2 of the Project, as well as nearby traffic emissions.
- 3.1.5 All 1-hour and 24-hour TSP results were below the Action and Limit Level in the reporting period.
- 3.1.6 Detailed impact air quality monitoring results are presented in Appendix E.

4 NOISE MONITORING

- 4.1.1 In accordance with the EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of the Contract.
- 4.1.2 The monitoring results for construction noise are summarized in Table 4.1 and the monitoring data are provided in Appendix G.

Table 4.1 Summary of Construction Noise Monitoring Results in the Reporting Period

	Average (dB(A)) L_{eq} (30 mins)	Range (dB(A)) L_{eq} (30 mins)	Limit Level (dB(A)) L_{eq} (30 mins)
M2*	69.1	64.7 – 71.2	75
M3 [#]	63.9	54.7 – 67.9	65/70

*+3dB(A) Façade correction included

Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.

- 4.1.3 The major noise sources during the noise monitoring included nearby road traffic noise.
- 4.1.4 There was no noise complaint related to 0700 – 1900 hours on normal weekdays was received and followed up by Environmental Team in the reporting period. Hence, no Action Level exceedance was recorded.
- 4.1.5 One (1) Limit Level exceedance was recorded on 15 January 2015 for noise monitoring at M3 in the reporting period. The exceedance was considered non-project-related.
- 4.1.6 The graphical plots of the trends of the monitoring results are provided in Appendix G.

5 ADVICE ON THE SOLID AND LIQUID WASTE MANAGEMENT STATUS

- 5.1.1 As advised by the Contractor, 10,986 m³ of inert C&D material was disposed of as public fill to Tuen Mun 38 (of which 0m³ was broken concrete), while 965 m³ of general refuse was disposed of at NENT landfill. 507 kg of paper/cardboard packaging, 0 kg of plastics and 28 kg of metals were collected by recycling contractors in the reporting period. 3,560 m³, 708 m³, and 6,566 m³ of inert C&D materials were reused on site, in other projects and in NENT for backfilling purpose respectively. 0kg of chemical wastes was collected by licensed contractors in the reporting period.
- 5.1.2 The actual amounts of different types of waste generated by the activities of the Project in the reporting period are summarized in Table 5.1.

Table 5.1 Summary of Waste Flow Table

Waste Type	Actual Amount	Disposal/Reuse Locations
Inert C&D materials	19,600 m ³ (of which 0m ³ was broken concrete)	Tuen Mun 38
General refuse	1,135 m ³	NENT Landfill
Paper/cardboard packaging	842 kg	Recycling Contractors
Plastics	375 kg	Recycling Contractors
Metals	90 kg	Recycling Contractors
C&D materials reused on site	7,458 m ³	Site Area
C&D materials reused in other projects	7,416 m ³	Other projects
C&D materials reused in NENT for backfilling	4,114 m ³	NENT Landfill
Chemical wastes	0kg	Licensed Contractors

6 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

- 6.1.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting period.
- 6.1.2 One (1) Limit Level exceedance was recorded on 15 January 2015 for noise monitoring at M3 in the reporting period. The exceedance was considered non-project-related.

7 SUMMARY OF COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

- 7.1.1 One (1) water-related complaint was received on 31 December 2014 and followed up by the Environmental Team in the reporting period. The full complaint investigation report is annexed in Appendix M of the Monthly EM&A Report for December 2014.
- 7.1.2 One (1) odour-related complaint was received on 25 March 2015 and followed up by the Environmental Team in the reporting period. The full complaint investigation report is annexed in Appendix M of the Monthly EM&A Report for March 2015.
- 7.1.3 No notification of summons and successful prosecution was received in the reporting period.
- 7.1.4 The statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix H.
- 7.1.5 A 24-hour complaint hotline at 6628 8366 has been established for the Project. The hotline number is displayed at the site entrances, fencings and project signboards, as well as printed on publications such as newsletters for the public.

8 REVIEW OF THE VALIDITY OF THE EIA/ERR PREDICTIONS

- 8.1.1 All the air quality monitoring results in the reporting period were below the Action and Limit Levels. The result was in line with the Environmental Impact Assessment (EIA) and Environmental Review Report (ERR) prediction that dust generation would be controlled and would not exceed the acceptable criteria, with proper implementation of the recommended dust mitigation measures.
- 8.1.2 One (1) Limit Level exceedances were recorded on 15 January 2015 respectively for noise monitoring at M3 in the reporting period. The exceedances were considered non-project-related. As a result, this is generally in line with the EIA and ERR prediction that with the implementation of noise mitigation measures, the construction noise from the Project works will meet the stipulated criterion at the residential NSRs and at a majority of the education institutions.

9 REVIEW OF THE EFFECTIVENESS AND EFFICIENCY OF MITIGATION MEASURES

- 9.1.1 The impact air quality and noise monitoring programme ensured that any environmental impacts to the receivers would be readily detected and timely actions could be taken to rectify any non-compliance. The environmental monitoring results indicated that the construction activities in general were in compliance with the relevant environmental requirements and were environmentally acceptable. The weekly site inspections ensured that all the environmental mitigation measures recommended in the EIA/ERR were effectively implemented. Despite the minor deficiencies found during site audits, the Contractor has taken appropriate actions to rectify deficiencies within a reasonable timeframe. Therefore, the effectiveness and efficiency of the mitigation measures were considered high in most of the time.
- 9.1.2 For all the parameters under monitoring as mentioned in Section 8, the measured levels were in line with the EIA and ERR predictions generally. This indicates that the mitigation measures were effectively and efficiently implemented.

10 REVIEW OF SUCCESS OF EM&A PROGRAMME

- 10.1.1 The environmental monitoring methodology was considered well established as the monitoring results were found in line with the EIA predictions.
- 10.1.2 As effective follow-up actions were promptly taken once exceedances were recorded, no further exceedance occurred. The EM&A programme was considered successfully and adequately conducted during the course of the reporting period.

11 COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

11.1 Comments

- 11.1.1 According to the environmental site inspections performed in the reporting period, the following comments are made to the Contractor for precautionary and rectification purposes:

Air Quality Impact

- 11.1.2 The Contractor should spray the soil stockpiles with water or cover them entirely by tarpaulin for dust suppression.
- 11.1.3 The Contractor was reminded to enhance the water spraying frequency for dust suppression.
- 11.1.4 The Contractor was reminded to set up watering facilities as soon as possible and enhance the water spraying frequency to suppress dust. (Reminder)
- 11.1.5 The Contractor was recommended to set up the wheel washing bay properly to avoid runoff from wheel washing.
- 11.1.6 The Contractor was recommended to clean the public road and site entrances regularly to prevent dusty materials from entering public roads.
- 11.1.7 The Contractor should cover cement stock with impervious sheeting entirely.
- 11.1.8 The load on vehicle should be covered entirely before leaving the site.

Construction Noise Impact

- 11.1.9 The Contractor was reminded to wrap the breaking tip of the breaker with sound-proof materials to minimize noise generation during breaking activities. (Reminder)
- 11.1.10 The Contractor was recommended to maximize the area of the sound-proof canvas or use equivalent measures to close the gap between the canvas and the ground, and wrap the breaker with effective sound-proof materials.

Water Quality Impact

- 11.1.11 The Contractor was reminded to cover the slope entirely with tarpaulin to prevent soil from depositing in drainage systems. (Reminder)
- 11.1.12 The Contractor was recommended to clear the muddy water regularly and review the wheel-washing facilities.
- 11.1.13 The Contractor was recommended to review their mechanism to collect muddy water to prevent muddy water from discharging to public areas by clearing the mud accumulating in the U-channel or carrying out equivalent measures.
- 11.1.14 The Contractor was recommended to use another means such as pH papers to monitor the pH of the water in the sedimentation tank regularly.
- 11.1.15 The Contractor was recommended to ensure all water discharged from the construction site has passed the sedimentation tank.
- 11.1.16 The Contractor was recommended to clear the runoff from the public road and ensure there are sufficient sand bundings surrounding the site area.

Chemical and Waste Management

- 11.1.17 The Contractor should clear the oil stains, and inspect and maintain the machine whenever necessary.
- 11.1.18 The Contractor should clear general refuse regularly and provide receptacles for general refuse collection to maintain site hygiene.
- 11.1.19 The Contractor was recommended to provide a drip tray to retain the oil leakage and dispose of the stained soil properly as chemical waste.
- 11.1.20 The Contractor was recommended to stick appropriate labels on the chemical container.

Landscape and Visual Impact

- 11.1.21 No adverse observation was identified in the reporting month.

Miscellaneous

- 11.1.22 The Contractor was recommended to post the latest version of Environmental Permit at all site entrances.
- 11.1.23 The Contractor was recommended to clear the stagnant water to prevent mosquito breeding and clear the refuse to maintain site hygiene.

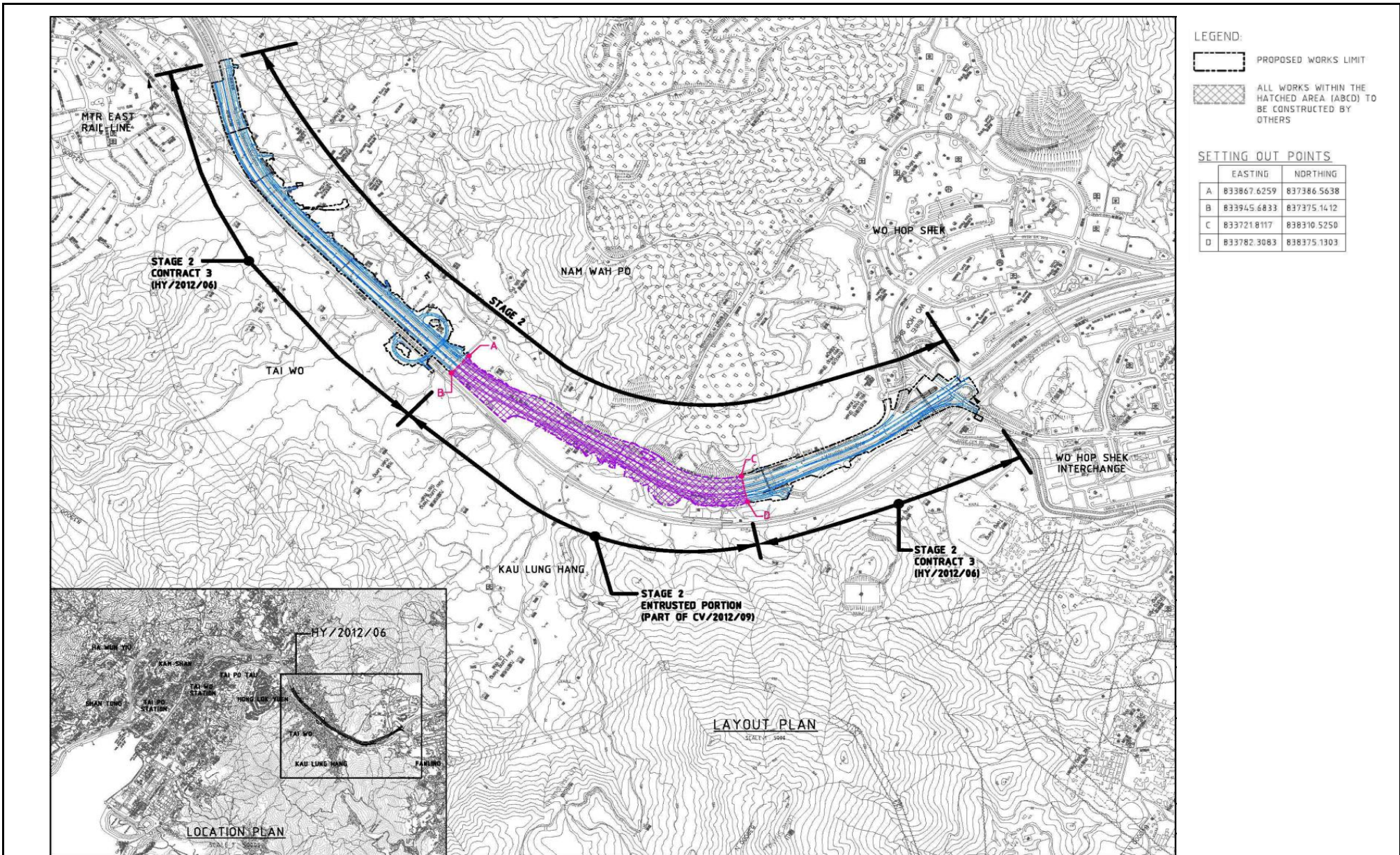
11.2 Recommendations

- 11.2.1 The impact air quality and noise monitoring programme ensures that any deterioration in environmental condition is readily detected and timely actions are taken to rectify any non-compliances. Assessment and analysis of monitoring results collected demonstrated the environmental acceptability of the Project. The weekly environmental site inspections ensure that all the environmental mitigation measures recommended in the ERR are effectively implemented.
- 11.2.2 The EM&A programme effectively monitored the environmental impacts from the construction activities and no particular recommendations were advised for the improvement of the programme.

11.3 Conclusions

- 11.3.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting period.
- 11.3.2 For construction noise, no Action Level exceedance was recorded. One (1) Limit Level exceedances were recorded on 15 January 2015 respectively for noise monitoring at M3 in the reporting period.
- 11.3.3 One (1) water-related complaint was received on 31 December 2014 and followed up by the Environmental Team in the reporting period. The full complaint investigation report is annexed in Appendix M of the Monthly EM&A Report for December 2014.
- 11.3.4 One (1) odour-related complaint was received on 25 March 2015 and followed up by the Environmental Team in the reporting period. The full complaint investigation report is annexed in Appendix M of the Monthly EM&A Report for March 2015.
- 11.3.5 No notification of summons and successful prosecution was received in the reporting period.

FIGURES



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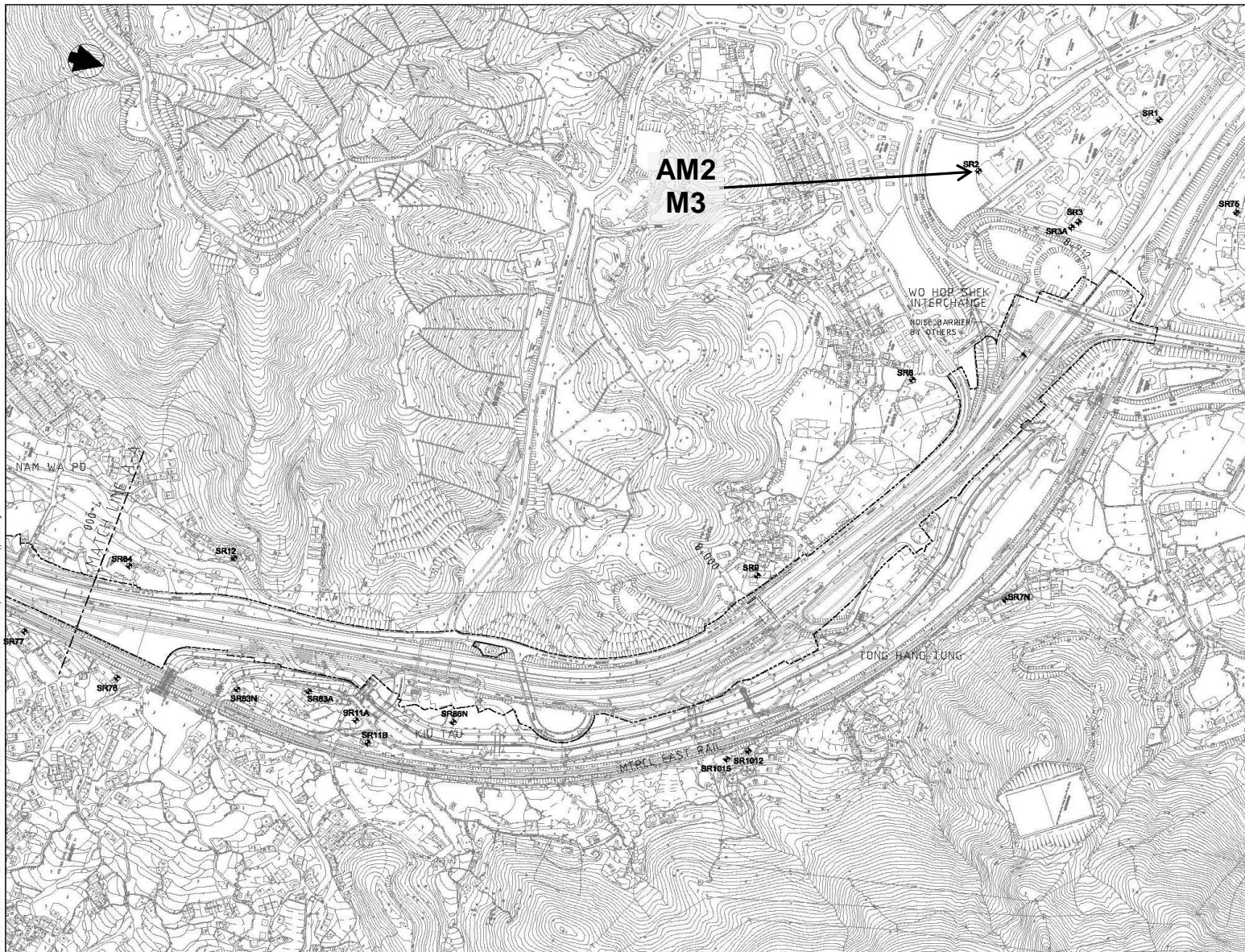
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Layout Plan

Date: Dec 2013

Figure 1.1



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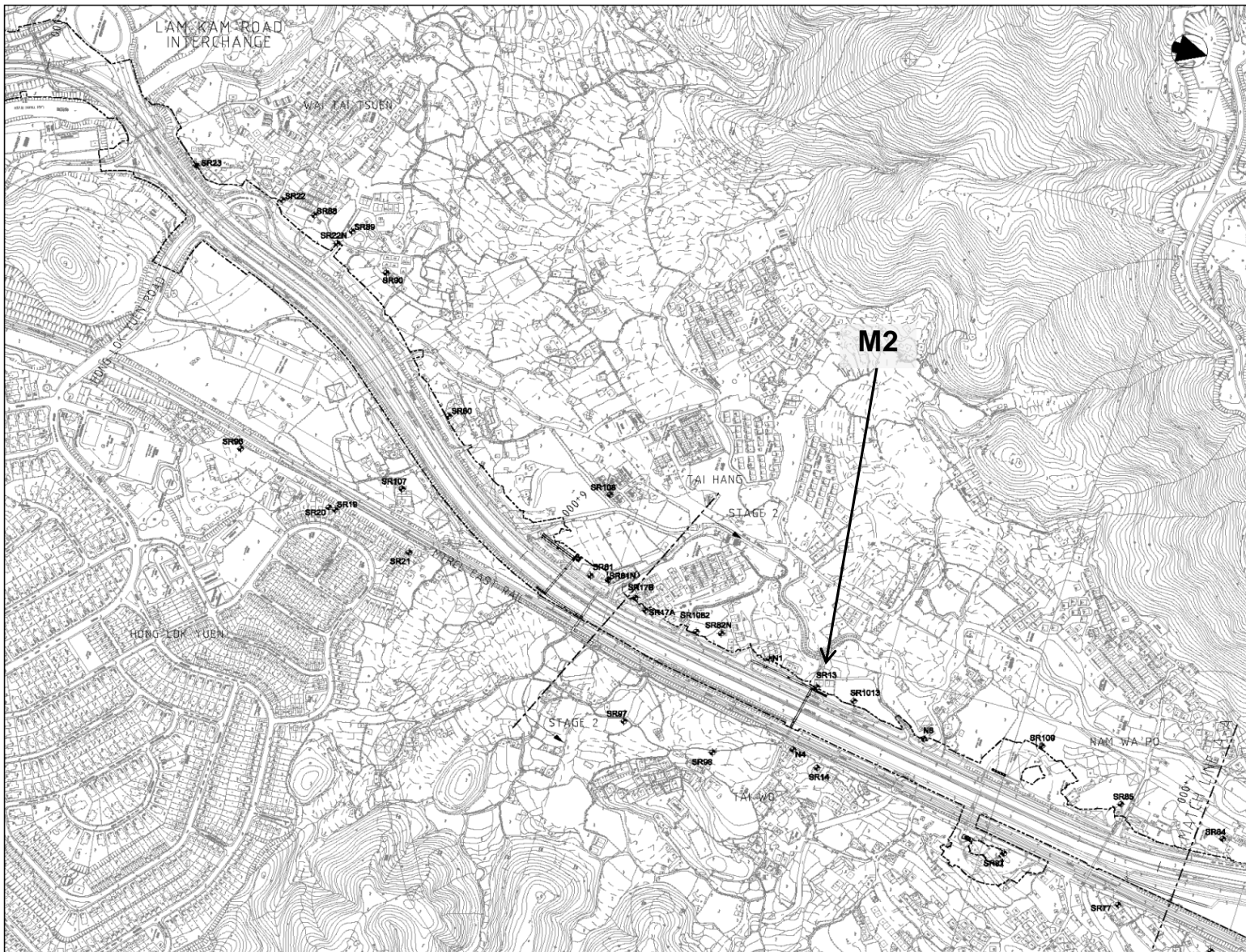
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Locations of Monitoring Station

Date: Dec 2013

Figure 1.2a



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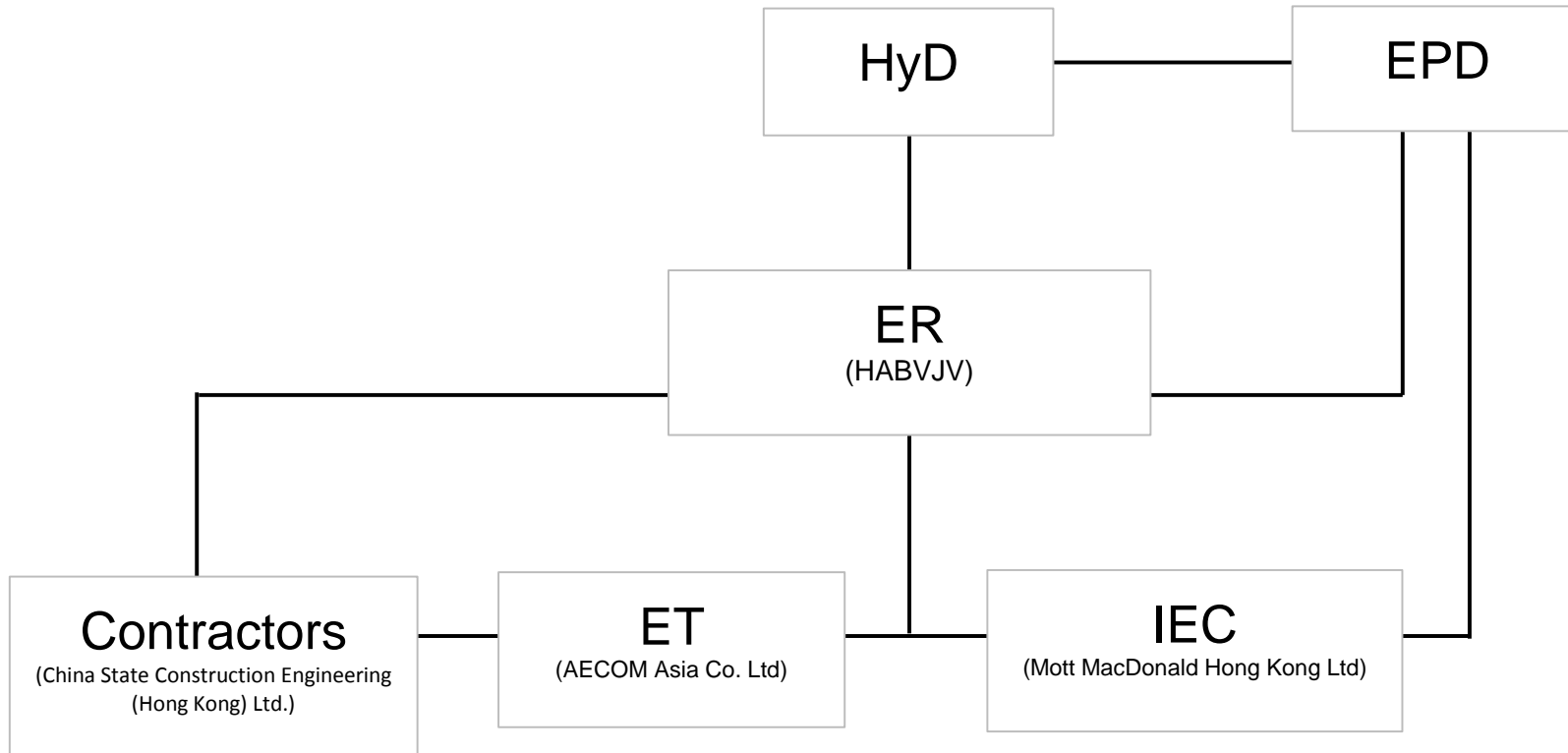


Locations of Monitoring Station

Date: Dec 2013

Figure 1.2b

**APPENDIX A
PROJECT ORGANIZATION STRUCTURE**



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 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Project Organization Structure

**APPENDIX B
CONSTRUCTION PROGRAMMES**

Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	2014-2019																							
								2014				2015				2016				2017				2018				2019			
								Q3	Q4	Q1	Q2	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Contract Condition																															
General																															
Contract Condition																															
COM.100	Date of Commencement of the Works	0	18-Jul-13*		18-Jul-13		0	◆ Date of Commencement of the Works																							
COM.110	Date of Completion of the Works	0		28-Dec-20		28-Dec-20	0																								
KD01	KD-1(1948d)- Section Subject to Excision comprises all works(excl. landscape Softwork & Establishment Works in Zone 1	0		09-Dec-19*		16-Nov-18	-388																								
KD02	KD-2(1948d)- Comprise all Works (excluding Lanscape works) in Zone 2 excluding SA322A, SA323A, SA323B & SA324A	0		15-Nov-19*		16-Nov-18	-364																								
KD03a	KD-3a (270d) - Comprises all works in SA322A (Area: Resite Houses)	0		25-Mar-15*		13-Apr-14	-346	◆ 25-Mar-15* ◆ KD-3a (270d) -Comprises all works in SA322A (Area: Resite Houses)																							
KD03b	KD-3b (630d) - Section Subject to Excision comprises all Works in SA323A & SA323B (New MCLT Location)	0		08-Apr-15*		08-Apr-15	0	◆ 08-Apr-15* ◆ KD-3b (630d) - Section Subject to Excision comprises all Works in SA323A & SA323B (New MCLT Location)																							
KD03c	KD-3c (165d) - Comprises all works in SA324A	0		29-Dec-13*		29-Dec-13	0	◆ Dec-13* ◆ KD-3c (165d) - Comprises all works in SA324A																							
KD04	KD-4(1948d) - Comprises the remainder of the Works (All works except Works included in other sections)	0		19-Mar-19*		16-Nov-18	-123																								
KD05	KD-5 (1978d) - Section Subject to Excision comprise Landscape Softworks in Zone 1	0		23-Dec-19*		16-Dec-18	-372																								
KD06	KD-6 (1978d) - Comprises Landscapes Softworks in Zone 2 excluding SA322A, SA323A, SA323B & SA324A	0		20-Dec-19*		16-Dec-18	-369																								
KD07	KD-7 (1978d) - Comprises remainder of Landscaping Softworks	0		17-Apr-19*		16-Dec-18	-122																								
KD08	KD-8 (2343d) - Section Subject to Excision comprises Establishment Works in Zone 1	0		28-Dec-20*		16-Dec-19	-378																								
KD09	KD-9 (2343d) - Comprises Establishment works in Zone 2 excluding SA322A, SA323A, SA323B & SA324A	0		23-Dec-20*		16-Dec-19	-373																								
KD10	KD-10 (2343d) - Comprises remainder of Establishment works	0		22-Apr-20*		16-Dec-19	-128																								
KD11	KD-11(1061d)- S1: Achievement: Kau Lung Hang Veh. Bridge & Enable demolish Kiu Tai Bridge & Nam Wah Po Footbridge	0		11-Jul-17*		12-Jun-16	-394																								
KD12	KD-12 (1239d) - S2: Achievement Demolition of Nam Wa Po Footbridge	0		09-Jan-18*		07-Dec-16	-398																								
KD13	KD-13 (1309d) -S3: Connection of realigned Tai Wo Service Road West at interface between Zone 2 & 3	0		10-Jan-18*		15-Feb-17	-329																								
KD14	KD-14 1523d) - S4: Achievement: Rd widening & re-const Fanling Highway @ SBZ1 (expt. final pavement and central divider)	0		05-Oct-18*		17-Sep-17	-383																								
KD15	KD-15 (707d) - N1: Achievement: Demolition of Ho Ka Yuen Footbridge	0		02-Nov-15*		24-Jun-15	-131	◆ 02-Nov-15* ◆ KD-15 (707d) - N1: Achievement: Demolition of Ho Ka Yuen Footbridge;																							
KD16	KD-16 (883d) - N2: Connection of realigned Tai Wo Service Road East at interface between Zone 3 & 4	0		17-Dec-15*		17-Dec-15	0	◆ 17-Dec-15* ◆ KD-16 (883d) - N2: Connection of realigned Tai Wo Service Road East at interface between Zone 3 & 4																							
KD17	KD-17 (1097d) -N3: Comission of Slip Road Y (Section bet. Fanling Highway to Mini- roundabout	0		18-Jul-16*		18-Jul-16	0	◆ 18-Jul-16* ◆ KD-17 (1097d) -N3: Comission of Slip Road Y (Section bet. Fanling Highway to Mini- rou																							
KD18	KD-18(1380d) -N4: Achieve: Eastern Rd widening works at Fanling Highway @NBZ2(expt. final pavement and central divider)	0		02-Aug-17*		27-Apr-17	-97	◆ 02-Aug-17* ◆ KD-18(1380d) -N4: Achieve: Eastern Rd widening works at F																							
KD19	KD-19 (1734d) -N5: Achieve: Rd widening & recons t of Fanling Highway@NBZ2 for commission Link Rd 2 & 4 by CV/2012/09	0		17-Aug-18*		16-Apr-18	-123	◆ 17-Aug-18* ◆ KD-19 (1734d) -N5: Achieve: Rd																							
KD20	KD-20 (1064d)- Stage 1: Achievement Whole length of Southern Trunk Sewer(STS) at Tai Wo Service Road West	0		13-Jul-17*		15-Jun-16	-393	◆ 13-Jul-17* ◆ KD-20 (1064d)- Stage 1: Achievement Whole length of Southe																							
POSSA301	Site Area SA301 (0d)	0	12-Dec-13*		12-Dec-13		0	◆ Site Area SA301 (0d)																							
POSSA302	Site Area SA302 (0d)	0	18-Jul-13*		18-Jul-13		0	◆ Site Area SA302 (0d)																							
POSSA310	Site Area SA310 (395d)	0	17-Aug-14*		17-Aug-14		0	◆ Site Area SA310 (395d)																							
POSSA320	Site Area SA320 (0d)	0	01-Jan-15*		31-Dec-14		0	◆ Site Area SA320 (0d)																							

Remaining Level of Effort
 Actual Level of Effort
 Remaining Work
 Critical Remaining Work
 Milestone
 Crit. Milestone

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21-Jan-14	IWP Rev.4		
26-Feb-14	IWP Rev.5		
13-May-14	WP Rev.1		
30-Jun-14	WP Rev. 1A		

Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	2014-2019																							
								2014				2015				2016				2017				2018				2019			
								Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
POSSA320A	Site Area SA320A (120d)	0	23-Apr-14*		22-Apr-14		0			◆ Site Area SA320A (120d)																					
POSSA320B	Site Area SA320B (0d)	0	01-Jan-15*		31-Dec-14		0					◆ Site Area SA320B (0d)																			
POSSA321	Site Area SA321 (120d)	0	01-Jan-15*		31-Dec-14		0					◆ Site Area SA321 (120d)																			
POSSA322	Site Area SA322 (120d)	0	23-Apr-14*		22-Apr-14		0					◆ Site Area SA322 (120d)																			
POSSA322A	Site Area SA322A (180d)	0	01-Jan-15*		31-Dec-14		0					◆ Site Area SA322A (180d)																			
POSSA322B	Site Area SA322B (180d)	0	01-Jan-15*		31-Dec-14		0					◆ Site Area SA322B (180d)																			
POSSA323	Site Area SA323 (360d)	0	01-Jan-15*		31-Dec-14		0					◆ Site Area SA323 (360d)																			
POSSA323A	Site Area SA323A (360d)	0	13-Jul-14*		13-Jul-14		0					◆ Site Area SA323A (360d)																			
POSSA323B	Site Area SA323B (360d)	0	13-Jul-14*		13-Jul-14		0					◆ Site Area SA323B (360d)																			
POSSA324	Site Area SA324 (180d)	0	01-Aug-14*		31-Jul-14		0					◆ Site Area SA324 (180d)																			
POSSA324A	Site Area SA324A (30d)	0	25-Sep-13*		25-Sep-13		0					◆ Site Area SA324A (30d)																			
POSSA325	Site Area SA325 (180d)	0	01-Jul-14*		30-Jun-14		0					◆ Site Area SA325 (180d)																			
POSSA326	Site Area SA326 (180d)	0	01-Aug-14*		31-Jul-14		0					◆ Site Area SA326 (180d)																			
POSSA327	Site Area SA327 (180d)	0	01-Sep-14*		31-Aug-14		0					◆ Site Area SA327 (180d)																			
POSSA327A	Site Area SA327A (730d)	0	18-Jul-15*		18-Jul-15		0																								
POSSA328	Site Area SA328 (90d)	0	15-Jul-14*		14-Jul-14		0					◆ Site Area SA328 (90d)																			
POSSA329	Site Area SA329 (90d)	0	15-Jul-14*		14-Jul-14		0					◆ Site Area SA329 (90d)																			
POSSA340	Site Area SA340 (0d) (All Area except Slope beside Bicycle track)	0	05-May-14*		04-May-14		0					◆ Site Area SA340 (0d) (All Area except Slope beside Bicycle track)																			
POSSA340-1	Site Area SA340 (0d) Slope beside Bicycle track	0	01-Jul-14*		30-Jun-14		0					◆ Site Area SA340 (0d) Slope beside Bicycle track																			
POSSA340A	Site Area SA340A (0d)	0	29-Oct-13*		29-Oct-13		0					◆ Site Area SA340A (0d)																			
POSSA341	Site Area SA341 (90d)	0	09-Jan-14*		08-Jan-14		0					◆ Site Area SA341 (90d)																			
POSSA342	Site Area SA342 (90d)	0	16-Jan-14*		15-Jan-14		0					◆ Site Area SA342 (90d)																			
POSSA342A	Site Area SA342A (90d)	0	16-Jan-14*		15-Jan-14		0					◆ Site Area SA342A (90d)																			
POSSA343	Site Area SA343 (180d)	0	04-Mar-14*		03-Mar-14		0					◆ Site Area SA343 (180d)																			
POSSA343A	Site Area SA343A (180d)	0	04-Mar-14*		03-Mar-14		0					◆ Site Area SA343A (180d)																			
POSSA344	Site Area SA344 (240d)	0	15-Jan-14*		15-Jan-14		0					◆ Site Area SA344 (240d)																			
POSSA345	Site Area SA345 (0d)	0	01-Apr-15*		31-Mar-15		0																								
POSSA345A	Site Area SA345A (0d)	0	18-Jul-13*		18-Jul-13		0					◆ Site Area SA345A (0d)																			
POSSA346	Site Area SA346 (0d)	0	27-Nov-13*		27-Nov-13		0					◆ Site Area SA346 (0d)																			
Z1.1000	Instruction by The Engineer to Commence Work (Section Subject to Excision-424d)(SA310)	0		14-Sep-14*		14-Sep-14	0																								

Partial Possession Status
Contract Condition

	Remaining Level of Effort
	Actual Level of Effort
	Remaining Work
	Critical Remaining Work
◆	Milestone
◆	Crit. Milestone

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21-Jan-14	IWP Rev.4		
26-Feb-14	IWP Rev.5		
13-May-14	WP Rev.1		
30-Jun-14	WP Rev. 1A		

Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	Gantt Chart																									
								2013	2014				2015				2016				2017				2018				2019				
								Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Contract Condition																																	
POSSA320-100	SA320B/321	0	02-Jan-15			29-Nov-13	-317	◆ SA320B/321																									
POSSA320-110	SA320B/ID-1	0	10-Apr-14*			09-Apr-14	0	◆ SA320B/ID-1																									
POSSA320-120	SA320B/322	0	09-Apr-14*			08-Apr-14	0	◆ SA320B/322																									
POSSA320-130	SA320B/322A	0	14-Jan-14*			13-Jan-14	0	◆ SA320B/322A																									
POSSA320-140	SA320/323	0	02-Jan-15			15-Aug-14	-114	◆ SA320/323																									
POSSA320-150	SA320/324	0	09-Jan-14*			08-Jan-14	0	◆ SA320/324																									
POSSA320-160	SA320/ID-2	0	23-Apr-14*			22-Apr-14	0	◆ SA320/ID-2																									
POSSA320-170	SA320/325	0	23-Apr-14*			22-Apr-14	0	◆ SA320/325																									
POSSA320-180	SA320/326	0	02-Jan-15			11-Feb-14	-265	◆ SA320/326																									
POSSA320-190	SA320/327	0	18-Dec-13*			17-Dec-13	0	◆ SA320/327																									
POSSA320-200	SA320/328	0	04-Dec-13*			03-Dec-13	0	◆ SA320/328																									
POSSA320-210	SA320/South bound	0	18-Jul-13*			18-Jul-13	0	◆ SA320/South bound																									
POSSA340-100	SA340 HKY Bridge TWSR-W side	0	19-Aug-13*			19-Aug-13	0	◆ SA340 HKY Bridge TWSR-W side																									
Site Office																																	
General																																	
Preliminary																																	
General																																	
PR.1030	Mobilization	42	10-Jul-13	20-Aug-13	04-Dec-13	14-Jan-14	147	■																									
PR.1040	Principal Office for the Engineer	86	12-Dec-13	03-Apr-14	05-Aug-13	15-Nov-13	-108	■																									
PR.1050	Secondary Office for the Engineer	14	12-Dec-13	25-Dec-13	02-Nov-13	15-Nov-13	-40	■																									
PR.1060	Erect Contractor's Office Compound	86	18-Jul-13	29-Oct-13	02-Oct-13	14-Jan-14	63	■																									
PR.1070	Provision of Contract Computer Facilities for Engineer	60	04-Apr-14	02-Jun-14	16-Nov-13	14-Jan-14	-139	■																									
ZONE 1 (Ch. 5640 to 5880)																																	
Noise Barrier Along TWSR-West and Laying New Utilities																																	
Site Clearance & Demolition of Existing Structure																																	
General																																	
ADVZ10100	Site clearance	30	18-Aug-14	22-Sep-14	24-Sep-14	30-Oct-14	31	■																									
DSD Southern Trunk Sewer, Water Main, Fire Main Works																																	
DSD Southern Trunk Sewer, Water Main Fire Main Works																																	
DSD0090	All backfill along TWSR-W complete	0	01-Dec-16			04-Nov-15	-315	◆ All backfill along TWSR-W complete																									
DSD0100	DSD Trunk Sewer Laying - overall testing (Zone 1 & Zone 2)	45	01-Dec-16	25-Jan-17	04-Nov-15	28-Dec-15	-315	■																									
DSD0110	DSD Trunk Sewer Laying - overall inspection	40	26-Jan-17	21-Mar-17	29-Dec-15	23-Feb-16	-315	■																									
DSD0120	DSD Trunk Sewer Laying - overall redification	90	22-Mar-17	13-Jul-17	24-Feb-16	15-Jun-16	-315	■																									
NB42 (Ch.5640-5740)-TWSR West Side																																	

Remaining Level of Effort
 Actual Level of Effort
 Remaining Work
 Critical Remaining Work
 Milestone
 Crit. Milestone

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21-Jan-14	IWP Rev.4		
26-Feb-14	IWP Rev.5		
13-May-14	WP Rev.1		
30-Jun-14	WP Rev. 1A		

Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	Gantt Chart																											
								2014		2015				2016				2017				2018				2019									
								Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
TSZ10200	Sheet Piling & Excavation(-5m below ground) (along NB47B)	18	27-Mar-15	20-Apr-15	07-May-15	28-May-15	31																												
TSZ10210	DSD Trunk Sewer laying (along NB47B)	18	21-Apr-15	12-May-15	29-May-15	18-Jun-15	31																												
TSZ10220	Backfill up to NB47B footing level	25	13-May-15	11-Jun-15	19-Jun-15	20-Jul-15	31																												
TSZ10230	Watermain installation (along NB47B)	20	12-Jun-15	07-Jul-15	06-Aug-15	28-Aug-15	45																												
TSZ10240	Firemain installation (along NB47B)	20	08-Jul-15	30-Jul-15	29-Aug-15	21-Sep-15	45																												
Underground Utility Works																																			
UUZ10120	Utility cable laying by Utility companies (Along NB47B)	24	20-Jul-15	15-Aug-15	25-Aug-15	21-Sep-15	31																												
UUZ10130	Z1 Utility work complete is ready for energization	0		22-Sep-15		31-Oct-15	31																												
Noise Barrier Along Fanling Highway N/B																																			
Site Clearance & Demolition of Existing Structure																																			
General																																			
ADVZ10120	Site Clearance (for NB Along FH N/B)	30	01-Dec-16	07-Jan-17	30-Dec-15	03-Feb-16	-269																												
ADVZ10130	Zone 1 - Noise Barrier at FH N/B complete	0		01-Sep-17		29-Sep-16	-269																												
Underground Utility Works																																			
ADVZ10110	Existing Utility cable disconnected & ready to be removed (Z1 & Z2 cable complete installation & connection)	0	01-Dec-16		02-Nov-15		-142																												
NB43B (Ch.5640-5880)-FH N/B Side																																			
Noise Barrier Works																																			
NB01210	NB43B-1 (0-100m) - Sheet piling & Excavation	18	09-Jan-17	06-Feb-17	04-Feb-16	04-Mar-16	-269																												
NB01220	NB43B-1 - Footing & Wall Structure	40	07-Feb-17	24-Mar-17	05-Mar-16	25-Apr-16	-269																												
NB01230	NB43B-1 - backfilling	50	25-Mar-17	29-May-17	02-Aug-16	29-Sep-16	-189																												
NB01240	NB43B-1 - NB production	45	25-Mar-17	08-May-17	28-Sep-18	11-Nov-18	552																												
NB01250	NB43B-1 - NB post & panel installation	5	31-May-17	05-Jun-17	12-Nov-18	16-Nov-18	434																												
NB01260	NB43B-2 (100-200m) - Sheet piling & Excavation	18	04-Mar-17	24-Mar-17	05-Apr-16	25-Apr-16	-269																												
NB01270	NB43B-2 - Footing & Wall Structure	40	25-Mar-17	17-May-17	26-Apr-16	14-Jun-16	-269																												
NB01280	NB43B-2 - backfilling	50	18-May-17	17-Jul-17	02-Aug-16	29-Sep-16	-229																												
NB01290	NB43B-2 - NB production	45	18-May-17	01-Jul-17	28-Sep-18	11-Nov-18	498																												
NB01300	NB43B-2 - NB post & panel installation	5	18-Jul-17	22-Jul-17	12-Nov-18	16-Nov-18	394																												
NB01310	NB43B-3 (200-260m) - Sheet piling & Excavation	12	04-May-17	17-May-17	31-May-16	14-Jun-16	-269																												
NB01320	NB43B-3 - Footing & Wall Structure	40	18-May-17	05-Jul-17	15-Jun-16	01-Aug-16	-269																												
NB01330	NB43B-3 - backfilling	50	06-Jul-17	01-Sep-17	02-Aug-16	29-Sep-16	-269																												
NB01340	NB43B-3 - NB production	45	06-Jul-17	19-Aug-17	28-Sep-18	11-Nov-18	449																												
NB01350	NB43B-3 - NB post & panel installation	5	02-Sep-17	07-Sep-17	12-Nov-18	16-Nov-18	354																												
NB03295	Z1 FHN/B NB backfilling completed	0		01-Sep-17		29-Sep-16	-269																												
TWSR-West Construction																																			

Remaining Level of Effort
 Actual Level of Effort
 Remaining Work
 Critical Remaining Work
 Milestone
 Crit. Milestone

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30-Jun-14	WP Rev. 1A		

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								2014		2015				2016				2017				2018				2019			
								Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Drainage & Road Works																													
Ch 5640-5880																													
RDZ10100	Z1: New Tai Wo Service Road West - Drainage & Road works (2 lanes)	90	02-Sep-17	19-Dec-17	01-Aug-18	16-Nov-18	269	[Gantt bar from Q3 2017 to Q4 2017]																					
Noise Barrier Along Fanling Highway S/B																													
NB44 (Ch.5700-5760)-FH S/B Side																													
Noise Barrier Works																													
NB01360	NB44 - Sheet piling & Excavation	18	19-Mar-15	11-Apr-15	29-Jul-17	18-Aug-17	690	[Gantt bar from Q2 2015 to Q4 2015]																					
NB01370	NB44 - Footing & Wall Structure	60	13-Apr-15	24-Jun-15	19-Aug-17	31-Oct-17	690	[Gantt bar from Q3 2015 to Q4 2015]																					
NB01380	NB44 - backfilling	50	25-Jun-15	22-Aug-15	01-Nov-17	30-Dec-17	690	[Gantt bar from Q4 2015 to Q4 2015]																					
NB01390	NB44 - NB production	45	25-Jun-15	08-Aug-15	28-Sep-18	11-Nov-18	1191	[Gantt bar from Q4 2015 to Q4 2015]																					
NB01400	NB44 - NB post & panel installation	5	24-Aug-15	28-Aug-15	12-Nov-18	16-Nov-18	946	[Gantt bar from Q4 2015 to Q4 2015]																					
NB45 (Ch.5760-5820)-FH S/B Side																													
Noise Barrier Works																													
NB01410	NB45 - Sheet piling & Excavation	18	24-Aug-15	12-Sep-15	02-Jan-18	22-Jan-18	690	[Gantt bar from Q4 2015 to Q4 2015]																					
NB01420	NB45 - Footing & Wall Structure	60	14-Sep-15	25-Nov-15	23-Jan-18	09-Apr-18	690	[Gantt bar from Q4 2015 to Q4 2015]																					
NB01430	NB45 - backfilling	50	26-Nov-15	26-Jan-16	10-Apr-18	08-Jun-18	690	[Gantt bar from Q4 2015 to Q4 2015]																					
NB01440	NB45 - NB production	45	26-Nov-15	09-Jan-16	28-Sep-18	11-Nov-18	1037	[Gantt bar from Q4 2015 to Q4 2015]																					
NB01450	NB45 - NB post & panel installation	5	27-Jan-16	01-Feb-16	12-Nov-18	16-Nov-18	818	[Gantt bar from Q4 2015 to Q4 2015]																					
NB46 (Ch.5820-5880)-FH S/B Side																													
Noise Barrier Works																													
NB01460	NB46 - Sheet piling & Excavation	18	27-Jan-16	25-Feb-16	09-Jun-18	30-Jun-18	690	[Gantt bar from Q4 2015 to Q4 2015]																					
NB01470	NB46 - Footing & Wall Structure	60	26-Feb-16	11-May-16	03-Jul-18	10-Sep-18	690	[Gantt bar from Q4 2015 to Q4 2015]																					
NB01480	NB46 - backfilling	50	12-May-16	12-Jul-16	11-Sep-18	10-Nov-18	690	[Gantt bar from Q4 2015 to Q4 2015]																					
NB01490	NB46 - NB production	45	12-May-16	25-Jun-16	28-Sep-18	11-Nov-18	869	[Gantt bar from Q4 2015 to Q4 2015]																					
NB01500	NB46 - NB post & panel installation	5	13-Jul-16	18-Jul-16	12-Nov-18	16-Nov-18	690	[Gantt bar from Q4 2015 to Q4 2015]																					
Fanling Highway Construction																													
Drainage & Road Works																													
Ch 5640-5880																													
RDZ11000	Z1 (Ch5640-5880) : Fanling Highway Road works Start	0	01-Feb-18		03-Jan-17		-317	[Milestone diamond at Q3 2017]																					
RDZ11010	Z1 (Ch5640-5880): Fanling Highway N/B - D&R works (lane 1)	20	01-Feb-18	26-Feb-18	03-Jan-17	25-Jan-17	-317	[Gantt bar from Q3 2017 to Q4 2017]																					
RDZ11020	Z1 (Ch5640-5880) : Fanling Highway N/B - D&R works (lane 2)	20	09-May-18	01-Jun-18	11-Apr-17	09-May-17	-317	[Gantt bar from Q3 2017 to Q4 2017]																					
RDZ11030	Z1 (Ch5640-5880) : Fanling Highway N/B - D&R works (lane 3)	20	09-Aug-18	31-Aug-18	17-Jul-17	08-Aug-17	-317	[Gantt bar from Q3 2017 to Q4 2017]																					
RDZ11040	Z1 (Ch5640-5880) : Fanling Highway N/B - D&R works (lane 4)	20	09-Nov-18	01-Dec-18	16-Oct-17	08-Nov-17	-317	[Gantt bar from Q3 2017 to Q4 2017]																					
RDZ11050	Z1 (Ch5640-5880) : Fanling Highway S/B - D&R works (lane 1)	20	12-Feb-19	06-Mar-19	17-Jan-18	08-Feb-18	-317	[Gantt bar from Q3 2017 to Q4 2017]																					
RDZ11060	Z1 (Ch5640-5880) : Fanling Highway S/B - D&R works (lane 2)	20	17-May-19	10-Jun-19	23-Apr-18	16-May-18	-317	[Gantt bar from Q3 2017 to Q4 2017]																					

Remaining Level of Effort
 Actual Level of Effort
 Remaining Work
 Critical Remaining Work
 Milestone
 Crit. Milestone

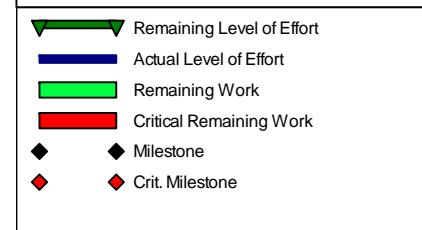
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13-May-14	WP Rev.1		
30-Jun-14	WP Rev. 1A		

Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	3																							
								2014				2015				2016				2017				2018				2019			
								Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Underground Utility Works																															
UUZ20100	Utility cable laying by Utility companies (Along NB47)	24	20-Apr-15	18-May-15	18-Mar-14	15-Apr-14	-317																								
NB47A (Ch.5950-5975)-TWSR West Side																															
Noise Barrier Works																															
NB00295	NB47A - D 1-1 Pre-drilling	27	02-Jan-15	02-Feb-15	03-Mar-14	02-Apr-14	-248																								
NB00300	NB47A - D 1-1 piling (0.19m -24no)	50	31-Mar-15	02-Jun-15	03-Apr-14	07-Jun-14	-289																								
NB00320	NB47A - D 1-1 Footing & Wall Structure	45	22-Jul-15	11-Sep-15	23-Jun-14	14-Aug-14	-317																								
NB00330	NB47A - backfilling	25	30-Sep-15	30-Oct-15	01-Sep-14	30-Sep-14	-317																								
NB00335	Backfilling (Along NB47A-above ID1)	25	07-May-15	05-Jun-15	02-Oct-15	31-Oct-15	122																								
NB00340	NB47A - NB production	45	12-Sep-15	26-Oct-15	28-Sep-18	11-Nov-18	1112																								
NB00350	NB47A - NB post & panel installation	5	31-Oct-15	05-Nov-15	12-Nov-18	16-Nov-18	890																								
DSD Southern Trunk Sewer, Water Main Fire Main Works																															
TSZ10350	Sheet Piling & Excavation(-5m below ground) (along NB47A)	12	08-Jul-15	21-Jul-15	09-Jun-14	21-Jun-14	-317																								
TSZ10380	Watermain installation (along NB47A)	14	12-Sep-15	29-Sep-15	15-Aug-14	30-Aug-14	-317																								
TSZ10390	Firemain installation (along NB47A)	14	12-Sep-15	29-Sep-15	15-Aug-14	30-Aug-14	-317																								
TSZ10560	Watermain & Firemain installation (Along NB47A-above ID1)	28	31-Mar-15	06-May-15	28-Aug-15	30-Sep-15	122																								
DSD Southern Trunk Sewer - Trenchless Construction																															
TSZ11070	Construct Pipe jacking pits	60	22-Jul-15	30-Sep-15	28-Nov-14	09-Feb-15	-185																								
TSZ11080	DSD Trunk Sewer laying (along NB47A- ID1-1)-Trenchless	120	02-Oct-15	03-Mar-16	10-Feb-15	15-Jul-15	-185																								
TSZ11090	Both end manholes construction & trench sewer connection	60	04-Mar-16	19-May-16	16-Jul-15	23-Sep-15	-185																								
TSZ11100	Backfilling of jacking pits	32	20-May-16	27-Jun-16	24-Sep-15	03-Nov-15	-185																								
Underground Utility Works																															
UUZ20110	Utility cable laying by Utility companies (Along NB47A)	12	12-Sep-15	25-Sep-15	18-Aug-14	30-Aug-14	-315																								
UUZ20240	Utility cable laying by Utility companies (Along NB47A-above ID1)	12	31-Mar-15	16-Apr-15	16-Sep-15	30-Sep-15	138																								
NB48 (Ch.5995-6120)-TWSR West Side																															
Noise Barrier Works																															
NB00355	NB48 - Pre-drilling	27	03-Feb-15	13-Mar-15	12-Apr-14	19-May-14	-241																								
NB00360	NB48 (NB48/1-5 up to THFB) piling (0.19m -54no)	81	14-Mar-15	23-Jun-15	20-May-14	23-Aug-14	-241																								
NB00380	NB48 (Ch5995-6060) - Footing & Wall Structure	40	16-Sep-15	04-Nov-15	19-Nov-14	07-Jan-15	-241																								
NB00390	NB48 (Ch5995-6060) - backfilling	34	10-Dec-15	21-Jan-16	12-Feb-15	31-Mar-15	-241																								
NB00400	NB48 (Ch5995-6060) - NB production	45	05-Nov-15	19-Dec-15	28-Sep-18	11-Nov-18	1058																								
NB00410	NB48 (Ch5995-6060) - NB post & panel installation	5	22-Jan-16	27-Jan-16	12-Nov-18	16-Nov-18	822																								
NB00415	NB48 (NB48/5-10) Pre-drilling	64	02-Jan-15	25-Mar-15	12-Sep-14	27-Nov-14	-91																								
NB00420	NB48 (NB48/5-10) piling (0.19m -64no)	96	26-Mar-15	23-Jul-15	28-Nov-14	31-Mar-15	-91																								



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26-Feb-14	IWP Rev.5		
13-May-14	WP Rev.1		
30-Jun-14	WP Rev. 1A		

Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	3																											
								2014				2015				2016				2017				2018				2019							
								Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
NB00440	NB48 (Ch6060-6120) - Footing & Wall Structure	40	05-May-16	22-Jun-16	07-Jul-15	21-Aug-15	-241																												
NB00450	NB48 (Ch6060-6120) - backfilling	34	22-Jul-16	30-Aug-16	19-Sep-15	31-Oct-15	-241																												
NB00460	NB48 (Ch6060-6120) - NB production	45	23-Jun-16	06-Aug-16	28-Sep-18	11-Nov-18	827																												
NB00470	NB48 (Ch6060-6120) - NB post & panel installation	5	31-Aug-16	05-Sep-16	12-Nov-18	16-Nov-18	648																												
DSD Southern Trunk Sewer, Water Main Fire Main Works																																			
TSZ10400	Sheet Piling & Excavation(-5m below ground) (along NB48, 0-60m)	21	24-Jun-15	18-Jul-15	25-Aug-14	18-Sep-14	-241																												
TSZ10410	DSD Trunk Sewer laying (along NB48, 0-60m)	18	20-Jul-15	08-Aug-15	19-Sep-14	11-Oct-14	-241																												
TSZ10420	Backfill up to NB48, 0-60m footing level	32	10-Aug-15	15-Sep-15	13-Oct-14	18-Nov-14	-241																												
TSZ10430	Watermain installation (along NB48, 0-60m)	30	16-Sep-15	23-Oct-15	01-Dec-14	07-Jan-15	-231																												
TSZ10440	Firemain installation (along NB48, 0-60m)	30	24-Oct-15	27-Nov-15	08-Jan-15	11-Feb-15	-231																												
TSZ10450	Sheet Piling & Excavation(-5m below ground) (along NB48, 60-110m)	26	22-Jan-16	01-Mar-16	01-Apr-15	05-May-15	-241																												
TSZ10460	DSD Trunk Sewer laying (along NB48, 60-110m)	18	02-Mar-16	22-Mar-16	06-May-15	27-May-15	-241																												
TSZ10470	Backfill up to NB48, 60-110m footing level	32	23-Mar-16	04-May-16	28-May-15	06-Jul-15	-241																												
TSZ10480	Watermain installation (along NB48, 60-110m)	26	05-May-16	04-Jun-16	21-Jul-15	19-Aug-15	-229																												
TSZ10490	Firemain installation (along NB48, 60-110m)	26	06-Jun-16	07-Jul-16	20-Aug-15	18-Sep-15	-229																												
Underground Utility Works																																			
UUZ20120	Utility cable laying by Utility companies (Along NB48, 0-60m)	30	05-Nov-15	09-Dec-15	08-Jan-15	11-Feb-15	-241																												
UUZ20130	Utility cable laying by Utility companies (Along NB48, 60-110m)	24	23-Jun-16	21-Jul-16	22-Aug-15	18-Sep-15	-241																												
NB49 (Ch.6145-6215)-TWSR West Side																																			
Noise Barrier Works																																			
NB00485	NB49 - Pre-drilling	50	09-Feb-15	18-Apr-15	23-Sep-14	21-Nov-14	-114																												
NB00490	NB49 piling (0.19m -96no)	96	20-Apr-15	13-Aug-15	22-Nov-14	25-Mar-15	-114																												
NB00510	NB49 - Footing & Wall Structure	52	02-Oct-15	02-Dec-15	16-May-15	18-Jul-15	-114																												
NB00520	NB49 - backfilling	51	18-Jan-16	29-Mar-16	31-Aug-15	31-Oct-15	-114																												
NB00530	NB49 - NB production	45	03-Dec-15	16-Jan-16	28-Sep-18	11-Nov-18	1030																												
NB00540	NB49 - NB post & panel installation	5	30-Mar-16	05-Apr-16	12-Nov-18	16-Nov-18	775																												
DSD Southern Trunk Sewer, Water Main Fire Main Works																																			
TSZ10500	Sheet Piling & Excavation(-7m below ground) (along NB49)	14	14-Aug-15	29-Aug-15	26-Mar-15	14-Apr-15	-114																												
TSZ10510	DSD Trunk Sewer laying (along NB49)	12	31-Aug-15	12-Sep-15	15-Apr-15	28-Apr-15	-114																												
TSZ10520	Backfill up to NB49 footing level	14	14-Sep-15	30-Sep-15	29-Apr-15	15-May-15	-114																												
TSZ10530	Watermain installation (along NB49)	20	02-Oct-15	26-Oct-15	01-Jun-15	24-Jun-15	-102																												
TSZ10540	Firemain installation (along NB49)	20	27-Oct-15	18-Nov-15	25-Jun-15	18-Jul-15	-102																												
Underground Utility Works																																			

Remaining Level of Effort
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13-May-14	WP Rev.1		
30-Jun-14	WP Rev. 1A		

Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	2014																												
								3		2014				2015				2016				2017				2018				2019						
								Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
NB00710	NB54 - NB production	45	06-Feb-16	22-Mar-16	28-Sep-18	11-Nov-18	964																													
NB00720	NB54 - NB post & panel installation	5	20-May-16	25-May-16	12-Nov-18	16-Nov-18	734																													
DSD Southern Trunk Sewer, Water Main Fire Main Works																																				
TSZ10600	Sheet Piling & Excavation(~5m below ground) (along NB54)	14	02-Sep-15	17-Sep-15	15-Dec-14	02-Jan-15	-207																													
TSZ10610	DSD Trunk Sewer laying (along NB54 except D 2-1 section)	21	18-Sep-15	14-Oct-15	13-Mar-15	09-Apr-15	-155																													
TSZ10620	Backfill up to NB54 footing level	35	15-Oct-15	25-Nov-15	10-Apr-15	21-May-15	-155																													
TSZ10630	Watermain installation (along NB54)	30	26-Nov-15	02-Jan-16	22-Jun-15	27-Jul-15	-131																													
TSZ10640	Firemain installation (along NB54)	30	04-Jan-16	06-Feb-16	28-Jul-15	31-Aug-15	-131																													
DSD Southern Trunk Sewer - Trenchless Construction																																				
TSZ10990	Construct Pipe jacking pits	60	18-Sep-15	30-Nov-15	03-Jan-15	21-Mar-15	-207																													
TSZ11000	DSD Trunk Sewer laying (along NB54 - ID 2-1) -Trenchless	120	01-Dec-15	06-May-16	23-Mar-15	17-Aug-15	-207																													
TSZ11010	2nd end manhole construction & trench sewer connection	30	07-May-16	13-Jun-16	18-Aug-15	21-Sep-15	-207																													
TSZ11020	Backfilling of jacking pits	34	14-Jun-16	23-Jul-16	22-Sep-15	03-Nov-15	-207																													
Underground Utility Works																																				
UZZ20160	Utility cable laying by Utility companies (Along NB54, 0-40m)	24	17-Feb-16	15-Mar-16	04-Aug-15	31-Aug-15	-155																													
NB54A (Ch.6290-6350)-TWSR West Side																																				
Noise Barrier Works																																				
NB00730	NB54A Pre-drilling	36	18-Oct-14	28-Nov-14	02-Sep-14	16-Oct-14	-37																													
NB00740	NB54A piling (0.19m -72m)	108	02-Sep-15	12-Jan-16	17-Oct-14	03-Mar-15	-257																													
NB00760	NB54A - Footing & Wall Structure	40	08-Jul-16	23-Aug-16	06-Jun-15	24-Jul-15	-317																													
NB00770	NB54A - backfilling	52	29-Sep-16	30-Nov-16	29-Aug-15	31-Oct-15	-317																													
NB00780	NB54A - NB production	45	24-Aug-16	07-Oct-16	28-Sep-18	11-Nov-18	765																													
NB00790	NB54A - NB post & panel installation	5	01-Dec-16	06-Dec-16	12-Nov-18	16-Nov-18	572																													
DSD Southern Trunk Sewer, Water Main Fire Main Works																																				
TSZ10650	Sheet Piling & Excavation(~5m below ground) (along NB54A)	26	06-Apr-16	06-May-16	04-Mar-15	02-Apr-15	-317																													
TSZ10660	DSD Trunk Sewer laying (along NB54A)	18	07-May-16	28-May-16	07-Apr-15	27-Apr-15	-317																													
TSZ10670	Backfill up to NB54A footing level	32	30-May-16	07-Jul-16	28-Apr-15	05-Jun-15	-317																													
TSZ10680	Watermain installation (along NB54A)	30	08-Jul-16	11-Aug-16	18-Jun-15	24-Jul-15	-307																													
TSZ10690	Firemain installation (along NB54A)	30	12-Aug-16	15-Sep-16	25-Jul-15	28-Aug-15	-307																													
Underground Utility Works																																				
UZZ20170	Utility cable laying by Utility companies (Along NB54A, 0-60m)	30	24-Aug-16	28-Sep-16	25-Jul-15	28-Aug-15	-317																													
NB57 (Ch.6365-6445)-TWSR West Side																																				
Noise Barrier Works																																				
NB00800	NB57 -Pre-drilling	40	02-Jul-14	16-Aug-14	17-Jan-14	13-Mar-14	-126																													

- Remaining Level of Effort
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- Crit. Milestone

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13-May-14	WP Rev.1		
30-Jun-14	WP Rev. 1A		

Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	Gantt Chart																							
								2014		2015				2016				2017				2018				2019					
								Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
ID1-0100	Box Culvert Extension ID1 structure	118	01-Nov-14	30-Mar-15	01-Nov-13	31-Mar-14	-118	[Gantt Chart: Red bar from Q4 2013 to Q1 2014]																							
Box Culvert Extension ID2																															
Structure Works																															
ID2-0100	Box Culvert Extension ID2 structure	118	01-Nov-14	30-Mar-15	01-Nov-13	31-Mar-14	-118	[Gantt Chart: Red bar from Q4 2013 to Q1 2014]																							
Noise Barrier Along Fanling Highway N/B																															
Site Clearance & Demolition of Existing Structure																															
General																															
ADVZ20130	Existing Utility cable disconnected & ready to be removed (Z1 & Z2 cable complete installation & connection)	0	01-Dec-16		02-Nov-15		-142	[Gantt Chart: Milestone diamond at Q4 2016]																							
ADVZ20140	Site Clearance (for NB Along FH N/B)	30	27-Oct-16	30-Nov-16	24-Sep-15	31-Oct-15	-317	[Gantt Chart: Red bar from Q4 2015 to Q1 2016]																							
ADVZ20160	Temp Road construction for TTA for NB works	60	20-Sep-16	30-Nov-16	20-Aug-15	31-Oct-15	-317	[Gantt Chart: Red bar from Q4 2015 to Q1 2016]																							
ADVZ20170	Zone 2 - Noise Barrier at FH N/B complete	0		31-Oct-17		29-Sep-16	-317	[Gantt Chart: Milestone diamond at Q4 2016]																							
NB43A (Ch.5880-6060)-FH N/B Side																															
Noise Barrier Works																															
NB001070	NB43A - D 1-2 Pre-drilling	6	01-Dec-16	07-Dec-16	16-Nov-15	21-Nov-15	-305	[Gantt Chart: Red bar from Q4 2015 to Q1 2016]																							
NB001080	NB43A- ID1-2 piling (0.19m -18no)-1 rigs	27	08-Dec-16	11-Jan-17	23-Nov-15	23-Dec-15	-305	[Gantt Chart: Red bar from Q4 2015 to Q1 2016]																							
NB001090	NB43A - D 1-2 Sheet piling & Excavation	10	12-Jan-17	23-Jan-17	07-Jan-16	18-Jan-16	-296	[Gantt Chart: Red bar from Q4 2015 to Q1 2016]																							
NB001100	NB43A - D 1-2 Footing & Wall Structure	40	24-Jan-17	18-Mar-17	19-Jan-16	14-Mar-16	-296	[Gantt Chart: Red bar from Q4 2015 to Q1 2016]																							
NB001110	NB43A - D 1-2 backfilling	50	20-Mar-17	23-May-17	15-Mar-16	18-May-16	-296	[Gantt Chart: Red bar from Q4 2015 to Q1 2016]																							
NB001120	NB43A - D 1-2 NB production	45	18-Mar-17	02-May-17	28-Sep-18	11-Nov-18	558	[Gantt Chart: Green bar from Q1 2017 to Q4 2018]																							
NB001130	NB43A - D 1-2 NB post & panel installation	5	24-May-17	29-May-17	12-Nov-18	16-Nov-18	439	[Gantt Chart: Green bar from Q1 2017 to Q4 2018]																							
NB01510	NB43A-1 (0-61.5m) - Sheet piling & Excavation	18	24-May-17	14-Jun-17	19-May-16	08-Jun-16	-296	[Gantt Chart: Red bar from Q4 2015 to Q1 2016]																							
NB01520	NB43A-1 - Footing & Wall Structure	60	15-Jun-17	24-Aug-17	10-Jun-16	19-Aug-16	-296	[Gantt Chart: Red bar from Q4 2015 to Q1 2016]																							
NB01530	NB43A-1 - backfilling	34	25-Aug-17	04-Oct-17	20-Aug-16	29-Sep-16	-296	[Gantt Chart: Red bar from Q4 2015 to Q1 2016]																							
NB01540	NB43A-1 - NB production	45	25-Aug-17	08-Oct-17	28-Sep-18	11-Nov-18	399	[Gantt Chart: Green bar from Q1 2017 to Q4 2018]																							
NB01550	NB43A-1 - NB post & panel installation	5	09-Oct-17	13-Oct-17	12-Nov-18	16-Nov-18	325	[Gantt Chart: Green bar from Q1 2017 to Q4 2018]																							
NB01560	NB43A-2 (86.8-166.7m) - Sheet piling & Excavation	18	01-Dec-16	21-Dec-16	13-Nov-15	03-Dec-15	-307	[Gantt Chart: Red bar from Q4 2015 to Q1 2016]																							
NB01570	NB43A-2 - Footing & Wall Structure	60	22-Dec-16	13-Mar-17	04-Dec-15	24-Feb-16	-307	[Gantt Chart: Red bar from Q4 2015 to Q1 2016]																							
NB01580	NB43A-2 - backfilling	50	14-Mar-17	17-May-17	25-Feb-16	27-Apr-16	-307	[Gantt Chart: Red bar from Q4 2015 to Q1 2016]																							
NB01590	NB43A-2 - NB production	45	14-Mar-17	27-Apr-17	28-Sep-18	11-Nov-18	563	[Gantt Chart: Green bar from Q1 2017 to Q4 2018]																							
NB01600	NB43A-2 - NB post & panel installation	5	18-May-17	23-May-17	12-Nov-18	16-Nov-18	444	[Gantt Chart: Green bar from Q1 2017 to Q4 2018]																							
NB50 (Ch.6060-6130)-FH N/B Side																															
Noise Barrier Works																															
NB001140	NB50 -Pre-drilling	16	08-Dec-16	28-Dec-16	05-Dec-15	23-Dec-15	-294	[Gantt Chart: Red bar from Q4 2015 to Q1 2016]																							
NB001150	NB50 -piling (0.19m -48no)	72	12-Jan-17	18-Apr-17	24-Dec-15	01-Apr-16	-305	[Gantt Chart: Red bar from Q4 2015 to Q1 2016]																							

Remaining Level of Effort
 Actual Level of Effort
 Remaining Work
 Critical Remaining Work
 Milestone
 Crit. Milestone

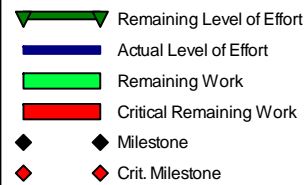
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21-Jan-14	IWP Rev.4		
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30-Jun-14	WP Rev. 1A		

Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	3	2014-2019																							
									2014				2015				2016				2017				2018				2019			
									Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
NB01730	NB50A-3 - backfilling	50	27-Jul-17	22-Sep-17	02-Aug-16	29-Sep-16	-287																									
NB01740	NB50A-3 - NB production	45	27-Jul-17	09-Sep-17	28-Sep-18	11-Nov-18	428																									
NB01750	NB50A-3 - NB post & panel installation	5	23-Sep-17	28-Sep-17	12-Nov-18	16-Nov-18	336																									
NB60 (Ch.6450-6920)-FH N/B Side																																
Noise Barrier Works																																
NB01760	NB60 (0-108m)(NB60/1-9, 72nos) Predrilling	36	01-Dec-16	14-Jan-17	02-Nov-15	12-Dec-15	-317																									
NB01770	NB60 (0-108m)(NB60/1-9, 72nos) Piling	108	16-Jan-17	06-Jun-17	14-Dec-15	05-May-16	-317																									
NB01780	NB60-1 (0-108m) - Sheet piling & Excavation	12	07-Jun-17	20-Jun-17	06-May-16	20-May-16	-317																									
NB01790	NB60-1 - Footing & Wall Structure	60	21-Jun-17	30-Aug-17	21-May-16	01-Aug-16	-317																									
NB01800	NB60-1 - backfilling	50	31-Aug-17	31-Oct-17	02-Aug-16	29-Sep-16	-317																									
NB01810	NB60-1 - NB production	45	31-Aug-17	14-Oct-17	28-Sep-18	11-Nov-18	393																									
NB01820	NB60-1 - NB post & panel installation	5	01-Nov-17	06-Nov-17	12-Nov-18	16-Nov-18	306																									
NB01830	NB60-2 (108-174m)(NB60/10-15, 44nos) Predrilling	22	01-Dec-16	28-Dec-16	14-Jan-16	17-Feb-16	-257																									
NB01840	NB60-2 (108-174m)(NB60/10-15, 44nos) Piling	66	29-Dec-16	24-Mar-17	18-Feb-16	10-May-16	-257																									
NB01850	NB60-2 - Sheet piling & Excavation	18	20-May-17	10-Jun-17	11-May-16	01-Jun-16	-299																									
NB01860	NB60-2 - Footing & Wall Structure	50	12-Jun-17	09-Aug-17	02-Jun-16	01-Aug-16	-299																									
NB01870	NB60-2 - backfilling	50	10-Aug-17	09-Oct-17	02-Aug-16	29-Sep-16	-299																									
NB01880	NB60-2 - NB production	45	10-Aug-17	23-Sep-17	28-Sep-18	11-Nov-18	414																									
NB01890	NB60-2 - NB post & panel installation	5	10-Oct-17	14-Oct-17	12-Nov-18	16-Nov-18	324																									
NB01900	NB60 ID3-2 (174-192m), 18nos Predrilling	10	01-Dec-16	12-Dec-16	23-Nov-15	03-Dec-15	-299																									
NB01910	NB60 ID3-2 (174-192m) 18nos Piling	27	13-Dec-16	16-Jan-17	04-Dec-15	07-Jan-16	-299																									
NB01920	NB60-ID3-2 ((174-192m) - Sheet piling & Excavation	18	17-Jan-17	14-Feb-17	08-Jan-16	28-Jan-16	-299																									
NB01930	NB60-ID3-2 - Footing & Wall Structure	50	15-Feb-17	18-Apr-17	29-Jan-16	09-Apr-16	-299																									
NB01940	NB60-ID3-2 - backfilling	25	19-Apr-17	19-May-17	11-Apr-16	10-May-16	-299																									
NB01950	NB60-ID3-2 - NB production	45	19-Apr-17	02-Jun-17	28-Sep-18	11-Nov-18	527																									
NB01960	NB60-ID3-2 - NB post & panel installation	5	03-Jun-17	08-Jun-17	12-Nov-18	16-Nov-18	431																									
NB01970	NB60 (192-300m)(NB60/17-25, 72nos) Predrilling	30	01-Dec-16	07-Jan-17	02-Nov-15	05-Dec-15	-317																									
NB01980	NB60 (192-300m)(NB60/17-25, 72nos) Piling- 3 rigs	108	09-Jan-17	29-May-17	07-Dec-15	27-Apr-16	-317																									
NB01990	NB60-3 (192-300m) - Sheet piling & Excavation	18	31-May-17	20-Jun-17	28-Apr-16	20-May-16	-317																									
NB02000	NB60-3 - Footing & Wall Structure	60	21-Jun-17	30-Aug-17	21-May-16	01-Aug-16	-317																									
NB02010	NB60-3 - backfilling	50	31-Aug-17	31-Oct-17	02-Aug-16	29-Sep-16	-317																									
NB02020	NB60-3 - NB production	45	31-Aug-17	14-Oct-17	28-Sep-18	11-Nov-18	393																									



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Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	Gantt Chart																											
								3		2014				2015				2016				2017				2018				2019					
								Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
THBF0250	THP6, THP7 - Pre-bored H pile (14 nos)	42	30-Oct-14	17-Dec-14	27-Jan-17	24-Mar-17	658																												
THBF0260	THP6, THP7 - Pile Test	28	18-Dec-14	14-Jan-15	31-Jul-17	27-Aug-17	956																												
THBF0270	THP6, THP7 - Pile cap, Pier and Pier Head	30	02-Jan-15	05-Feb-15	14-Aug-17	16-Sep-17	761																												
THBF0280	THAB2 - Predrilling	27	14-Jul-14	13-Aug-14	26-Jun-14	28-Jul-14	-14																												
THBF0290	THAB2 - Pre-bored H pile (18 nos)	54	25-Aug-14	29-Oct-14	29-Jul-14	30-Sep-14	-23																												
THBF0300	THAB2 - Pile Test	28	30-Oct-14	26-Nov-14	01-Oct-14	28-Oct-14	-29																												
THBF0310	THAB2 - pile cap & abutment wall	30	13-Nov-14	17-Dec-14	15-Oct-14	18-Nov-14	-25																												
THBF0320	THAB2 - Backfilling (~3m)	20	18-Dec-14	13-Jan-15	25-Aug-17	16-Sep-17	781																												
THBF0325	Steel Ramp ready for erection (THFB-TWSR-W side)	0		05-Feb-15		16-Sep-17	761																												
THBF0410	Erect Staircase (THFB-TWSR-W side)	30	16-Oct-14	19-Nov-14	08-Jan-18	10-Feb-18	945																												
THBF0420	Erect Ramp	60	06-Feb-15	28-Apr-15	18-Sep-17	29-Nov-17	761																												
THBF0620	Finishes Work	60	29-Apr-15	11-Jul-15	30-Nov-17	10-Feb-18	761																												
THBF0625	Bridge Structure complete (THFB-TWSR-W side)	0		11-Jul-15		10-Feb-18	761																												
Crossing Fanling Highway Section																																			
THBF0530	THP1 - Predrilling	12	01-Dec-16	14-Dec-16	07-Jun-17	20-Jun-17	144																												
THBF0540	THP1 - Pre-bored H pile (6 nos)	18	15-Dec-16	07-Jan-17	21-Jun-17	12-Jul-17	144																												
THBF0550	THP1 - Pile Test	28	07-Jan-17	04-Feb-17	13-Jul-17	09-Aug-17	186																												
THBF0560	THP1 - Pile cap, Pier and Pier Head	45	23-Jan-17	23-Mar-17	27-Jul-17	16-Sep-17	144																												
THBF0580	Erect THFB across fanling highway	90	24-Mar-17	15-Jul-17	18-Sep-17	06-Jan-18	144																												
THBF0590	Finishes Work	30	17-Jul-17	19-Aug-17	08-Jan-18	10-Feb-18	144																												
THBF0600	Bridge Structure complete (THFB-Cross fanling highway)	0		19-Aug-17		10-Feb-18	144																												
TWSR-East FL Highway S/B Side Section																																			
THBF0430	Precautionary work for MTRC I&P area	45	30-May-14	23-Jul-14	10-Jan-17	10-Mar-17	769																												
THBF0440	THAB1 - Predrilling	12	12-Sep-14	25-Sep-14	11-Mar-17	24-Mar-17	727																												
THBF0450	THAB1 - Pre-bored H pile (4 nos)	12	18-Dec-14	03-Jan-15	25-Mar-17	08-Apr-17	658																												
THBF0460	THAB1 - Pile Test	28	03-Jan-15	31-Jan-15	13-May-17	09-Jun-17	860																												
THBF0470	THAB1 - pile cap & abutment wall	30	19-Jan-15	02-Mar-15	27-May-17	03-Jul-17	682																												
THBF0480	THAB1 - Backfilling (~3m)	20	03-Mar-15	25-Mar-15	04-Jul-17	26-Jul-17	682																												
THBF0490	THP2 - Predrilling	12	26-Sep-14	11-Oct-14	25-Mar-17	08-Apr-17	727																												
THBF0500	THP2 - Pre-bored H pile (8 nos)	24	05-Jan-15	31-Jan-15	10-Apr-17	12-May-17	658																												
THBF0510	THP2 - Pile Test	28	31-Jan-15	28-Feb-15	13-Jul-17	09-Aug-17	893																												
THBF0520	THP2 - Pile cap, Pier and Pier Head	45	26-Mar-15	21-May-15	27-Jul-17	16-Sep-17	682																												

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								2013		2014				2015				2016				2017				2018				2019					
								Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
TWFB-DE1020	Demolish existing Ramp & Staircase	40	14-May-15	02-Jul-15	23-Nov-17	11-Jan-18	743	[Gantt Chart with green bars in Q2 2015]																											
TWFB-DE1030	Erect Temp platform for Bridge across TWSR-W demolition	60	14-May-15	25-Jul-15	16-Mar-17	01-Jun-17	538	[Gantt Chart with green bars in Q2 2015]																											
TWFB-DE1040	Demolish existing Bridge across TWSR-W	40	27-Jul-15	10-Sep-15	12-Jan-18	01-Mar-18	723	[Gantt Chart with green bars in Q3 2015]																											
TWFB-DE1050	Demolish existing Tai Wo footbridge (TWSR-W side) complete	0		10-Sep-15		01-Mar-18	723	10-Sep-15 ◆ Demolish existing Tai Wo footbridge (TWSR-W side) complete																											
Crossing Fanling Highway Section																																			
TWFB-DE1060	Erect Temp platform for bridge demolition	60	27-Jul-15	06-Oct-15	02-Jun-17	11-Aug-17	538	[Gantt Chart with green bars in Q2 2015]																											
TWFB-DE1070	Demolish existing Tai Wo Footbridge	45	07-Oct-15	28-Nov-15	12-Aug-17	04-Oct-17	538	[Gantt Chart with green bars in Q3 2015]																											
TWFB-DE1080	Removal of temporary platform	30	30-Nov-15	06-Jan-16	06-Oct-17	10-Nov-17	538	[Gantt Chart with green bars in Q4 2015]																											
TWFB-DE1090	Demolish remaining columns	60	07-Jan-16	29-Mar-16	11-Nov-17	23-Jan-18	538	[Gantt Chart with green bars in Q1 2016]																											
TWFB-DE1100	Backfilling & road work	30	30-Mar-16	05-May-16	24-Jan-18	01-Mar-18	538	[Gantt Chart with green bars in Q1 2016]																											
TWFB-DE1110	Demolish existing Tai Wo Footbridge complete (across FH)	0		05-May-16		01-Mar-18	538	05-May-16 ◆ Demolish existing Tai Wo Footbridge complete (across FH)																											
TWSR-West Construction																																			
Drainage & Road Works																																			
General																																			
HW.1025	Processing time allowance for Gazetting Express Way Changes FHW/NB at Zone 2	182	03-May-17	31-Oct-17	01-Apr-16	29-Sep-16	-397	[Gantt Chart with red bar in Q3 2016]																											
Ch 5880-6125																																			
RDZ20090	Z2 (CH5880-6930) : New TWSR - West Road works (2 lanes) Start	0	30-Oct-17			30-Sep-16	-315	[Gantt Chart with red bar in Q3 2016]																											
RDZ20150	Z2 : New TWSR-West Temp Road Works (1 lane) for TTA of FH N/B	20	01-Nov-17	23-Nov-17	30-Sep-16	25-Oct-16	-317	[Gantt Chart with red bar in Q3 2016]																											
RDZ20160	Z2 : New TWSR-West D&R Works (lane 1)	180	24-Nov-17	06-Jul-18	01-Sep-17	12-Apr-18	-69	[Gantt Chart with red bar in Q4 2017]																											
RDZ20170	Z2 : New TWSR-West D&R Works (lane 2)	180	07-Jul-18	11-Feb-19	13-Apr-18	16-Nov-18	-69	[Gantt Chart with red bar in Q1 2018]																											
Ch 6400-6740																																			
RDZ20140	Z2 (CH5880-6930) : New TWSR - West Road works (2 lanes) complete	0		11-Feb-19		16-Nov-18	-69	11-Feb-19 ◆ Z2 (CH5880-6930)																											
Noise Barrier Along Fanling Highway S/B																																			
NB46A (Ch.5880-5935)-FH S/B Side																																			
Noise Barrier Works																																			
NB02200	NB46A - Sheet piling & Excavation	21	06-Oct-14	29-Oct-14	17-Feb-17	13-Mar-17	690	[Gantt Chart with green bars in Q3 2014]																											
NB02210	NB46A - Footing & Wall Structure	60	30-Oct-14	10-Jan-15	14-Mar-17	29-May-17	690	[Gantt Chart with green bars in Q3 2014]																											
NB02220	NB46A- backfilling	50	12-Jan-15	18-Mar-15	31-May-17	28-Jul-17	690	[Gantt Chart with green bars in Q4 2014]																											
NB02230	NB46A - NB production	45	10-Jan-15	24-Feb-15	28-Sep-18	11-Nov-18	1356	[Gantt Chart with green bars in Q4 2014]																											
NB02240	NB46A - NB post & panel installation	5	19-Mar-15	24-Mar-15	12-Nov-18	16-Nov-18	1074	[Gantt Chart with green bars in Q4 2014]																											
NB51 (Ch.5935-6055)-FH S/B Side																																			
Noise Barrier Works																																			
NB02250	NB51 ID1-3 (0-25m), 18nos Predrilling	10	18-Jul-13	29-Jul-13	23-Nov-15	03-Dec-15	690	[Gantt Chart with green bars in Q3 2013]																											
NB02260	NB51 ID1-3 (0-25m) 18nos Piling- 1 rigs	27	30-Jul-13	29-Aug-13	04-Dec-15	07-Jan-16	690	[Gantt Chart with green bars in Q4 2013]																											
NB02270	NB51 ID1-3 (0-25m) - Sheet piling & Excavation	21	30-Aug-13	24-Sep-13	08-Jan-16	01-Feb-16	690	[Gantt Chart with green bars in Q4 2013]																											

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								2013		2014				2015				2016				2017				2018				2019					
								Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
NB02280	NB51 ID1-3 (0-25m) - Footing & Wall Structure	90	25-Sep-13	13-Jan-14	02-Feb-16	01-Jun-16	690	[Gantt bars for NB02280]																											
NB02290	NB51 ID1-3 (0-25m) - backfilling	50	14-Jan-14	21-Mar-14	02-Jun-16	01-Aug-16	690	[Gantt bars for NB02290]																											
NB02300	NB51 ID1-3 (0-25m) - NB production	45	14-Jan-14	27-Feb-14	28-Sep-18	11-Nov-18	1718	[Gantt bars for NB02300]																											
NB02310	NB51 ID1-3 (0-25m) - NB post & panel installation	5	22-Mar-14	27-Mar-14	12-Nov-18	16-Nov-18	1363	[Gantt bars for NB02310]																											
NB02320	NB51(25-118m) - Sheet piling & Excavation	18	22-Mar-14	12-Apr-14	02-Aug-16	22-Aug-16	690	[Gantt bars for NB02320]																											
NB02330	NB51(25-118m) - Footing & Wall Structure	90	14-Apr-14	04-Aug-14	23-Aug-16	08-Dec-16	690	[Gantt bars for NB02330]																											
NB02340	NB51(25-118m)- backfilling	50	05-Aug-14	04-Oct-14	09-Dec-16	16-Feb-17	690	[Gantt bars for NB02340]																											
NB02350	NB51(25-118m) - NB production	45	05-Aug-14	18-Sep-14	28-Sep-18	11-Nov-18	1515	[Gantt bars for NB02350]																											
NB02360	NB51(25-118m) - NB post & panel installation	5	06-Oct-14	10-Oct-14	12-Nov-18	16-Nov-18	1205	[Gantt bars for NB02360]																											
NB52 (Ch.6055-6125) -FH S/B Side (MTRC I&P Area)																																			
Noise Barrier Works																																			
NB02362	Coordinate with MTRC for Precautionary Measure	60	24-Feb-18	10-May-18	24-Feb-18	10-May-18	0	[Gantt bars for NB02362]																											
NB02364	Precautionary Measure installation	26	11-May-18	11-Jun-18	11-May-18	11-Jun-18	0	[Gantt bars for NB02364]																											
NB02370	NB52 - Sheet piling & Excavation	26	12-Jun-18	13-Jul-18	12-Jun-18	13-Jul-18	0	[Gantt bars for NB02370]																											
NB02380	NB52 - Footing & Wall Structure	50	14-Jul-18	10-Sep-18	14-Jul-18	10-Sep-18	0	[Gantt bars for NB02380]																											
NB02390	NB52- backfilling	50	11-Sep-18	10-Nov-18	11-Sep-18	10-Nov-18	0	[Gantt bars for NB02390]																											
NB02400	NB52 - NB production	45	11-Sep-18	25-Oct-18	28-Sep-18	11-Nov-18	17	[Gantt bars for NB02400]																											
NB02410	NB52 - NB post & panel installation	5	12-Nov-18	16-Nov-18	12-Nov-18	16-Nov-18	0	[Gantt bars for NB02410]																											
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)																																			
Noise Barrier Works																																			
NB02420	Coordinate with MTRC for Precautionary Measure	60	05-Sep-16	16-Nov-16	05-Sep-16	16-Nov-16	0	[Gantt bars for NB02420]																											
NB02430	Precautionary Measure installation	26	17-Nov-16	16-Dec-16	17-Nov-16	16-Dec-16	0	[Gantt bars for NB02430]																											
NB02440	NB53 (0-100m) - Sheet piling & Excavation	26	22-Dec-17	24-Jan-18	22-Dec-17	24-Jan-18	0	[Gantt bars for NB02440]																											
NB02450	NB53 (0-100m) - Footing & Wall Structure	60	25-Jan-18	11-Apr-18	25-Jan-18	11-Apr-18	0	[Gantt bars for NB02450]																											
NB02460	NB53 (0-100m)- backfilling	50	12-Apr-18	11-Jun-18	12-Apr-18	11-Jun-18	0	[Gantt bars for NB02460]																											
NB02470	NB53 (0-100m) - NB production	45	12-Apr-18	26-May-18	28-Sep-18	11-Nov-18	169	[Gantt bars for NB02470]																											
NB02480	NB53 (0-100m) - NB post & panel installation	5	28-May-18	01-Jun-18	12-Nov-18	16-Nov-18	139	[Gantt bars for NB02480]																											
NB02490	NB53 ID2-3 (100-125m), 18nos Predrilling	10	17-Dec-16	30-Dec-16	17-Dec-16	30-Dec-16	0	[Gantt bars for NB02490]																											
NB02500	NB53 ID2-3 (100-125m) 18nos Piling- 1 rigs	27	31-Dec-16	09-Feb-17	31-Dec-16	09-Feb-17	0	[Gantt bars for NB02500]																											
NB02510	NB53 ID2-3 (100-125m) - Sheet piling & Excavation	21	10-Feb-17	06-Mar-17	10-Feb-17	06-Mar-17	0	[Gantt bars for NB02510]																											
NB02520	NB53 ID2-3 (100-125m) - Footing & Wall Structure	60	07-Mar-17	22-May-17	07-Mar-17	22-May-17	0	[Gantt bars for NB02520]																											
NB02530	NB53 ID2-3 (100-125m) - backfilling	50	23-May-17	21-Jul-17	23-May-17	21-Jul-17	0	[Gantt bars for NB02530]																											
NB02540	NB53 ID2-3 (100-125m) - NB production	45	23-May-17	06-Jul-17	28-Sep-18	11-Nov-18	493	[Gantt bars for NB02540]																											

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Date	Revision	Ch...	Appro...
21-Jan-14	IWP Rev.4		
26-Feb-14	IWP Rev.5		
13-May-14	WP Rev.1		
30-Jun-14	WP Rev. 1A		

Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	Gantt Chart																											
								3		2014				2015				2016				2017				2018				2019					
								Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
NB02550	NB53 ID2-3 (100-125m) - NB post & panel installation	5	22-Jul-17	27-Jul-17	12-Nov-18	16-Nov-18	390																												
NB02560	NB53 (125-180m) - Sheet piling & Excavation	18	22-Jul-17	11-Aug-17	22-Jul-17	11-Aug-17	0																												
NB02570	NB53 (125-180m) - Footing & Wall Structure	60	12-Aug-17	23-Oct-17	12-Aug-17	23-Oct-17	0																												
NB02580	NB53 (125-180m)- backfilling	50	24-Oct-17	21-Dec-17	24-Oct-17	21-Dec-17	0																												
NB02590	NB53 (125-180m) - NB production	45	24-Oct-17	07-Dec-17	28-Sep-18	11-Nov-18	339																												
NB02600	NB53 (125-180m) - NB post & panel installation	5	08-Dec-17	13-Dec-17	12-Nov-18	16-Nov-18	274																												
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)																																			
Noise Barrier Works																																			
NB02610	Coordinate with MTRC for Precautionary Measure	60	19-May-16	29-Jul-16	19-May-16	29-Jul-16	0																												
NB02620	Precautionary Measure installation	26	30-Jul-16	29-Aug-16	30-Jul-16	29-Aug-16	0																												
NB02630	NB55 - Sheet piling & Excavation	18	30-Aug-16	20-Sep-16	30-Aug-16	20-Sep-16	0																												
NB02640	NB55 - Footing & Wall Structure	60	21-Sep-16	01-Dec-16	21-Sep-16	01-Dec-16	0																												
NB02650	NB55- backfilling	50	02-Dec-16	09-Feb-17	02-Dec-16	09-Feb-17	0																												
NB02660	NB55 - NB production	45	02-Dec-16	15-Jan-17	28-Sep-18	11-Nov-18	665																												
NB02670	NB55 - NB post & panel installation	5	16-Jan-17	20-Jan-17	12-Nov-18	16-Nov-18	536																												
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)																																			
Noise Barrier Works																																			
NB02680	Coordinate with MTRC for Precautionary Measure	60	02-Dec-15	22-Feb-16	02-Dec-15	22-Feb-16	0																												
NB02690	Precautionary Measure installation	26	23-Feb-16	23-Mar-16	23-Feb-16	23-Mar-16	0																												
NB02700	NB56 - Sheet piling & Excavation	18	24-Mar-16	18-Apr-16	24-Mar-16	18-Apr-16	0																												
NB02710	NB56 - Footing & Wall Structure	60	19-Apr-16	30-Jun-16	19-Apr-16	30-Jun-16	0																												
NB02720	NB56- backfilling	50	02-Jul-16	29-Aug-16	02-Jul-16	29-Aug-16	0																												
NB02730	NB56 - NB production	45	01-Jul-16	14-Aug-16	28-Sep-18	11-Nov-18	819																												
NB02740	NB56 - NB post & panel installation	5	15-Aug-16	19-Aug-16	12-Nov-18	16-Nov-18	662																												
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)																																			
Noise Barrier Works																																			
NB02750	Coordinate with MTRC for Precautionary Measure	60	24-Dec-14	14-Mar-15	24-Dec-14	14-Mar-15	0																												
NB02760	Precautionary Measure installation	26	16-Mar-15	17-Apr-15	16-Mar-15	17-Apr-15	0																												
NB02770	NB61 (0-50m) - Sheet piling & Excavation	18	26-Oct-15	14-Nov-15	26-Oct-15	14-Nov-15	0																												
NB02780	NB61 (0-50m) - Footing & Wall Structure	50	16-Nov-15	15-Jan-16	16-Nov-15	15-Jan-16	0																												
NB02790	NB61 (0-50m)- backfilling	50	16-Jan-16	23-Mar-16	16-Jan-16	23-Mar-16	0																												
NB02800	NB61 (0-50m) - NB production	45	16-Jan-16	29-Feb-16	28-Sep-18	11-Nov-18	986																												
NB02810	NB61 (0-50m) - NB post & panel installation	5	01-Mar-16	05-Mar-16	12-Nov-18	16-Nov-18	797																												

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								2013				2014				2015				2016				2017				2018				2019			
								Q3	Q4	Q1	Q2	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
NB02820	NB61 (50-160m) - Sheet piling & Excavation	26	18-Apr-15	19-May-15	18-Apr-15	19-May-15	0																												
NB02830	NB61 (50-160m) - Footing & Wall Structure	80	20-May-15	24-Aug-15	20-May-15	24-Aug-15	0																												
NB02840	NB61 (50-160m) - backfilling	50	25-Aug-15	24-Oct-15	25-Aug-15	24-Oct-15	0																												
NB02850	NB61 (50-160m) - NB production	45	25-Aug-15	08-Oct-15	28-Sep-18	11-Nov-18	1130																												
NB02860	NB61 (50-160m) - NB post & panel installation	5	09-Oct-15	14-Oct-15	12-Nov-18	16-Nov-18	908																												
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)																																			
Noise Barrier Works																																			
NB02870	Coordinate with MTRC for Precautionary Measure	60	18-Jul-13	26-Sep-13	18-Jul-13	26-Sep-13	0																												
NB02880	Precautionary Measure installation	26	27-Sep-13	29-Oct-13	27-Sep-13	29-Oct-13	0																												
NB02890	NB61A (0-50m) - Sheet piling & Excavation	18	17-Nov-14	06-Dec-14	17-Nov-14	06-Dec-14	0																												
NB02900	NB61A (0-50m) - Footing & Wall Structure	50	08-Dec-14	06-Feb-15	08-Dec-14	06-Feb-15	0																												
NB02910	NB61A (0-50m) - backfilling	50	07-Feb-15	17-Apr-15	07-Feb-15	17-Apr-15	0																												
NB02920	NB61A (0-50m) - NB production	45	07-Feb-15	23-Mar-15	28-Sep-18	11-Nov-18	1329																												
NB02930	NB61A (0-50m) - NB post & panel installation	5	24-Mar-15	28-Mar-15	12-Nov-18	16-Nov-18	1070																												
NB02940	NB61A D 2-3 (50-75m), 18nos Predrilling	18	30-Oct-13	19-Nov-13	29-Apr-14	21-May-14	140																												
NB02950	NB61A D 2-3 (50-75m) 18nos Piling- 1 rigs	18	20-Nov-13	10-Dec-13	22-May-14	12-Jun-14	140																												
NB02960	NB61A D 2-3 (50-75m) - Sheet piling & Excavation	10	13-Jun-14	24-Jun-14	13-Jun-14	24-Jun-14	0																												
NB02970	NB61A D 2-3 (50-75m) - Footing & Wall Structure	70	25-Jun-14	16-Sep-14	25-Jun-14	16-Sep-14	0																												
NB02980	NB61A D 2-3 (50-75m) - backfilling	50	17-Sep-14	15-Nov-14	17-Sep-14	15-Nov-14	0																												
NB02990	NB61A D 2-3 (50-75m) - NB production	45	17-Sep-14	31-Oct-14	28-Sep-18	11-Nov-18	1472																												
NB03000	NB61A D 2-3 (50-75m) - NB post & panel installation	5	17-Nov-14	21-Nov-14	12-Nov-18	16-Nov-18	1169																												
NB03010	NB61A (75-190m) - Sheet piling & Excavation	26	30-Oct-13	28-Nov-13	30-Oct-13	28-Nov-13	0																												
NB03020	NB61A (75-190m) - Footing & Wall Structure	70	29-Nov-13	03-Mar-14	29-Nov-13	03-Mar-14	0																												
NB03030	NB61A (75-190m) - backfilling	80	04-Mar-14	12-Jun-14	04-Mar-14	12-Jun-14	0																												
NB03040	NB61A (75-190m) - NB production	45	04-Mar-14	17-Apr-14	28-Sep-18	11-Nov-18	1669																												
NB03050	NB61A (75-190m) - NB post & panel installation	5	22-Apr-14	26-Apr-14	12-Nov-18	16-Nov-18	1341																												
Fanling Highway Construction																																			
Drainage & Road Works																																			
Ch 5880-6740																																			
RDZ41190	Z2 (CH5880-6740) : Fanling Highway Road works Start	0	24-Nov-17		26-Oct-16		-317																												
RDZ41200	Z2 (CH5880-6740) : Fanling Highway N/B - D&R works (lane 1)	56	24-Nov-17	31-Jan-18	26-Oct-16	31-Dec-16	-317																												
RDZ41210	Z2 (CH5880-6740) : Fanling Highway N/B - D&R works (lane 2)	56	27-Feb-18	08-May-18	26-Jan-17	10-Apr-17	-317																												
RDZ41220	Z2 (CH5880-6740) : Fanling Highway N/B - D&R works (lane 3)	56	02-Jun-18	08-Aug-18	10-May-17	15-Jul-17	-317																												

- Remaining Level of Effort
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								3		2014				2015				2016				2017				2018				2019					
								Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Z2.P2N.1100	Handover inspection	1	25-Mar-15	25-Mar-15	12-Apr-14	12-Apr-14	-277																												
Structure Works																																			
BW1000	Reprovided boundary wall	300	24-Nov-17	27-Nov-18	14-Nov-17	16-Nov-18	-9																												
TCSS Works																																			
AADS1																																			
TCSS1400	Slow lane footing - AAD S1 (NB43A)	0		23-May-17		11-Oct-18	414																												
TCSS1410	Fast lane footing - AADS1 (CH5880, N/B)	30	01-Sep-18	08-Oct-18	05-Sep-18	11-Oct-18	3																												
TCSS1660	TTA application & Approval - AADS1	90	22-Jun-18	08-Oct-18	26-Jun-18	11-Oct-18	3																												
TCSS1670	Sign Gantry Erection - AADS1	30	09-Oct-18	13-Nov-18	12-Oct-18	16-Nov-18	3																												
FVMS1																																			
TCSS1420	Slow lane footing - FVMS1 (NB50A)	0		31-Oct-17		11-Oct-18	281																												
TCSS1430	Predrilling (6no, 0.19m mini pile)	12	02-Oct-18	15-Oct-18	11-Jul-18	24-Jul-18	-69																												
TCSS1432	Piling (6nos, 0.19m mini pile)	18	31-Oct-18	20-Nov-18	25-Jul-18	14-Aug-18	-81																												
TCSS1434	Sheeting & excavation (4m)	12	21-Nov-18	04-Dec-18	15-Aug-18	28-Aug-18	-81																												
TCSS1436	Fast lane footing - FVMS1 (CH6280, N/B)	18	05-Dec-18	27-Dec-18	29-Aug-18	18-Sep-18	-81																												
TCSS1438	Back filling & reinstatement road work (2m)	18	28-Dec-18	18-Jan-19	19-Sep-18	11-Oct-18	-81																												
TCSS1680	TTA application & Approval - FVMS1	90	02-Oct-18	18-Jan-19	26-Jun-18	11-Oct-18	-81																												
TCSS1690	Sign Gantry Erection - FVMS1	30	19-Jan-19	25-Feb-19	12-Oct-18	16-Nov-18	-81																												
ADS1																																			
TCSS1440	Slow lane footing - ADS1 (NB50A)	0		22-Sep-17		11-Oct-18	311																												
TCSS1930	Predrilling (6no, 0.19m mini pile)	12	15-Sep-18	29-Sep-18	19-Jun-18	03-Jul-18	-75																												
TCSS1940	Piling (6nos, 0.19m mini pile)	18	09-Oct-18	30-Oct-18	04-Jul-18	24-Jul-18	-81																												
TCSS1950	Sheeting & excavation (4m)	12	31-Oct-18	13-Nov-18	15-Aug-18	28-Aug-18	-63																												
TCSS1960	Fast lane footing - ADS1 (CH6400, N/B)	18	14-Nov-18	04-Dec-18	29-Aug-18	18-Sep-18	-63																												
TCSS1970	Back filling & reinstatement road work (2m)	18	05-Dec-18	27-Dec-18	19-Sep-18	11-Oct-18	-63																												
TCSS1980	TTA application & Approval - ADS1	90	08-Sep-18	27-Dec-18	26-Jun-18	11-Oct-18	-63																												
TCSS1990	Sign Gantry Erection - ADS1	30	28-Dec-18	01-Feb-19	12-Oct-18	16-Nov-18	-63																												
FADS1																																			
TCSS1460	Slow lane footing - FADS1 (NB60)	0		27-Oct-17		11-Oct-18	283																												
TCSS2000	Predrilling (6no, 0.19m mini pile)	12	09-Aug-18	22-Aug-18	05-May-18	18-May-18	-79																												
TCSS2010	Piling (6nos, 0.19m mini pile)	18	23-Aug-18	12-Sep-18	19-May-18	09-Jun-18	-79																												
TCSS2020	Sheeting & excavation (4m)	12	13-Sep-18	27-Sep-18	15-Aug-18	28-Aug-18	-25																												
TCSS2030	Fast lane footing - FADS1 (CH6830, N/B)	18	28-Sep-18	20-Oct-18	29-Aug-18	18-Sep-18	-25																												

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								2014				2015				2016				2017				2018				2019			
								Q3	Q4	Q1	Q2	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Underground Utility Works																															
UUZ20220	Utility cable laying by Utility companies (Along NB64, 60m)	30	23-Apr-15	29-May-15	02-Aug-14	05-Sep-14	-210																								
Noise Barrier Along Fanling Highway N/B																															
NB60 (Ch.6450-6920)-FH N/B Side																															
Noise Barrier Works																															
NB02030	NB60 (300-408m)(NB60/26-34, 72nos) Predrilling	26	22-Dec-16	24-Jan-17	25-Nov-15	24-Dec-15	-315																								
NB02040	NB60 (300-408m)(NB60/26-34, 72nos) Piling	108	25-Jan-17	15-Jun-17	28-Dec-15	18-May-16	-315																								
NB02050	NB60-4 (300-408m) - Sheet piling & Excavation	12	16-Jun-17	29-Jun-17	19-May-16	01-Jun-16	-315																								
NB02060	NB60-4 - Footing & Wall Structure	50	30-Jun-17	28-Aug-17	02-Jun-16	01-Aug-16	-315																								
NB02070	NB60-4 - backfilling	50	29-Aug-17	27-Oct-17	02-Aug-16	29-Sep-16	-315																								
NB02080	NB60-4 - NB production	45	29-Aug-17	12-Oct-17	27-Dec-16	09-Feb-17	-245																								
NB02082	NB60-4 - NB post & panel installation	5	13-Oct-17	18-Oct-17	10-Feb-17	15-Feb-17	-200																								
NB02090	NB60 (408-468m)(NB60/35-39, 40nos) Predrilling	18	01-Dec-16	21-Dec-16	02-Nov-15	21-Nov-15	-317																								
NB02100	NB60 (408-468m)(NB60/35-39, 40nos) Piling	30	22-Dec-16	06-Feb-17	23-Nov-15	29-Dec-15	-317																								
NB02110	NB60-5 (408-468m) - Sheet piling & Excavation	12	07-Feb-17	20-Feb-17	30-Dec-15	13-Jan-16	-317																								
NB02120	NB60-5 - Footing & Wall Structure	30	21-Feb-17	27-Mar-17	14-Jan-16	26-Feb-16	-317																								
NB02130	NB60-5 - backfilling	28	28-Mar-17	05-May-17	22-Jun-16	25-Jul-16	-225																								
NB02140	NB60-5 - NB production	40	28-Mar-17	06-May-17	27-Feb-16	06-Apr-16	-395																								
NB02142	NB60-5 - NB post & panel installation	5	08-May-17	12-May-17	07-Apr-16	12-Apr-16	-316																								
NB66 (Ch.6920-6930)-FH N/B Side																															
Noise Barrier Works																															
NB02150	NB66 - Sheet piling & Excavation	18	06-May-17	26-May-17	26-Jul-16	15-Aug-16	-225																								
NB02160	NB66 - Footing & Wall Structure	21	27-May-17	21-Jun-17	16-Aug-16	08-Sep-16	-225																								
NB02170	NB66 - backfilling	17	22-Jun-17	12-Jul-17	09-Sep-16	29-Sep-16	-225																								
NB02180	NB66 - NB production	45	22-Jun-17	05-Aug-17	27-Dec-16	09-Feb-17	-177																								
NB02190	NB66 - NB post & panel installation	5	07-Aug-17	11-Aug-17	10-Feb-17	15-Feb-17	-144																								
Bridge Construction																															
Kau Lung Hang Vehicular Bridge																															
General																															
Z2.KLH.1060	Submission of method statement to Engineer	67	18-Jul-13	05-Oct-13	10-Dec-13	10-Mar-14	121																								
Z2.KLH.1070	Consent from Engineer	28	07-Oct-13	08-Nov-13	11-Mar-14	12-Apr-14	121																								
KLH Bridge - West Ramp																															
Z2.KLH.0900	WestAbutment- Pre-drilling work	20	24-Sep-14	18-Oct-14	02-Jul-14	24-Jul-14	-71																								
Z2.KLH.0910	WestAbutment- pre-bored H-pile piling works (13nos)	39	20-Oct-14	03-Dec-14	25-Jul-14	08-Sep-14	-71																								

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Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
Z2.KLH.1002	WestAbutment- Pile cap & Structural Wall	90	04-Dec-14	30-Mar-15	10-Sep-14	27-Dec-14	-71																												
Z2.KLH.1140	West Ramp - Backfilling (5m-Dx112m-L)	140	31-Mar-15	17-Sep-15	29-Dec-14	25-Jun-15	-71																												
Z2.KLH.1230	West Ramp - Road Slab	90	18-Sep-15	07-Jan-16	20-Oct-15	05-Feb-16	25																												
KLH Bridge - Deck 1																																			
Z2.KLH.1008	Pier VBP1- Pre-drilling work	18	20-Oct-14	08-Nov-14	08-Sep-14	29-Sep-14	-33																												
Z2.KLH.1010	Pier VBP1- Pre-bored H-pile piling works (6 Nos.)	18	04-Dec-14	24-Dec-14	30-Sep-14	22-Oct-14	-54																												
Z2.KLH.1012	Pier VBP1- Pile testing	28	27-Dec-14	29-Jan-15	24-Jan-15	05-Mar-15	23																												
Z2.KLH.1014	Pier VBP1- Pile caps, pier and pier head construction	90	31-Mar-15	21-Jul-15	06-Mar-15	25-Jun-15	-21																												
Z2.KLH.1016	Pier VBP2- Pre-drilling work	12	10-Nov-14	22-Nov-14	06-Oct-14	18-Oct-14	-30																												
Z2.KLH.1018	Pier VBP2- Pre-bored H-pile piling works (8 Nos.)	24	27-Dec-14	24-Jan-15	23-Oct-14	19-Nov-14	-54																												
Z2.KLH.1020	Pier VBP2- Pile testing	28	26-Jan-15	06-Mar-15	04-Jun-15	08-Jul-15	99																												
Z2.KLH.1022	Pier VBP2- Pile caps, pier and pier head construction	90	22-Jul-15	06-Nov-15	09-Jul-15	24-Oct-15	-11																												
Z2.KLH.1030	Pier VBP3 - Pre-drilling work	15	01-Dec-16	17-Dec-16	02-Nov-15	18-Nov-15	-317																												
Z2.KLH.1040	Pier VBP3 -Pre-bored H-pile piling works (9 Nos.)	27	19-Dec-16	21-Jan-17	19-Nov-15	19-Dec-15	-317																												
Z2.KLH.1045	Pier VBP3 Pile test	28	23-Jan-17	03-Mar-17	21-Dec-15	25-Jan-16	-317																												
Z2.KLH.1050	Pier VBP3 Pile caps, pier and pier head construction	52	23-Jan-17	31-Mar-17	21-Dec-15	02-Mar-16	-317																												
Z2.KLH.1120	Deck 1 - Bridge deck construction (WestAbutment to VBP1)	100	18-Sep-15	19-Jan-16	26-Jun-15	24-Oct-15	-71																												
Z2.KLH.1125	Deck 1 - Bridge deck construction (VBP1 to VBP2)	100	20-Jan-16	31-May-16	26-Oct-15	02-Mar-16	-71																												
Z2.KLH.1130	Deck 1 - Bridge deck construction (VBP2 to VBP3)	38	01-Apr-17	22-May-17	03-Mar-16	20-Apr-16	-317																												
Z2.KLH.1650	Deck 1 & West Ramp bridge deck complete	0		22-May-17		20-Apr-16	-317																												
KLH Bridge - Ramp R1																																			
Z2.KLH.1430	Ramp R1 - Pre-drilling work (R1P1-P3)	27	24-Nov-14	24-Dec-14	20-Oct-14	19-Nov-14	-30																												
Z2.KLH.1440	Ramp R1 - Pre-bored H-pile piling works (R1P1-P3) (9 Nos.)	27	26-Jan-15	05-Mar-15	20-Nov-14	20-Dec-14	-54																												
Z2.KLH.1450	Ramp R1 - Pile caps and pier construction (R1P1)	40	06-Mar-15	24-Apr-15	22-Dec-14	09-Feb-15	-54																												
Z2.KLH.1660	Ramp R1 - Pile caps and pier construction (R1P2)	40	25-Apr-15	12-Jun-15	10-Feb-15	08-Apr-15	-54																												
Z2.KLH.1670	Ramp R1 - Pile caps and pier construction (R1P3)	40	13-Jun-15	31-Jul-15	09-Apr-15	27-May-15	-54																												
Z2.KLH.1680	Ramp R1 - Ramp construction	90	01-Aug-15	17-Nov-15	28-May-15	11-Sep-15	-54																												
Z2.KLH.1690	Ramp R1 - Abutment R1 - Predrilling	24	18-Nov-15	15-Dec-15	12-Sep-15	12-Oct-15	-54																												
Z2.KLH.1700	Ramp R1 - Abutment R1 - Pre-bored H-pile (8 nos)	24	16-Dec-15	15-Jan-16	13-Oct-15	10-Nov-15	-54																												
Z2.KLH.1710	Ramp R1 - Abutment R1 - base slab & wall	45	16-Jan-16	17-Mar-16	11-Nov-15	05-Jan-16	-54																												
Z2.KLH.1720	Ramp R1 - Abutment R1 - Top slab	30	18-Mar-16	26-Apr-16	06-Jan-16	18-Feb-16	-54																												
Z2.KLH.1730	Ramp R1 - Abutment R1 - Stair case	90	27-Apr-16	13-Aug-16	19-Feb-16	10-Jun-16	-54																												

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Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	Gantt Chart																											
								3		2014				2015				2016				2017				2018				2019					
								Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Z2.KLH.1740	Ramp R1 complete	0		13-Aug-16		10-Jun-16	-54	13-Aug-16: Milestone Ramp R1 complete																											
KLH Bridge - Staircase S1																																			
Z2.KLH.1460	S1 - Staircase steel work, handrail Shop drawing submission & approval	90	15-Sep-16	13-Dec-16	17-Aug-15	14-Nov-15	-395	Gantt bar from Q3 2015 to Q4 2015																											
Z2.KLH.1462	S1 - Steel work ordering	120	14-Dec-16	12-Apr-17	15-Nov-15	13-Mar-16	-395	Gantt bar from Q4 2015 to Q2 2016																											
Z2.KLH.1464	S1 - Steel work prefabrication	30	13-Apr-17	12-May-17	14-Mar-16	12-Apr-16	-395	Gantt bar from Q3 2015 to Q4 2015																											
Z2.KLH.1466	S1 - Steel frame available on site	0		12-May-17		12-Apr-16	-316	12-May-17: Milestone S1 - Steel frame available on site																											
Z2.KLH.1470	NB60-5 post installation completed	0		12-May-17		12-Apr-16	-316	12-May-17: Milestone NB60-5 post installation completed																											
Z2.KLH.1480	S1- Deck Steel Frame erection	12	13-May-17	26-May-17	13-Apr-16	26-Apr-16	-316	Gantt bar from Q4 2015 to Q1 2016																											
Z2.KLH.1490	S1- RC deck slab	12	27-May-17	10-Jun-17	27-Apr-16	11-May-16	-316	Gantt bar from Q4 2015 to Q1 2016																											
Z2.KLH.1500	S1 - Roof steel frame installation	12	12-Jun-17	24-Jun-17	12-May-16	26-May-16	-316	Gantt bar from Q4 2015 to Q1 2016																											
Z2.KLH.1750	S1 - Corrugated steel roof	6	26-Jun-17	03-Jul-17	27-May-16	02-Jun-16	-316	Gantt bar from Q4 2015 to Q1 2016																											
Z2.KLH.1760	S1 - Handrail	6	04-Jul-17	10-Jul-17	03-Jun-16	10-Jun-16	-316	Gantt bar from Q4 2015 to Q1 2016																											
Z2.KLH.1770	S1 - Lighting & finishes works	6	04-Jul-17	10-Jul-17	03-Jun-16	10-Jun-16	-316	Gantt bar from Q4 2015 to Q1 2016																											
KLH Bridge - Deck 3																																			
Z2.KLH.1325	Construct Temp Road - For diversion of existing TWR east	20	24-Sep-14	18-Oct-14	16-Jan-14	17-Feb-14	-198	Gantt bar from Q4 2013 to Q1 2014																											
Z2.KLH.1330	VBP6 - Diversion of TWSR east to temporary diversion work	1	20-Oct-14	20-Oct-14	18-Feb-14	18-Feb-14	-198	Gantt bar from Q4 2013 to Q1 2014																											
Z2.KLH.1340	VBP6 - Pre-drilling work	5	21-Oct-14	25-Oct-14	19-Feb-14	24-Feb-14	-198	Gantt bar from Q4 2013 to Q1 2014																											
Z2.KLH.1350	VBP6 - Pre-bored H-pile piling works (12 Nos.)	60	27-Oct-14	07-Jan-15	25-Feb-14	12-May-14	-198	Gantt bar from Q4 2013 to Q1 2014																											
Z2.KLH.1360	VBP6 - Pile cap, pier construction	90	08-Jan-15	05-May-15	22-Sep-14	09-Jan-15	-88	Gantt bar from Q1 2014 to Q2 2014																											
Z2.KLH.1370	Deck - East abutment to VBP8	90	09-Oct-15	26-Jan-16	02-Feb-15	30-May-15	-198	Gantt bar from Q2 2014 to Q3 2014																											
Z2.KLH.1380	Deck - VBP6 to VBP7	90	27-Jan-16	26-May-16	01-Jun-15	15-Sep-15	-198	Gantt bar from Q3 2014 to Q4 2014																											
Z2.KLH.1400	Deck - VBP7 to VBP8	90	27-May-16	10-Sep-16	16-Nov-15	11-Mar-16	-149	Gantt bar from Q4 2014 to Q1 2015																											
Z2.KLH.1780	East Abutment - Pre-drilling work	20	27-Oct-14	18-Nov-14	14-Apr-14	12-May-14	-158	Gantt bar from Q4 2013 to Q1 2014																											
Z2.KLH.1790	East Abutment - Pre-bored H-pile piling works (13 Nos.)	39	08-Jan-15	02-Mar-15	13-May-14	27-Jun-14	-198	Gantt bar from Q1 2014 to Q2 2014																											
Z2.KLH.1800	East Abutment - Pile testing	30	03-Mar-15	09-Apr-15	28-Jun-14	02-Aug-14	-198	Gantt bar from Q2 2014 to Q3 2014																											
Z2.KLH.1810	East Abutment - Pile caps, abutment wall construction	75	10-Apr-15	10-Jul-15	04-Aug-14	01-Nov-14	-198	Gantt bar from Q3 2014 to Q4 2014																											
Z2.KLH.1820	VBP7 - Pre-drilling work	12	01-Dec-14	13-Dec-14	04-Dec-14	17-Dec-14	3	Gantt bar from Q4 2014 to Q1 2015																											
Z2.KLH.1830	VBP7 - Pre-bored H-pile piling works (7 Nos.)	21	24-Mar-15	20-Apr-15	18-Dec-14	14-Jan-15	-72	Gantt bar from Q1 2015 to Q2 2015																											
Z2.KLH.1840	VBP7 - Pile testing	30	21-Apr-15	27-May-15	15-Jan-15	18-Feb-15	-72	Gantt bar from Q2 2015 to Q3 2015																											
Z2.KLH.1850	VBP7 - Pile caps, pier and pier head construction	75	09-Oct-15	08-Jan-16	27-Feb-15	30-May-15	-183	Gantt bar from Q3 2015 to Q4 2015																											
Z2.KLH.1860	VBP8 - Pre-drilling work	10	19-Nov-14	29-Nov-14	23-Aug-14	03-Sep-14	-72	Gantt bar from Q4 2014 to Q1 2015																											
Z2.KLH.1870	VBP8 - Pre-bored H-pile piling works (6 Nos.)	18	03-Mar-15	23-Mar-15	04-Sep-14	25-Sep-14	-141	Gantt bar from Q1 2015 to Q2 2015																											

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								2014		2015				2016				2017				2018				2019									
								Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
General																																			
RDZ20130	Z2: S3: Connection of realigned TWSR-W at interface Zone 2 & 3	60	30-Oct-17	10-Jan-18	19-Oct-16	29-Dec-16	-301	[Gantt bar from Q4 2017 to Q1 2018]																											
Noise Barrier Along Fanling Highway S/B																																			
NB62 (Ch.6745-6910)-FH S/B Side (MTRC I&P Area)																																			
Noise Barrier Works																																			
NB03060	Coordinate with MTRC for Precautionary Measure	60	26-Sep-17	07-Dec-17	15-Sep-16	26-Nov-16	-301	[Gantt bar from Q4 2017 to Q1 2018]																											
NB03070	Precautionary Measure installation	26	08-Dec-17	10-Jan-18	28-Nov-16	29-Dec-16	-301	[Gantt bar from Q4 2017 to Q1 2018]																											
NB03080	NB62 (0-80m) - Sheet piling & Excavation	18	11-Jan-18	31-Jan-18	30-Dec-16	20-Jan-17	-301	[Gantt bar from Q4 2017 to Q1 2018]																											
NB03090	NB62 (0-80m) - Footing & Wall Structure	60	01-Feb-18	18-Apr-18	21-Jan-17	10-Apr-17	-301	[Gantt bar from Q4 2017 to Q1 2018]																											
NB03100	NB62 (0-80m) - backfilling	50	19-Apr-18	19-Jun-18	11-Apr-17	14-Jun-17	-301	[Gantt bar from Q4 2017 to Q1 2018]																											
NB03110	NB62 (0-80m) - NB production	45	19-Apr-18	02-Jun-18	29-Jul-17	11-Sep-17	-264	[Gantt bar from Q4 2017 to Q1 2018]																											
NB03120	NB62 (0-80m) - NB post & panel installation	5	20-Jun-18	25-Jun-18	12-Sep-17	16-Sep-17	-226	[Gantt bar from Q4 2017 to Q1 2018]																											
NB03130	NB62 (80-110m) Under bridge - Sheet piling & Excavation	12	20-Jun-18	04-Jul-18	15-Jun-17	28-Jun-17	-301	[Gantt bar from Q4 2017 to Q1 2018]																											
NB03140	NB62 (80-110m) Under bridge - Footing & Wall Structure	25	05-Jul-18	02-Aug-18	29-Jun-17	28-Jul-17	-301	[Gantt bar from Q4 2017 to Q1 2018]																											
NB03150	NB62 (80-110m) Under bridge - backfilling	14	03-Aug-18	18-Aug-18	26-Aug-17	11-Sep-17	-277	[Gantt bar from Q4 2017 to Q1 2018]																											
NB03160	NB62 (80-110m) Under bridge - NB production	45	03-Aug-18	16-Sep-18	29-Jul-17	11-Sep-17	-370	[Gantt bar from Q4 2017 to Q1 2018]																											
NB03170	NB62 (80-110m) Under bridge - NB post & panel installation	5	17-Sep-18	21-Sep-18	12-Sep-17	16-Sep-17	-301	[Gantt bar from Q4 2017 to Q1 2018]																											
NB03180	NB62 (110-170m) - Sheet piling & Excavation	18	09-Apr-18	28-Apr-18	07-Apr-17	02-May-17	-295	[Gantt bar from Q4 2017 to Q1 2018]																											
NB03190	NB62 (110-170m) - Footing & Wall Structure	60	30-Apr-18	12-Jul-18	04-May-17	14-Jul-17	-295	[Gantt bar from Q4 2017 to Q1 2018]																											
NB03200	NB62 (110-170m) - backfilling	50	13-Jul-18	08-Sep-18	15-Jul-17	11-Sep-17	-295	[Gantt bar from Q4 2017 to Q1 2018]																											
NB03210	NB62 (110-170m) - NB production	45	13-Jul-18	26-Aug-18	29-Jul-17	11-Sep-17	-349	[Gantt bar from Q4 2017 to Q1 2018]																											
NB03220	NB62 (110-170m) - NB post & panel installation	5	10-Sep-18	14-Sep-18	12-Sep-17	16-Sep-17	-295	[Gantt bar from Q4 2017 to Q1 2018]																											
NB70 (Ch.6910-6930)-FH S/B Side																																			
Noise Barrier Works																																			
NB03230	Coordinate with MTRC for Precautionary Measure	60	26-Sep-17	07-Dec-17	23-Sep-16	03-Dec-16	-295	[Gantt bar from Q4 2017 to Q1 2018]																											
NB03240	Precautionary Measure installation	26	08-Dec-17	10-Jan-18	05-Dec-16	06-Jan-17	-295	[Gantt bar from Q4 2017 to Q1 2018]																											
NB03250	NB70 - Sheet piling & Excavation	18	11-Jan-18	31-Jan-18	07-Jan-17	27-Jan-17	-295	[Gantt bar from Q4 2017 to Q1 2018]																											
NB03260	NB70 - Footing & Wall Structure	26	01-Feb-18	05-Mar-18	06-Feb-17	07-Mar-17	-295	[Gantt bar from Q4 2017 to Q1 2018]																											
NB03270	NB70- backfilling	25	06-Mar-18	07-Apr-18	08-Mar-17	06-Apr-17	-295	[Gantt bar from Q4 2017 to Q1 2018]																											
NB03280	NB70 - NB production	45	06-Mar-18	19-Apr-18	29-Jul-17	11-Sep-17	-220	[Gantt bar from Q4 2017 to Q1 2018]																											
NB03290	NB70- NB post & panel installation	5	20-Apr-18	25-Apr-18	12-Sep-17	16-Sep-17	-177	[Gantt bar from Q4 2017 to Q1 2018]																											
Fanling Highway Construction																																			
Drainage & Road Works																																			
Ch 6740-6930																																			

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								2013 Q3	2013 Q4	2014 Q1	2014 Q2	2014 Q3	2014 Q4	2015 Q1	2015 Q2	2015 Q3	2015 Q4	2016 Q1	2016 Q2	2016 Q3	2016 Q4	2017 Q1	2017 Q2	2017 Q3	2017 Q4	2018 Q1	2018 Q2	2018 Q3	2018 Q4	2019 Q1	2019 Q2	2019 Q3	2019 Q4		
HKY1025	Site Clearance (TWSR-E side)(SA346)	30	27-Nov-13	03-Jan-14	27-Dec-13	10-Feb-14	24																												
HKY1030	Structure steel Shop drawing submission (HKYB)	60	18-Jul-13	26-Sep-13	29-Jan-14	22-Apr-14	161																												
HKY1040	Structure steel Shop drawing approval (HKYB)	30	09-Sep-13	16-Oct-13	01-Apr-14	12-May-14	161																												
HKY1050	Structure steel procurement (HKYB)	150	17-Oct-13	15-Mar-14	13-May-14	09-Oct-14	208																												
HKY1060	Steel Staircase & Ramp prefabrication (HKYB-TWSR-W side)	30	17-Mar-14	24-Apr-14	13-Dec-14	20-Jan-15	222																												
HKY1070	Steel Staircase & Ramp available on site (HKYB-TWSR-W side)	0	25-Apr-14		21-Jan-15		222																												
HKY1080	Steel Staircase & Ramp prefabrication (HKYB-TWSR-E side)	40	17-Mar-14	08-May-14	10-Oct-14	25-Nov-14	167																												
HKY1090	Steel Staircase & Ramp available on site (HKYB-TWSR-E side)	0	09-May-14		26-Nov-14		167																												
HKY1100	Steel Bridge prefabrication (HKYB)	50	17-Mar-14	20-May-14	09-Feb-15	18-Apr-15	268																												
HKY1110	Steel Bridge available on site (HKYB)	0	21-May-14		20-Apr-15		268																												
HKY1180	Ho Ka Yuen Footbridge Complete	0		24-Sep-15		18-May-15	-108																												
HKY1190	Existing Ho Ka Yuen Footbridge Demolished	0		02-Nov-15		24-Jun-15	-108																												
TWSR-West/ FL Highway N/B Side Section																																			
HKY1140	HKYP6 - Predrilling	24	24-Sep-13	23-Oct-13	16-Sep-13	16-Oct-13	-6																												
HKY1150	HKYP6 - Pre-bored H pile (8 nos)	24	24-Oct-13	20-Nov-13	17-Oct-13	13-Nov-13	-6																												
HKY1160	HKYP6 - Pile Test	28	21-Nov-13	18-Dec-13	06-Dec-14	02-Jan-15	380																												
HKY1170	HKYP6 - Pile cap, Pier and Pier Head	45	05-Dec-13	29-Jan-14	20-Dec-14	13-Feb-15	304																												
HKY1172	HKYP1 - Predrilling	12	24-Oct-13	06-Nov-13	03-Dec-14	16-Dec-14	325																												
HKY1174	HKYP1 - Pre-bored H pile (4 nos)	12	21-Nov-13	04-Dec-13	03-Jan-15	16-Jan-15	325																												
HKY1176	HKYP1 - Pile Test	28	05-Dec-13	01-Jan-14	31-Jan-15	27-Feb-15	422																												
HKY1178	HKYP1 - Pile cap, Pier and Pier Head	45	30-Jan-14	01-Apr-14	14-Feb-15	18-Apr-15	304																												
HKY1220	HKYAB3 - Predrilling	12	24-Oct-13	06-Nov-13	31-Oct-13	13-Nov-13	6																												
HKY1230	HKYAB3 - Pre-bored H pile (4 nos)	12	21-Nov-13	04-Dec-13	14-Nov-13	27-Nov-13	-6																												
HKY1240	HKYAB3 - Pile Test	28	05-Dec-13	01-Jan-14	28-Nov-13	25-Dec-13	-7																												
HKY1250	HKYAB3 - pile cap & abutment wall	30	19-Dec-13	25-Jan-14	12-Dec-13	18-Jan-14	-6																												
HKY1260	HKYAB3 - Backfilling (~4m)	27	27-Jan-14	07-Mar-14	20-Jan-14	28-Feb-14	-6																												
HKY1270	Steel Staircase ready for erection (THFB-TWSR-W side)	0		07-Mar-14		11-Apr-15	319																												
HKY1273	Erect Staircase (HKY-TWSR-W side)	30	25-Apr-14	31-May-14	13-Apr-15	18-May-15	282																												
HKY1275	Existing HKY bridge structure removed (TWSR-W)	0		16-Aug-14		09-Aug-14	-6																												
HKY1280	HKYP7 - Predrilling	18	16-Sep-14	08-Oct-14	18-Oct-14	07-Nov-14	26																												
HKY1290	HKYP7 - Pre-bored H pile (6 nos)	18	13-Nov-14	03-Dec-14	08-Nov-14	28-Nov-14	-4																												
HKY1300	HKYP7 - Pile Test	28	04-Dec-14	31-Dec-14	29-Nov-14	26-Dec-14	-5																												

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								2014				2015				2016				2017				2018				2019			
								Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
HKY1660	Removal of portion of new HKY bridge structure above TWSR-E	35	18-Jul-15	27-Aug-15	06-Mar-15	18-Apr-15	-108																								
HKY1670	Demolish existing HKY footbridge (TWSR-E side)	30	25-Sep-15	02-Nov-15	19-May-15	24-Jun-15	-108																								
TWSR-East Construction																															
NB74 (Ch.7930-7980)-FH S/B Side																															
Noise Barrier Works																															
NB4005	NB74 - Footing & Wall Structure	70	22-Dec-14	24-Mar-15	05-Sep-15	28-Nov-15	204																								
NB4010	NB74 - backfilling	30	25-Mar-15	02-May-15	30-Nov-15	06-Jan-16	204																								
NB4020	NB74 - NB production	45	25-Mar-15	08-May-15	28-Sep-18	11-Nov-18	1283																								
NB4030	NB74 - NB post & panel installation	5	09-May-15	14-May-15	12-Nov-18	16-Nov-18	1034																								
Drainage & Road Works																															
TWSR-East FL Highway S/B Side Section																															
TWSRE1000	Road work for New TWSR-East	150	03-Mar-15	01-Sep-15	22-Jun-15	17-Dec-15	89																								
Other Works																															
Slope Works																															
TWSR-East FL Highway S/B Side Section																															
S1000	Slope S51-Fill -3m	40	03-Nov-15	18-Dec-15	28-Apr-18	15-Jun-18	726																								
ZONE 4 (Ch. 7925 to 8700)																															
Noise Barrier Along TWSR-West and Laying New Utilities																															
NB75 (Ch.7930-8090)-FH N/B Side																															
Noise Barrier Works																															
NB4040	NB75 -Pre-drilling (Ch7930-7990)	60	03-Nov-15	14-Jan-16	18-Aug-15	29-Oct-15	-63																								
NB4050	NB75 - piling (NB75/01-05, 0.19m -40no)	60	15-Jan-16	07-Apr-16	30-Oct-15	11-Jan-16	-63																								
NB4060	NB75 - Footing & Wall Structure (Ch7930-7990)	60	08-Apr-16	20-Jun-16	12-Jan-16	02-Apr-16	-63																								
NB4070	NB75 - backfilling (Ch7930-7990)	50	21-Jun-16	18-Aug-16	05-Apr-16	03-Jun-16	-63																								
NB4080	NB75 - NB production (Ch7930-7990)	45	21-Jun-16	04-Aug-16	13-Aug-16	26-Sep-16	53																								
NB4090	NB75 - NB post & panel installation (Ch7930-7990)	5	19-Aug-16	24-Aug-16	27-Sep-16	03-Oct-16	32																								
NB4100	NB75 -Pre-drilling (Ch7990-8000)-(HKY-P1)	24	07-Nov-13	04-Dec-13	17-Dec-14	16-Jan-15	325																								
NB4110	NB75 - piling (NB75/06, 0.19m -8no)-with HKY-P1	24	05-Dec-13	04-Jan-14	17-Jan-15	13-Feb-15	325																								
NB4120	NB75 - Footing & Wall Structure (Ch7990-8000)-(HKY-P1)	30	02-Apr-14	13-May-14	16-Jul-16	19-Aug-16	667																								
NB4130	NB75 - backfilling (Ch7990-8000)-(HKY-P1)	25	14-May-14	12-Jun-14	02-Sep-16	03-Oct-16	678																								
NB4140	NB75 - NB production (Ch7990-8000)-(HKY-P1)	45	14-May-14	27-Jun-14	20-Aug-16	03-Oct-16	829																								
NB4150	NB75 - NB post & panel installation (Ch7990-8000)-(HKY-P1)	5	25-Aug-16	30-Aug-16	04-Oct-16	08-Oct-16	32																								
NB4160	NB75 -Pre-drilling (Ch8000-8050)	48	15-Jan-16	19-Mar-16	27-Nov-15	25-Jan-16	-39																								
NB4170	NB75 - piling (NB75/07-10, 0.19m -32no)	48	08-Apr-16	04-Jun-16	26-Jan-16	02-Apr-16	-51																								
NB4180	NB75 - Footing & Wall Structure (Ch8000-8050)	50	21-Jun-16	18-Aug-16	05-Apr-16	03-Jun-16	-63																								

Remaining Level of Effort
 Actual Level of Effort
 Remaining Work
 Critical Remaining Work
 Milestone
 Crit. Milestone

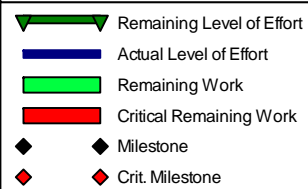
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21-Jan-14	IWP Rev.4		
26-Feb-14	IWP Rev.5		
13-May-14	WP Rev.1		
30-Jun-14	WP Rev. 1A		

Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	Gantt Chart																											
								2014				2015				2016				2017				2018				2019							
								Q3	Q4	Q1	Q2	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
NB4190	NB75 - backfilling (Ch8000-8050)	50	19-Aug-16	19-Oct-16	04-Jun-16	03-Aug-16	-63	[Gantt bars for NB75 activities]																											
NB4200	NB75 - NB production (Ch8000-8050)	45	19-Aug-16	02-Oct-16	20-Aug-16	03-Oct-16	1	[Gantt bars for NB75 activities]																											
NB4210	NB75 - NB post & panel installation (Ch8000-8050)	5	20-Oct-16	25-Oct-16	04-Oct-16	08-Oct-16	-13	[Gantt bars for NB75 activities]																											
NB4220	NB75 -Pre-drilling (Ch8050-8090)	42	21-Mar-16	13-May-16	20-Feb-16	13-Apr-16	-25	[Gantt bars for NB75 activities]																											
NB4230	NB75 - piling (NB75/11-14, 0.19m -28no)	42	06-Jun-16	26-Jul-16	14-Apr-16	03-Jun-16	-43	[Gantt bars for NB75 activities]																											
NB4240	NB75 - Footing & Wall Structure (Ch8050-8090)	50	19-Aug-16	19-Oct-16	04-Jun-16	03-Aug-16	-63	[Gantt bars for NB75 activities]																											
NB4250	NB75 - backfilling (Ch8050-8090)	50	20-Oct-16	16-Dec-16	04-Aug-16	03-Oct-16	-63	[Gantt bars for NB75 activities]																											
NB4260	NB75 - NB production (Ch8050-8090)	45	20-Oct-16	03-Dec-16	20-Aug-16	03-Oct-16	-61	[Gantt bars for NB75 activities]																											
NB4270	NB75 - NB post & panel installation (Ch8050-8090)	5	17-Dec-16	22-Dec-16	04-Oct-16	08-Oct-16	-63	[Gantt bars for NB75 activities]																											
NB4280	NB75 complete	0		22-Dec-16		08-Oct-16	-63	[Milestone: 22-Dec-16 NB75 complete]																											
NB77 (Ch.8090-8450)-FH N/B Side																																			
Noise Barrier Works																																			
NB4285	TTA for FH N/B (Stage 6) start	0	10-Sep-15			22-May-15	-92	[Milestone: TTA for FH N/B (Stage 6) start]																											
NB4290	NB77 -Pre-drilling (Ch8090-8190)	24	17-Sep-15	16-Oct-15	22-May-15	19-Jun-15	-98	[Gantt bars for NB77 activities]																											
NB4300	NB77 - piling (NB77/01-08, 0.19m -64no)	96	17-Oct-15	19-Feb-16	22-Jun-15	14-Oct-15	-98	[Gantt bars for NB77 activities]																											
NB4310	NB77 - Footing & Wall Structure (Ch8090-8190)	90	20-Feb-16	11-Jun-16	15-Oct-15	01-Feb-16	-98	[Gantt bars for NB77 activities]																											
NB4320	NB77 - backfilling (Ch8090-8190)	90	12-Apr-16	29-Jul-16	02-Dec-15	31-Mar-16	-98	[Gantt bars for NB77 activities]																											
NB4330	NB77 - NB production (Ch8090-8190)	45	11-Jun-16	26-Jul-16	16-Sep-18	30-Oct-18	826	[Gantt bars for NB77 activities]																											
NB4340	NB77 - NB post & panel installation (Ch8090-8190)	15	30-Jul-16	16-Aug-16	31-Oct-18	16-Nov-18	665	[Gantt bars for NB77 activities]																											
NB4350	NB77 -Pre-drilling (Ch8190-8290)	108	17-Sep-15	27-Jan-16	18-May-15	23-Sep-15	-102	[Gantt bars for NB77 activities]																											
NB4360	NB77 - piling (NB77/09-17, 0.19m -72no)	108	23-Nov-15	13-Apr-16	23-Jul-15	28-Nov-15	-102	[Gantt bars for NB77 activities]																											
NB4370	NB77 - Footing & Wall Structure (Ch8190-8290)	90	14-Apr-16	01-Aug-16	30-Nov-15	29-Mar-16	-102	[Gantt bars for NB77 activities]																											
NB4380	NB77 - backfilling (Ch8190-8290)	75	02-Jun-16	30-Aug-16	29-Feb-16	01-Jun-16	-75	[Gantt bars for NB77 activities]																											
NB4390	NB77 - NB production (Ch8190-8290)	45	02-Aug-16	15-Sep-16	16-Sep-18	30-Oct-18	775	[Gantt bars for NB77 activities]																											
NB4400	NB77 - NB post & panel installation (Ch8190-8290)	15	17-Sep-16	05-Oct-16	31-Oct-18	16-Nov-18	624	[Gantt bars for NB77 activities]																											
NB4410	NB77 -Pre-drilling (Ch8290-8390)	96	17-Oct-15	19-Feb-16	22-Aug-15	15-Dec-15	-46	[Gantt bars for NB77 activities]																											
NB4420	NB77 - piling (NB77/18-25, 0.19m -64no)	96	20-Feb-16	18-Jun-16	20-Oct-15	22-Feb-16	-94	[Gantt bars for NB77 activities]																											
NB4430	NB77 - Footing & Wall Structure (Ch8290-8390)	90	20-Jun-16	05-Oct-16	23-Feb-16	14-Jun-16	-94	[Gantt bars for NB77 activities]																											
NB4440	NB77 - backfilling (Ch8290-8390)	90	30-Jul-16	15-Nov-16	01-Apr-16	20-Jul-16	-98	[Gantt bars for NB77 activities]																											
NB4450	NB77 - NB production (Ch8290-8390)	45	06-Oct-16	19-Nov-16	16-Sep-18	30-Oct-18	710	[Gantt bars for NB77 activities]																											
NB4460	NB77 - NB post & panel installation (Ch8290-8390)	15	21-Nov-16	07-Dec-16	31-Oct-18	16-Nov-18	571	[Gantt bars for NB77 activities]																											
NB4470	NB77 -Pre-drilling (Ch8390-8450)	51	28-Jan-16	09-Apr-16	15-Dec-15	24-Feb-16	-35	[Gantt bars for NB77 activities]																											



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21-Jan-14	IWP Rev.4		
26-Feb-14	IWP Rev.5		
13-May-14	WP Rev.1		
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Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	3																							
								2014				2015				2016				2017				2018				2019			
								Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
NB4480	NB77 - piling (NB77/26-30, 0.19m -34no)	51	14-Apr-16	15-Jun-16	18-Jan-16	29-Mar-16	-63																								
NB4490	NB77 - Footing & Wall Structure (Ch8390-8450)	52	02-Aug-16	03-Oct-16	30-Mar-16	01-Jun-16	-102																								
NB4500	NB77 - backfilling (Ch8390-8450)	40	04-Oct-16	19-Nov-16	02-Jun-16	20-Jul-16	-102																								
NB4510	NB77 - NB production (Ch8390-8450)	45	04-Oct-16	17-Nov-16	28-Sep-18	11-Nov-18	724																								
NB4520	NB77 - NB post & panel installation (Ch8390-8450)	5	21-Nov-16	25-Nov-16	12-Nov-18	16-Nov-18	581																								
NB4530	NB77 complete	0		07-Dec-16		16-Nov-18	571																								
NB4570	NB77 backfilling complete	0		19-Nov-16		08-Oct-16	-35																								
Underground Utility Works																															
DN450 DI Watermain "A" (Ch 1989-2529)																															
DI0100	DN450 DI watermain laying (0-50m)	40	23-Dec-16	18-Feb-17	11-Oct-16	25-Nov-16	-63																								
DI0110	DN450 DI watermain laying (50-100m)	40	20-Feb-17	07-Apr-17	26-Nov-16	14-Jan-17	-63																								
DI0120	DN450 DI watermain laying (100-150m)	40	08-Apr-17	31-May-17	16-Jan-17	10-Mar-17	-63																								
DI0130	DN450 DI watermain laying (150-200m)	40	01-Jun-17	18-Jul-17	11-Mar-17	02-May-17	-63																								
DI0140	DN450 DI watermain laying (200-250m)	40	19-Jul-17	02-Sep-17	04-May-17	20-Jun-17	-63																								
DI0150	DN450 DI watermain laying (250-300m)	40	04-Sep-17	21-Oct-17	21-Jun-17	07-Aug-17	-63																								
DI0160	DN450 DI watermain laying (300-350m)	40	23-Oct-17	08-Dec-17	08-Aug-17	22-Sep-17	-63																								
DI0170	DN450 DI watermain laying (350-400m)	40	09-Dec-17	27-Jan-18	23-Sep-17	11-Nov-17	-63																								
DI0180	DN450 DI watermain laying (400-450m)	40	29-Jan-18	17-Mar-18	13-Nov-17	30-Dec-17	-63																								
DI0190	DN450 DI watermain laying (450-500m)	40	19-Mar-18	09-May-18	02-Jan-18	19-Feb-18	-63																								
DI0200	DN450 DI watermain laying (500-540m)	40	10-May-18	27-Jun-18	20-Feb-18	11-Apr-18	-63																								
Bridge Construction																															
New Wo Hop Shek Pedstrian & Cycle Bridge																															
General																															
WHS1000	Site Clearance (Main bridge area SA344)	30	15-Jan-14	27-Feb-14	28-Nov-16	04-Jan-17	837																								
WHS1010	Site Clearance & Temp Platform erection (SA340)	45	05-May-14	27-Jun-14	28-Jul-15	17-Sep-15	362																								
WHS1020	Structure steel Shop drawing submission (WHSB)	60	18-Jul-13	26-Sep-13	21-Aug-15	02-Nov-15	613																								
WHS1030	Structure steel Shop drawing approval (WHSB)	30	09-Sep-13	16-Oct-13	15-Oct-15	19-Nov-15	613																								
WHS1040	Structure steel procurement (WHSB)	150	17-Oct-13	15-Mar-14	20-Nov-15	17-Apr-16	764																								
WHS1050	Steel Ramp prefabrication (WHSB)	50	17-Mar-14	20-May-14	18-Apr-16	17-Jun-16	608																								
WHS1060	Steel Ramp available on site (WHSB)	0	21-May-14		18-Jun-16		608																								
WHS1070	Steel Staircase prefabrication (WHSB)	40	17-Mar-14	08-May-14	10-Nov-20	28-Dec-20	1962																								
WHS1080	Steel Staircase available on site (WHSB)	0	09-May-14		28-Dec-20		1962																								
WHS1105	W77A & W 77B & backfilling work complete	0		20-Aug-15		03-Nov-17	645																								

- Remaining Level of Effort
- Actual Level of Effort
- Remaining Work
- Critical Remaining Work
- Milestone
- Crit. Milestone

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26-Feb-14	IWP Rev.5		
13-May-14	WP Rev.1		
30-Jun-14	WP Rev. 1A		

Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	Gantt Chart																											
								2014				2015				2016				2017				2018				2019							
								Q3	Q4	Q1	Q2	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
WHS1430	Bridge Structure complete (WHS-TWSR-W side)	0		10-Aug-16		03-Nov-17	362	10-Aug-16 ◆ Bridge Structure complete (WHS-TWSR-W side)																											
WHS1892	WHSP3 - Predrilling	18	23-Sep-14	15-Oct-14	15-Dec-15	07-Jan-16	362	[Gantt bar: 23-Sep-14 to 15-Oct-14]																											
WHS1894	WHSP3 - Pre-bored H pile (6 nos)	18	16-Oct-14	05-Nov-14	08-Jan-16	28-Jan-16	362	[Gantt bar: 16-Oct-14 to 05-Nov-14]																											
WHS1896	WHSP3 - Pile Test	28	06-Nov-14	03-Dec-14	29-Jan-16	25-Feb-16	449	[Gantt bar: 06-Nov-14 to 03-Dec-14]																											
WHS1898	WHSP3 - Pile cap, Pier and Pier Head	30	04-Dec-14	10-Jan-15	26-Feb-16	05-Apr-16	354	[Gantt bar: 04-Dec-14 to 10-Jan-15]																											
WHS1900	WHSP4 - Predrilling	18	16-Oct-14	05-Nov-14	01-Feb-16	01-Mar-16	382	[Gantt bar: 16-Oct-14 to 05-Nov-14]																											
WHS1910	WHSP4 - Pre-bored H pile (6 nos)	18	06-Nov-14	26-Nov-14	02-Mar-16	22-Mar-16	382	[Gantt bar: 06-Nov-14 to 26-Nov-14]																											
WHS1920	WHSP4 - Pile Test	28	27-Nov-14	24-Dec-14	23-Mar-16	19-Apr-16	482	[Gantt bar: 27-Nov-14 to 24-Dec-14]																											
WHS1930	WHSP4 - Pile cap, Pier and Pier Head	30	12-Jan-15	14-Feb-15	06-Apr-16	11-May-16	354	[Gantt bar: 12-Jan-15 to 14-Feb-15]																											
WHS1940	WHSP5 - Predrilling	18	06-Nov-14	26-Nov-14	12-Mar-16	06-Apr-16	391	[Gantt bar: 06-Nov-14 to 26-Nov-14]																											
WHS1950	WHSP5 - Pre-bored H pile (6 nos)	18	27-Nov-14	17-Dec-14	07-Apr-16	27-Apr-16	391	[Gantt bar: 27-Nov-14 to 17-Dec-14]																											
WHS1960	WHSP5 - Pile Test	28	18-Dec-14	14-Jan-15	28-Apr-16	25-May-16	497	[Gantt bar: 18-Dec-14 to 14-Jan-15]																											
WHS1970	WHSP5 - Pile cap, Pier and Pier Head	30	16-Feb-15	30-Mar-15	12-May-16	17-Jun-16	354	[Gantt bar: 16-Feb-15 to 30-Mar-15]																											
WHS1980	1st half Steel Ramp ready for erection (WHS-TWSR-W side)	0		30-Mar-15		17-Jun-16	354	30-Mar-15 ◆ 1st half Steel Ramp ready for erection (WHS-TWSR-W side)																											
WHS1990	Erect 1st half ramp	60	31-Mar-15	13-Jun-15	18-Jun-16	27-Aug-16	354	[Gantt bar: 31-Mar-15 to 13-Jun-15]																											
WHS2000	Erect temp pedestrian ramp besides 1st half ramp	45	15-Jun-15	07-Aug-15	29-Aug-16	22-Oct-16	354	[Gantt bar: 15-Jun-15 to 07-Aug-15]																											
WHS2010	Erect temp access between existing bridge to 1st half ramp	45	15-Jun-15	07-Aug-15	29-Aug-16	22-Oct-16	354	[Gantt bar: 15-Jun-15 to 07-Aug-15]																											
WHS2020	Diverse pedestrian from existing ramp to new ramp	0		07-Aug-15		22-Oct-16	354	07-Aug-15 ◆ Diverse pedestrian from existing ramp to new ramp																											
Crossing Fanling Highway Section																																			
WHS1440	WHSP1 - Predrilling	18	28-Feb-14	20-Mar-14	18-Jan-17	15-Feb-17	848	[Gantt bar: 28-Feb-14 to 20-Mar-14]																											
WHS1450	WHSP1 - Pre-bored H pile (6 nos)	18	21-Mar-14	11-Apr-14	16-Feb-17	08-Mar-17	848	[Gantt bar: 21-Mar-14 to 11-Apr-14]																											
WHS1460	WHSP1 - Pile Test	28	12-Apr-14	09-May-14	09-Mar-17	05-Apr-17	1062	[Gantt bar: 12-Apr-14 to 09-May-14]																											
WHS1470	WHSP1 - Pile cap, Pier and Pier Head	52	10-May-14	11-Jul-14	06-Apr-17	12-Jun-17	852	[Gantt bar: 10-May-14 to 11-Jul-14]																											
WHS1480	Erect WHS bridge Structure across fanling highway	90	26-Mar-15	16-Jul-15	13-Jun-17	26-Sep-17	645	[Gantt bar: 26-Mar-15 to 16-Jul-15]																											
WHS1490	Finishes Work	30	17-Jul-15	20-Aug-15	27-Sep-17	03-Nov-17	645	[Gantt bar: 17-Jul-15 to 20-Aug-15]																											
WHS1500	Bridge Structure complete (WHSB-Cross fanling highway)	0		20-Aug-15		03-Nov-17	645	20-Aug-15 ◆ Bridge Structure complete (WHSB-Cross fanling highway)																											
TWSR-East FL Highway S/B Side Section																																			
WHS2042	Tree felling	30	05-May-14	10-Jun-14	18-Jun-15	24-Jul-15	330	[Gantt bar: 05-May-14 to 10-Jun-14]																											
WHS2045	Temp footbridge construction for pedestrian diversion	40	11-Jun-14	28-Jul-14	25-Jul-15	09-Sep-15	330	[Gantt bar: 11-Jun-14 to 28-Jul-14]																											
WHS2050	North Abu ment Wall (AW1) - Predrilling	12	29-Jul-14	11-Aug-14	10-Sep-15	23-Sep-15	330	[Gantt bar: 29-Jul-14 to 11-Aug-14]																											
WHS2060	North Abu ment Wall (AW1) - Pre-bored H pile (4 nos)	16	12-Aug-14	29-Aug-14	24-Sep-15	14-Oct-15	330	[Gantt bar: 12-Aug-14 to 29-Aug-14]																											
WHS2070	North Abu ment Wall (AW1) - Pile Test	28	30-Aug-14	26-Sep-14	18-Oct-16	14-Nov-16	780	[Gantt bar: 30-Aug-14 to 26-Sep-14]																											

- Remaining Level of Effort
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- Crit. Milestone

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30-Jun-14	WP Rev. 1A		

Table with columns: Activity ID, Activity Name, Original Duration, Start, Finish, Late Start, Late Finish, Total Float, and quarterly Gantt charts for 2014-2019. Activities include demolition of bridge, construction of TWSR-West and Slip Road Y, and underground utility works.

Legend for Gantt chart symbols: Remaining Level of Effort (green), Actual Level of Effort (blue), Remaining Work (orange), Critical Remaining Work (red), Milestone (black diamond), Crit. Milestone (red diamond).

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Revision table with columns: Date, Revision, Ch..., Appro... Includes revisions for IWP Rev.4, IWP Rev.5, WP Rev.1, and WP Rev. 1A.

Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	2013-2019 Quarterly Schedule																											
								2013				2014				2015				2016				2017				2018				2019			
								Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
DN1020	DN600 & DN900 watermain laying (Ch8050-8100)(SA341) (near Z4 TTA-Stage 3)	60	27-Mar-15	10-Jun-15	21-Nov-14	02-Feb-15	-98																												
DN1030	DN600 & DN900 watermain laying (Ch7925-8050)(SA346)	120	22-Dec-14	27-May-15	10-Sep-14	02-Feb-15	-86																												
DN1040	DN600 & DN900 watermain laying(Ch8370-8650)(SA340) (near Z4 TTA-Stage 4)	120	17-Feb-16	14-Jul-16	02-Jun-17	23-Oct-17	376																												
DN1050	DN600 & DN900 watermain laying complete	0		14-Jul-16		28-Dec-20	1322																												

Fanling Highway Construction

Drainage & Road Works

TWSR-East FL Highway S/B Side Section

HKY1412	Construct temp road for TWSR-East & FH S/B diversion	21	03-Mar-15	26-Mar-15	16-Oct-14	08-Nov-14	-108																							
RDZ41002	TTA approval period	90	18-Jul-13	15-Oct-13	20-Jul-13	17-Oct-13	2																							
RDZ41004	Site Clearance & Tree Felling	60	16-Oct-13	24-Dec-13	18-Oct-13	28-Dec-13	2																							
RDZ41005	Construct FH S/B Lane 1,2 (Ch8250-8370)(SA340) (Z4 TTA-Stage 1)	100	05-May-14	01-Sep-14	30-Dec-13	12-May-14	-94																							
RDZ41015	Construct FH S/B Lane 1,2 (Ch8100-8250)(SA342) (Z4 TTA-Stage 2)	100	02-Sep-14	02-Jan-15	13-May-14	08-Sep-14	-94																							
RDZ41025	Construct FH S/B Lane 1,2 @ existing TWSR-E junction (Ch8050-8100)(SA341) (Z4 TTA-Stage 3)	60	27-Mar-15	10-Jun-15	21-Nov-14	02-Feb-15	-98																							
RDZ41030	Realign Temp Road from TWSR-E to Petrol station (Z4 TTA-Stage 3)	45	03-Jan-15	04-Mar-15	10-Sep-14	03-Nov-14	-94																							
RDZ41040	Construct FH S/B Lane 1,2 (Ch8000-8050)(SA340)(Z4 TTA-Stage 3)	75	05-Mar-15	05-Jun-15	04-Nov-14	02-Feb-15	-94																							
RDZ41050	Traffic Diversion for FH S/B road construction(Z4 TTA-Stage 4)	6	24-Jun-15	30-Jun-15	03-Feb-15	09-Feb-15	-108																							
RDZ41086	Construct FH S/B Lane 1 & 2 (Ch7925-8000)(SA346) (after HKY bridge demolition)	150	03-Nov-15	13-May-16	19-Oct-16	27-Apr-17	279																							
RDZ41090	Remove FH central barrier	60	02-Jul-15	09-Sep-15	17-Feb-15	09-May-15	-102																							
RDZ41100	TTA for FH N/B Lane 1, 2, 3 construction (Ch7925-8600)(SA340) (Z4 TTA-Stage 6)	6	10-Sep-15	16-Sep-15	11-May-15	16-May-15	-102																							
RDZ41110	Construct FH N/B Lane 1 (Ch7925-8600)	70	27-Aug-16	19-Nov-16	26-Apr-16	20-Jul-16	-102																							
RDZ41112	Construct FH N/B Lane 2 (Ch7925-8600)	70	11-Dec-15	14-Mar-16	26-Apr-16	20-Jul-16	102																							
RDZ41114	Construct FH N/B Lane 3 (Ch7925-8600)	70	17-Sep-15	10-Dec-15	21-Jan-16	25-Apr-16	102																							
RDZ41120	TTA for FH N/B lane 4, S/B Lane 3 & 4 (Z4 TTA-Stage 7)	6	21-Nov-16	26-Nov-16	21-Jul-16	27-Jul-16	-102																							
RDZ41130	Construct FH N/B lane 4	65	28-Nov-16	22-Feb-17	28-Jul-16	14-Oct-16	-102																							
RDZ41132	Construct FH S/B Lane 3	65	23-Feb-17	16-May-17	15-Oct-16	31-Dec-16	-102																							
RDZ41134	Construct FHS/B Lane 4	65	17-May-17	02-Aug-17	03-Jan-17	27-Mar-17	-102																							
RDZ41140	Fanling Highway road work complete (except final pavement and central diverder)	0		18-Sep-17		19-May-17	-102																							
RDZ41150	Central Divider construction	150	19-Sep-17	21-Mar-18	20-May-17	16-Nov-17	-102																							
RDZ41160	Final pavement & final road marking	120	22-Mar-18	17-Aug-18	17-Nov-17	16-Apr-18	-102																							
RDZ41170	Complete Slip road V and associated slope work	175	18-Aug-18	19-Mar-19	18-Apr-18	15-Nov-18	-101																							
RDZ41290	Construct FH N/B Lane 1 (Ch7925-8600) (besides NB75)	40	03-Aug-17	18-Sep-17	28-Mar-17	19-May-17	-102																							

Other Works

Retaining Wall W77A



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WP Rev 1A with new possession date notified on 21-Jun-14



Date	Revision	Ch...	Appro...
21-Jan-14	IWP Rev.4		
26-Feb-14	IWP Rev.5		
13-May-14	WP Rev.1		
30-Jun-14	WP Rev. 1A		

Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	3																											
								2014				2015				2016				2017				2018				2019							
								Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
TCSS0120	Prepare Shop Drawing-TCSS	45	31-Mar-14	28-May-14	26-Oct-16	16-Dec-16	753				█																								
TCSS0130	Shop Drawing Comment & Approval	21	29-May-14	18-Jun-14	17-Dec-16	06-Jan-17	933																												
TCSS0140	Revised & Re-submission TCSS shop Drawing	18	19-Jun-14	10-Jul-14	07-Jan-17	27-Jan-17	751																												
TCSS0150	Confirm Shop drawing & ready for material ordering & factory production	0		10-Jul-14		27-Jan-17	751																												
TCSS0160	Raw material procurement	180	11-Jul-14	06-Jan-15	29-Jan-17	27-Jul-17	933																												
TCSS0170	Sign Gantry Factory production - AAD S1	30	07-Jan-15	10-Feb-15	28-Jul-17	31-Aug-17	743																												
TCSS0180	Sign Gantry Factory production - FVMS1	30	11-Feb-15	25-Mar-15	01-Sep-17	07-Oct-17	743																												
TCSS0190	Sign Gantry Factory production - ADS 1	30	26-Mar-15	04-May-15	09-Oct-17	13-Nov-17	743																												
TCSS0200	Sign Gantry Factory production - FAD S1	30	05-May-15	09-Jun-15	14-Nov-17	18-Dec-17	743																												
TCSS0210	Sign Gantry Factory production - G55	30	10-Jun-15	16-Jul-15	19-Dec-17	25-Jan-18	743																												
TCSS0220	Sign Gantry Factory production - G54	30	17-Jul-15	20-Aug-15	26-Jan-18	03-Mar-18	743																												
TCSS0230	Sign Gantry Factory production - G34 (Z4)	30	21-Aug-15	24-Sep-15	05-Mar-18	12-Apr-18	743																												
TCSS0240	Sign Gantry Factory production - G35 (Z4)	30	25-Sep-15	02-Nov-15	13-Apr-18	18-May-18	743																												
TCSS0250	Sign Gantry Factory production - G36 (Z4)	30	03-Nov-15	07-Dec-15	19-May-18	25-Jun-18	743																												
TCSS0260	Sign Gantry Factory production - DS50 (Z4)	30	08-Dec-15	14-Jan-16	26-Jun-18	31-Jul-18	743																												
TCSS0270	Sign Gantry Factory production - FAD S8 (Z4)	30	15-Jan-16	27-Feb-16	01-Aug-18	04-Sep-18	743																												
TCSS0280	Sign Gantry Factory production - FVMS2 (Z4)	30	29-Feb-16	07-Apr-16	05-Sep-18	11-Oct-18	743																												
G34																																			
TCSS1520	Slow lane footing - G34 (NB75)	0		18-Aug-16		11-Oct-18	633																												
TCSS1530	Fast lane footing - G34 (CH7990, N/B)	30	28-Nov-16	04-Jan-17	05-Sep-18	11-Oct-18	520																												
TCSS1780	TTA application & Approval - G34 (Z4)	90	15-Sep-16	04-Jan-17	26-Jun-18	11-Oct-18	520																												
TCSS1790	Sign Gantry Erection - G34 (Z4)	30	05-Jan-17	16-Feb-17	12-Oct-18	16-Nov-18	520																												
G35																																			
TCSS1540	Slow lane footing - G35 (NB77)	0		19-Nov-16		11-Oct-18	556																												
TCSS1550	Slip road island footing - G35 (CH8410, N/B)	30	17-Sep-15	24-Oct-15	05-Sep-18	11-Oct-18	870																												
TCSS1560	Fast lane footing - G35 (CH8410, N/B)	5	28-Nov-16	02-Dec-16	06-Oct-18	11-Oct-18	545																												
TCSS1800	TTA application & Approval - G35 (Z4)	90	17-Aug-16	02-Dec-16	26-Jun-18	11-Oct-18	545																												
TCSS1810	Sign Gantry Erection - G35 (Z4)	30	03-Dec-16	10-Jan-17	12-Oct-18	16-Nov-18	545																												
G36																																			
TCSS1570	latest date for Slow lane footing available - G36 (NB by other)	0		02-Nov-15		18-May-18	743																												
TCSS1580	Fast lane footing - G36 (CH8610, N/B)	30	15-Jan-14	27-Feb-14	05-Sep-18	11-Oct-18	1357																												
TCSS1820	TTA application & Approval - G36 (Z4)	90	21-Aug-15	07-Dec-15	26-Jun-18	11-Oct-18	833																												

	Remaining Level of Effort
	Actual Level of Effort
	Remaining Work
	Critical Remaining Work
	Milestone
	Crit. Milestone

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21-Jan-14	IWP Rev.4		
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13-May-14	WP Rev.1		
30-Jun-14	WP Rev. 1A		

Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	2014-2019																											
								2014				2015				2016				2017				2018				2019							
								Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
TCSS1830	Sign Gantry Erection - G36 (Z4)	30	08-Dec-15	14-Jan-16	12-Oct-18	16-Nov-18	833																												
DS50																																			
TCSS1590	Slow lane footing - DS50 (NB74)	0		02-May-15		11-Oct-18	1014						02-May-15	◆ Slow lane footing - DS50 (NB74)																					
TCSS1600	Slip road island footing - DS50 (CH7940, S/B)	30	16-May-16	20-Jun-16	05-Sep-18	11-Oct-18	683																												
TCSS1610	Fast lane footing - DS50 (CH7940, S/B)	5	28-Nov-16	02-Dec-16	06-Oct-18	11-Oct-18	545																												
TCSS1840	TTA application & Approval - DS50 (Z4)	90	17-Aug-16	02-Dec-16	26-Jun-18	11-Oct-18	545																												
TCSS1850	Sign Gantry Erection - DS50 (Z4)	30	03-Dec-16	10-Jan-17	12-Oct-18	16-Nov-18	545																												
FADS8																																			
TCSS1620	Slow lane footing - FADS8 (CH8220, S/B)	30	02-Sep-14	09-Oct-14	05-Sep-18	11-Oct-18	1176																												
TCSS1630	Fast lane footing - FADS8 (CH8220, S/B)	30	28-Nov-16	04-Jan-17	05-Sep-18	11-Oct-18	520																												
TCSS1860	TTA application & Approval - FADS8 (Z4)	90	15-Sep-16	04-Jan-17	26-Jun-18	11-Oct-18	520																												
TCSS1870	Sign Gantry Erection - FADS8 (Z4)	30	05-Jan-17	16-Feb-17	12-Oct-18	16-Nov-18	520																												
FVMS2																																			
TCSS1640	Slow lane footing - FVMS2 (CH8400, S/B)	30	02-Jul-15	05-Aug-15	05-Sep-18	11-Oct-18	936																												
TCSS1650	Fast lane footing - FVMS2 (CH8400, S/B)	30	28-Nov-16	04-Jan-17	05-Sep-18	11-Oct-18	520																												
TCSS1880	TTA application & Approval - FVMS2 (Z4)	90	15-Sep-16	04-Jan-17	26-Jun-18	11-Oct-18	520																												
TCSS1890	Sign Gantry Erection - FVMS2 (Z4)	30	05-Jan-17	16-Feb-17	12-Oct-18	16-Nov-18	520																												
TCSS Hub Room																																			
TCSS1900	TCSS Hub Room Structure	45	07-Jul-16	27-Aug-16	07-Jun-18	31-Jul-18	565																												
TCSS1910	TCSS Hub Room Finishes	45	29-Aug-16	22-Oct-16	01-Aug-18	21-Sep-18	565																												
TCSS1920	TCSS Hub Room BS provision	45	24-Oct-16	14-Dec-16	22-Sep-18	16-Nov-18	565																												
Landscape Softwork																																			
Landscape Works																																			
Z4.LW.1000	Landscape soft work Zone4	150	18-Oct-18	17-Apr-19	16-Jun-18	13-Dec-18	-101																												
Establishment Works																																			
Establishment Works																																			
Z3.EW.1000	Establishment work Zone4	300	18-Apr-19	22-Apr-20	14-Dec-18	16-Dec-19	-101																												

Legend:

- Remaining Level of Effort
- Actual Level of Effort
- Remaining Work
- Critical Remaining Work
- Milestone
- Crit. Milestone

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21-Jan-14	IWP Rev.4		
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13-May-14	WP Rev.1		
30-Jun-14	WP Rev. 1A		

**APPENDIX C
IMPLEMENTATION SCHEDULE OF
ENVIRONMENTAL MITIGATION MEASURES
(EMIS)**

Appendix C - Implementation Schedule of Environmental Mitigation Measures (EMIS)

Air Quality - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status											
			Nov 14	Dec 14	Jan 15	Feb 15	Mar 15	Apr 15	May 15	Jun 15	Jul 15	Aug 15	Sep 15	Oct 15
Air Quality during Construction	Restricting heights from which materials are dropped, as far as practicable to minimize the fugitive dust arising from unloading/loading.	During construction	V	V	V	V	V	V	V	V	V	V	V	V
	All stockpiles of excavated materials or spoil of more than 50m ³ shall be enclosed, covered or dampened during dry or windy conditions.		@	+	V	+	V	V	V	+	V	@	@	@
	Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.		+	V	@	@	V	@	@	+	V	@	@	@
	All spraying of materials and surfaces shall avoid excessive water usage.		V	V	V	V	V	V	V	V	V	V	V	V
	Vehicles that have the potential to create dust while transporting materials shall be covered, with the cover properly secured and extended over the edges of the side and tail boards.		V	V	V	V	V	V	V	V	V	V	@	V
	Materials shall be dampened, if necessary, before transportation.		V	V	V	V	V	V	V	V	V	V	V	V
	Travelling speeds shall be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks.		V	V	V	V	V	V	V	V	V	V	V	V
	Vehicle washing facilities shall be provided to minimize the quantity of material deposited on public roads.		V	V	V	V	V	V	V	+	@	@	@	V

Noise - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status											
			Nov 14	Dec 14	Jan 15	Feb 15	Mar 15	Apr 15	May 15	Jun 15	Jul 15	Aug 15	Sep 15	Oct 15
Noise during Construction	Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During construction	V	V	V	V	V	V	V	V	V	V	@	V
	Reduce the number of equipment and their percentage on-time.		V	V	V	V	V	V	V	V	V	V	V	V
	3.5 m and 5.5 m high temporary noise barrier at culvert construction work area (Figure 2a of the Environmental Permit).		#	#	#	#	#	#	#	#	#	#	V	V
	3 m high temporary noise barrier along the northern edge of Bridge 12 at ground level (Figure 2b of the Environmental Permit).		#	#	#	#	#	#	#	#	#	#	V	V
	2 m high temporary noise barrier along the northern edge of Bridge 12 at bridge level (Figure 2b of the Environmental Permit).		#	#	#	#	#	#	#	#	#	#	V	V
	2.5 m high temporary noise barrier along Tai Wo Service Road West (Figure 2c of the Environmental Permit).		#	#	#	#	#	#	#	#	#	#	V	V
	3.5m and 7m high temporary noise barrier along Tai Wo Services Road West near Tai Hang (Figure 2c of the Environmental Permit).		#	#	#	#	#	#	#	#	#	#	V	V
	7 m high temporary noise barrier along Tai Wo Service Road West near Tai Wo Footbridge work area (Figure 2d of the Environmental Permit).		#	#	#	#	#	#	#	#	#	#	V	V
7 m high temporary noise barrier near Kiu Tau Footbridge work area (Figure 2d of the Environmental Permit).	#	#	#	#	#	#	#	#	#	#	V	V		

2.5 m high temporary noise barrier near river diversion work area (Figure 2e of the Environmental Permit).		#	#	#	#	#	#	#	#	#	#	#	N.A.	N.A.
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Water Quality - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status											
			Nov 14	Dec 14	Jan 15	Feb 15	Mar 15	Apr 15	May 15	Jun 15	Jul 15	Aug 15	Sep 15	Oct 15
Water quality during Construction	Demolition and reconstruction of bridges <ul style="list-style-type: none"> - Prevent off-site migration through use of sheet piles. - Minimise duration of works as far as practical. - All sewer and drainage connections should be sealed to prevent debris, soil, sand, etc, from entering public sewers/drains. - Site surface runoff should be settled to remove sand/silt before it is discharged into the existing storm drains. 	During construction	V	V	V	V	V	V	V	@	V	V	V	V
	Road Widening Works, Earthworks and Culvert Extension Works <ul style="list-style-type: none"> - Wastewater generated from any concrete batching washdown of equipment or similar activities should be discharged into foul sewers, after the removal of settleable solids, and pH adjustment as necessary. All sewage discharges from the study area should meet the TM standards and approval from EPD through the licensing process is required. - Sand traps, oil interceptors and other pollution prevention installations should be provided, properly cleaned and maintained. - Runoff from exposed working areas, unfinished slopes and from unlined temporary channels should be directed to stilling basins and/or silt traps before discharging to the drainage outfalls. - Regular inspections of stilling basins and/or silt traps is required to ensure that sediment is not conveyed into the existing drainage system. - Open stockpiles should be covered with a tarpaulin cover. - During the wet season, any exposed top soils should be covered with a tarpaulin, shotcreted or hydroseeded. - Sand and silt from wash-water from vehicle washing should be settled out before discharging into storm drains. - Fuels should be stored in bunded areas such that spillage can be easily collected. 		@	+	V	@	@	V	+	@	V	V	@	@

Waste - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status											
			Nov 14	Dec 14	Jan 15	Feb 15	Mar 15	Apr 15	May 15	Jun 15	Jul 15	Aug 15	Sep 15	Oct 15
Waste Management during Construction	General Waste <ul style="list-style-type: none"> - Transport of wastes off site as soon as possible. - Maintenance of accurate waste records. - Minimisation of waste generation for disposal (via reduction/recycling/re-use). - No on-site burning will be permitted. - Use of re-useable metal hoardings/signboards. 	During construction	@	@	@	V	V	V	@	@	@	V	V	V
	Vegetation from site clearance <ul style="list-style-type: none"> - Segregation of materials to facilitate disposal. - Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas. 		V	V	V	V	V	V	V	V	V	V	V	
	Demolition Wastes <ul style="list-style-type: none"> - Segregation of materials to facilitate disposal. - Appropriate stockpile management. 		V	V	V	V	V	V	V	V	V	V	V	V
	Excavated Materials <ul style="list-style-type: none"> - Segregation of materials to facilitate disposal / reuse. - Appropriate stockpile management. - Re-use of excavated material on or off site (where possible). - Special handling and disposal procedures in the event that contaminated materials are 		V	V	V	V	V	V	V	V	V	V	V	V

excavated.													
Construction Wastes		V	V	V	V	V	V	@	V	V	V	V	V
<ul style="list-style-type: none"> - Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles). - Appropriate stockpile management. - Planning to reduce over ordering and waste generation. - Recycling and re-use of materials where possible (e.g. metal, wood from formwork) - For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal. 													
Bentonite Slurries		#	#	#	#	#	#	#	#	#	#	#	#
<ul style="list-style-type: none"> - Bentonite slurries should be reused as far as possible. - Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94. 													
Chemical Wastes		V	@	V	@	@	@	+	@	V	V	V	@
<ul style="list-style-type: none"> - Storage within locked, covered and bunded area. - The storage area shall not be located adjacent to sensitive receivers e.g. drains. - Minimise waste production and recycle oils/solvents where possible. - A spill response procedure shall be in place and absorption material available for minor spillages. - Use appropriate and labelled containers. - Educate site workers on site cleanliness/waste management procedures. - If chemical wastes are to be generated, the contractor must register with EPD as a chemical waste producer. - The chemical wastes shall be collected by a licensed chemical waste collector. 													
Municipal Wastes		V	V	V	V	V	V	V	V	V	V	V	V
<ul style="list-style-type: none"> - Waste shall be stored within a temporary refuse collection facility, in appropriate containers prior to collection and disposal. - Regular, daily collections are required by an approved waste collector. 													

Ecology - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status											
			Nov 14	Dec 14	Jan 15	Feb 15	Mar 15	Apr 15	May 15	Jun 15	Jul 15	Aug 15	Sep 15	Oct 15
	Accurate Delineation of Works Area		V	V	V	V	V	V	V	V	V	V	V	V
	<ul style="list-style-type: none"> - Boundaries of proposed works areas shall be clearly identified and separated from external areas by a physical barrier to prevent encroachment of adjacent habitats. - Individual trees which fall within the works areas but which work plans do not require removal are to be retained and fenced off to maximize protection. 													
	Vegetation Clearance		V	V	V	V	V	V	V	V	V	V	V	V
	<ul style="list-style-type: none"> - No fires shall be lit within the works area for the purpose of burning cleared vegetation. - The Contractor shall give consideration to mulching the cleared vegetation for recycling within the works area / adjacent land. 													
	Dust generation		V	V	V	V	V	V	V	V	V	V	V	V
	<p>There are a number of measures which shall be taken as specified in the Air Pollution Control (Construction Dust) Regulation on 'Dust Control Requirements, including the following key measures to be applied during construction:</p> <ul style="list-style-type: none"> - Vehicle washing facilities to be provided at every discernible or designated vehicle exit point; - All temporary site access roads shall be sprayed with water to suppress dust as necessary; - All dusty materials should be sprayed with water immediately prior to any handling; and - All debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area. 													
	Surface Run-off		V	V	V	V	V	V	V	V	V	V	V	V
	In general, mitigation measures shall be in accordance with ProPECC PN1/94 on 'Construction													

Site Drainage'. Key measures include: <ul style="list-style-type: none"> - Bund and cover stock piles to avoid run-off; - Channel any run-off through a system of oil, grease and sediment / silt traps and reuse water on site where ever practical; - All vehicle maintenance to be undertaken within a bunded area; and - Maximise vegetation retention on-site to maximise absorption (minimise transport). 														
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Landscape and Visual Impact - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status											
			Nov 14	Dec 14	Jan 15	Feb 15	Mar 15	Apr 15	May 15	Jun 15	Jul 15	Aug 15	Sep 15	Oct 15
Landscape and Visual during Construction	Preservation of Existing Vegetation <ul style="list-style-type: none"> - Trees identified for retention within the project limit would be protected during the works; - The tree transplanting and planting works shall be implemented by approved Landscape Contractors. 	During construction	V	V	V	V	V	V	V	V	V	V	V	V
	Temporary Works Areas <ul style="list-style-type: none"> - Where feasible the works areas would be screened using hoarding and existing vegetation would be retained where possible to reduce the landscape and visual impacts arising from the construction activity. The landscape of these works areas would be restored following the completion of the construction phase. 		V	V	V	V	V	V	V	V	V	V	V	
	Hoarding <ul style="list-style-type: none"> - A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSRs. 		V	V	V	V	V	V	V	V	V	V	V	V
	Top Soils <ul style="list-style-type: none"> - The works will result in disturbance to extensive areas of topsoil. Topsoil worthy of retention should be stockpiled for use following completion of the civil engineering works. It should either be temporarily vegetated with hydroseeded grass or turned over on a regular basis. 		#	#	#	#	#	#	#	#	#	#	#	#
	Protection of Important Landscape Features <ul style="list-style-type: none"> - Important features such as temples, Island House and kilns within the study area, although remote from the proposed works retained and adequately protected. 		#	#	#	#	#	#	#	#	#	#	#	#

Legend:

V = implemented;

x = not implemented;

@ = partially implemented;

+ = recommended and immediately implemented during the site inspection by the Contractor;

N/A = not applicable - No such work was undertaken or no such material was used on site;

= to be implemented.

**APPENDIX D
SUMMARY OF ACTION AND LIMIT LEVELS**

Appendix D - Summary of Action and Limit Levels

Table 1 – Action and Limit Levels for 1-hour TSP

Location	Action Level	Limit Level
AM2	317.8 µg/m ³	500 µg/m ³

Table 2 – Action and Limit Levels for 24-hour TSP

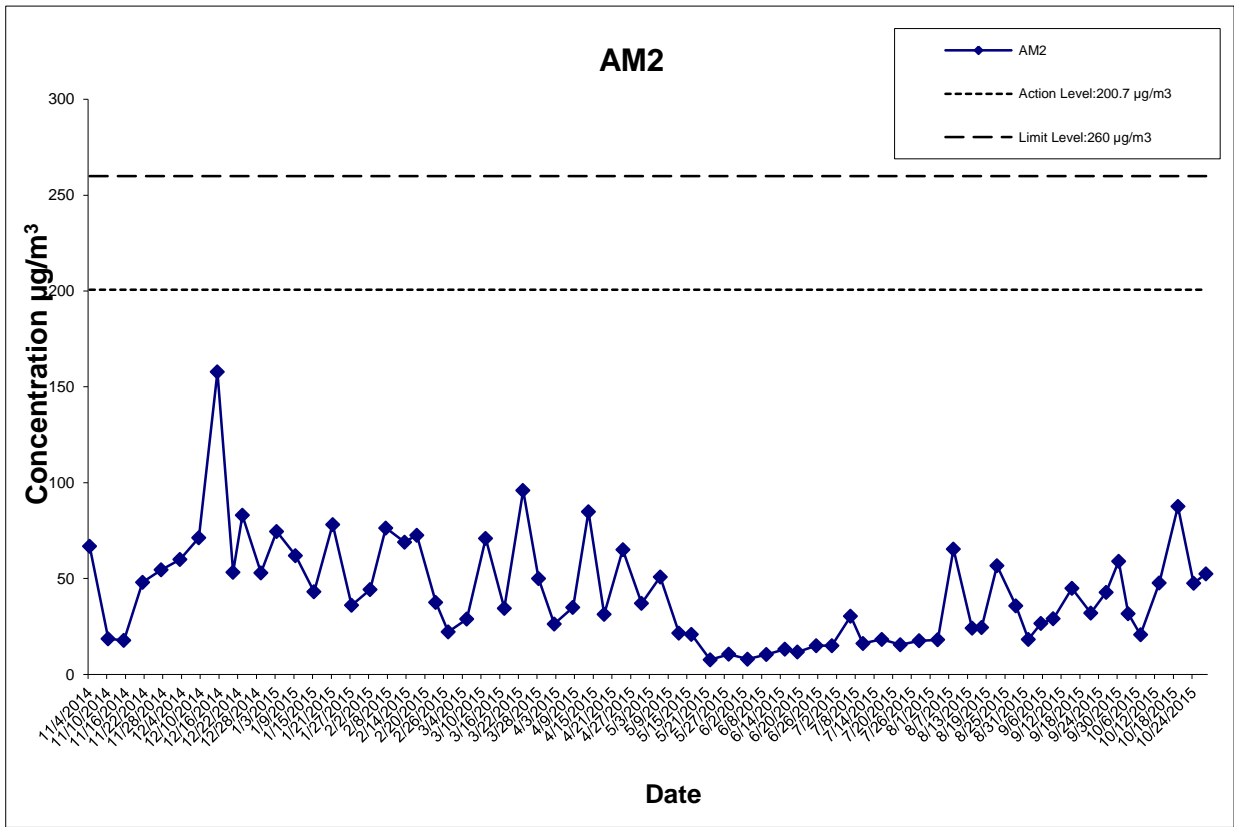
Location	Action Level	Limit Level
AM2	200.7 µg/m ³	260 µg/m ³

Table 3 – Action and Limit Levels for Construction Noise (0700-1900 hrs of normal weekdays)

Location	Action Level	Limit Level
M2	When one documented complaint, related to 0700 – 1900 hours on normal weekdays, is received from any one of the sensitive receivers	75 dB(A)
M3*		65/70 dB(A)

*Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period

**APPENDIX E
IMPACT AIR QUALITY MONITORING
RESULTS AND THEIR GRAPHICAL
PRESENTATION**



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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Graphical Presentation of Impact 24-hour TSP Monitoring Results

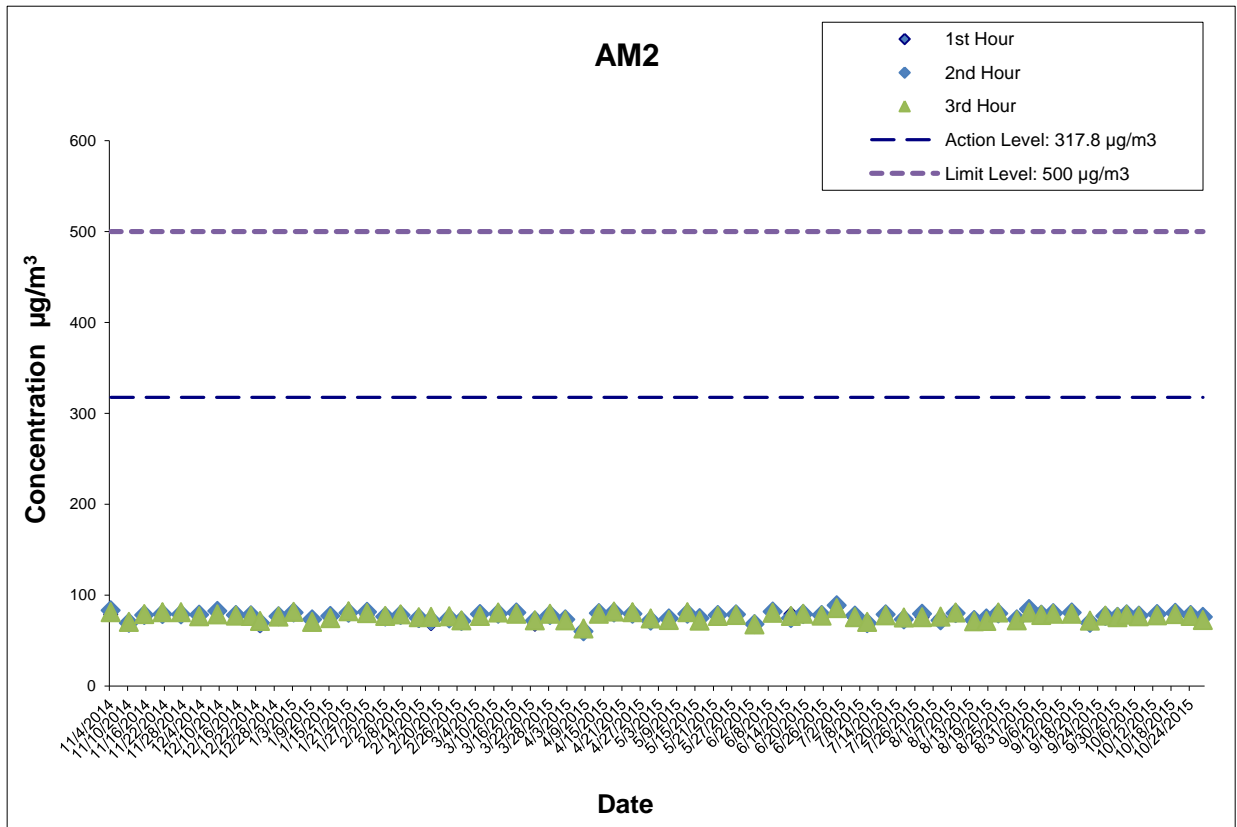
Project No.: 60307376 Date: Dec-15

Appendix E

Impact Air Quality Monitoring Results

1-hour TSP Monitoring Results at Station AM2 (Fanling Government Secondary School)

Date	Start Time (hh:mm)	1st Hour	2nd Hour	3rd Hour
		Conc. ($\mu\text{g}/\text{m}^3$)	Conc. ($\mu\text{g}/\text{m}^3$)	Conc. ($\mu\text{g}/\text{m}^3$)
4-Nov-14	12:30	78.8	83.2	81.2
10-Nov-14	10:00	68.2	69.4	70.7
15-Nov-14	13:04	79.4	78.1	79.2
21-Nov-14	12:31	80.5	79.2	81.1
27-Nov-14	13:15	79.6	79.0	81.1
3-Dec-14	12:34	77.2	78.5	76.8
9-Dec-14	13:05	80.8	82.6	78.7
15-Dec-14	11:18	77.9	78.1	77.4
20-Dec-14	13:20	76.6	77.8	77.2
23-Dec-14	13:45	66.6	69.7	71.7
29-Dec-14	14:00	75.6	76.8	76.4
3-Jan-15	14:03	82.1	80.9	81.6
9-Jan-15	10:15	71.7	73.2	70.6
15-Jan-15	13:08	76.9	77.2	74.6
21-Jan-15	11:47	81.1	80.7	82.2
27-Jan-15	10:39	78.2	81.6	80.4
2-Feb-15	10:22	74.6	76.5	77.2
7-Feb-15	13:10	78.6	78.2	78.9
13-Feb-15	13:30	72.3	74.6	75.9
17-Feb-15	13:30	69.0	72.4	76.0
23-Feb-15	13:30	73.3	74.2	76.8
27-Feb-15	10:05	73.1	71.6	72.3
5-Mar-15	11:05	78.6	79.1	77.3
11-Mar-15	10:40	78.9	79.6	81.0
17-Mar-15	13:45	81.9	80.8	79.7
23-Mar-15	10:00	68.2	71.9	72.4
28-Mar-15	13:10	79.1	78.1	79.5
2-Apr-15	13:05	71.4	73.3	72.2
8-Apr-15	10:30	61.0	60.2	63.3
13-Apr-15	14:28	80.9	80.1	79.5
18-Apr-15	9:57	82.1	80.9	81.9
24-Apr-15	13:27	80.7	79.6	81.2
30-Apr-15	10:55	72.6	71.9	74.3
6-May-15	10:00	73.0	74.4	72.5
12-May-15	14:09	80.9	79.5	81.1
16-May-15	14:10	73.5	74.6	72.0
22-May-15	9:31	77.4	78.1	77.1
28-May-15	10:52	78.1	79.0	78.3
3-Jun-15	9:50	66.9	68.2	67.7
9-Jun-15	12:49	81.9	82.1	80.7
15-Jun-15	11:30	79.2	74.8	77.2
19-Jun-15	11:28	78.1	79.2	79.4
25-Jun-15	10:02	76.7	78.0	77.6
30-Jun-15	10:00	86.8	88.7	85.9
6-Jul-15	11:00	74.8	77.6	75.9
10-Jul-15	13:00	67.6	69.2	70.5
16-Jul-15	10:42	77.4	79.0	77.8
22-Jul-15	10:40	74.3	73.2	75.5
28-Jul-15	10:00	76.2	79.4	75.8
3-Aug-15	13:00	75.1	72.4	76.3
8-Aug-15	13:05	79.7	80.4	80.9
14-Aug-15	10:50	70.6	72.6	71.4
18-Aug-15	13:00	72.6	74.3	71.5
22-Aug-15	13:15	80.3	79.8	80.9
28-Aug-15	14:10	71.6	73.4	72.4
1-Sep-15	13:50	82.2	84.6	80.8
5-Sep-15	13:14	79.3	78.6	78.0
9-Sep-15	12:46	79.2	80.3	79.4
15-Sep-15	13:09	81.2	80.9	79.7
21-Sep-15	14:00	68.6	69.7	72.0
26-Sep-15	13:45	76.4	77.0	77.6
30-Sep-15	10:00	76.8	76.2	75.9
3-Oct-15	13:15	79.2	78.9	78.5
7-Oct-15	12:57	78.1	77.4	76.7
13-Oct-15	14:43	78.6	79.2	77.9
19-Oct-15	14:20	78.8	80.6	79.3
24-Oct-15	14:00	77.2	78.3	77.1
28-Oct-15	13:05	74.6	76.1	72.8
Average for the reporting period (Nov 14 to Oct 15)				76.7
Minimum for the reporting period (Nov 14 to Oct 15)				60.2
Maximum for the reporting period (Nov 14 to Oct 15)				88.7



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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Graphical Presentation of Impact 1-hour TSP Monitoring Results

Project No.: 60307376

Date: Dec-15

Appendix E

**APPENDIX F
METEROLOGICAL DATA**

Appendix F Meteorological Data

November 2014

The weather of November 2014 was overall cloudier yet warmer than usual. The mean temperature for the month was 22.6 degrees, 0.8 degrees above the normal figure of 21.8 degrees. Despite more clouds and less sunshine, the total rainfall of 31.1 millimetres recorded in the month was about 17 percent below the normal figure of 37.6 millimetres. The accumulated rainfall since 1 January was 2593.6 millimetres, about 9 percent above the normal of 2371.7 millimetres for the same period.

December 2014

Affected by frequent replenishments of the winter monsoon, the weather of December 2014 was cooler than normal, with spells of cloudy and rainy weather. The mean temperature for the month was 16.3 degrees, 1.6 degrees below the normal figure of 17.9 degrees. The total duration of bright sunshine in the month was 115.3 hours, 33 percent below the normal figure of 172.2 hours. The monthly total rainfall was 44.7 millimetres, about 67 percent above the normal figure of 26.8 millimetres. The annual rainfall of 2014 was 2638.3 millimetres, about 10 percent above the normal of 2398.5 millimetres.

January 2015

With the northeast monsoon bringing dry continental air mass to the south China coast during the month, the weather of January 2015 was sunnier than usual. The total duration of sunshine in the month was 198.8 hours, 39 percent above the normal figure of 143.0 hours. The monthly mean amount of cloud was 45 percent, against a normal figure of 61 percent. As a result of the rain on 12 and 13 January, the monthly total rainfall of 41.7 millimetres was 69 percent above the January normal of 24.7 millimetres. Overall, the mean temperature of the month was 16.4 degrees, only 0.1 degree above normal.

February 2015

February 2015 was a month of two halves : mostly fine and dry in the first half, and generally cloudy and humid in the second half. Overall, it was warmer than usual with a monthly mean temperature of 17.5 degrees compared to the normal figure of 16.8 degrees. The monthly rainfall was 32.0 millimetres, less than 60 percent of the normal figure of 54.4 millimetres. The accumulated rainfall of 73.7 millimetres in the first two months of the year was about 7 percent below the normal figure of 78.9 millimetres for the same period.

March 2015

With a maritime airstream dominating over the coast of Guangdong during the latter half of the month, the weather of Hong Kong in March 2015 was warmer than usual. The monthly mean temperature was 19.9 degrees, 0.8 degrees higher than the normal figure of 19.1 degrees. The total rainfall in the month was 28.4 millimetres, only about 35 percent of the normal figure of 82.2 millimetres. The accumulated rainfall of 102.1 millimetres since 1 January was about 37 percent below the normal figure of 161.3 millimetres for the same period.

April 2015

April 2015 was characterized by sunny, warm and relative dry weather, in particular during the second half of the month. Overall, the total duration of sunshine in April 2015 was 159.2 hours, 57.5 hours above the normal figure of 101.7 hours. The mean temperature of the month was 23.6 degrees, 1.0 degree higher than the normal figure of 22.6 degrees. The monthly mean relative humidity was 77 percent, the third lowest for April since 1961.

May 2015

May 2015 was the fourth hottest May since records began in 1884. Its monthly mean temperature of 27.5 degrees was 1.6 degrees higher than the normal figure of 25.9 degrees. Affected by active troughs of low pressure in the second half of the month, May 2015 was actually cloudier than usual and rather rainy as well. Bright sunshine during the month amounted to 93.5 hours only, about 33 percent below the normal figure of 140.4 hours, the seventh lowest for May on record. The monthly total rainfall was 513.0 millimetres, a surplus

of 68 percent against the normal figure of 304.7 millimetres. The accumulated rainfall of 679.6 millimetres since 1 January was about 6 percent above the normal figure of 640.8 millimetres for the same period.

June 2015

June 2015 was the hottest June in Hong Kong since records began in 1884. The monthly mean temperature of 29.7 degrees was 1.8 degrees above the normal figure of 27.9 degrees and broke the previous record of 29.0 degrees set in 2014 by a wide margin of 0.7 degree. Both the monthly mean minimum temperature of 27.7 degrees and the monthly mean maximum temperature of 32.3 degrees ranked the highest for June. The extremely hot weather in June 2015 in Hong Kong was partly attributed to the westward extension of the subtropical ridge of high pressure from the western North Pacific to southern China during the month. The prevailing southerly flow and the above-normal sea surface temperature over the northern part of the South China Sea also contributed to the sweltering weather.

July 2015

July 2015 was warmer and cloudier than usual. The mean temperature in the month was 29.1 degrees, 0.3 degrees above the normal figure of 28.8 degrees. The monthly mean cloud amount of 75 percent was 6 percent above the normal figure of 69 percent. With the increase in cloudiness, the total sunshine duration recorded in July 2015 was only 164.9 hours, about 22 percent below normal. The month was also wetter than usual with a monthly total rainfall of 406.2 millimetres, 8 percent above the normal figure of 376.5 millimetres. The accumulated rainfall of 1387.9 millimetres since 1 January was about 6 percent below the normal figure of 1473.3 millimetres for the same period.

August 2015

August 2015 was hotter and drier than usual. The mean temperature in the month was 29.3 degrees, 0.7 degree above the normal figure of 28.6 degrees and the seventh highest for August on record. The monthly total rainfall recorded in August 2015 was 143.3 millimetres, only about one-third of the normal figure of 432.2 millimetres. The accumulated rainfall of 1531.2 millimetres since 1 January was about 20 percent below the normal figure of 1905.5 millimetres for the same period.

September 2015

September 2015 was marked by sunny and warm weather with below normal rainfall. The monthly mean temperature of 28.4 degrees was the seventh highest for September on record and 0.7 degrees above the normal figure of 27.7 degrees. With no tropical cyclone affecting Hong Kong and necessitating the issuance of tropical cyclone warning signals in August and September, a record since 1946, the total rainfall in September was only 87.9 millimetres, a deficit of about 73 percent comparing to the normal figure of 327.6 millimetres. The accumulated rainfall of 1619.1 millimetres since 1 January was about 27 percent below the normal figure of 2233.1 millimetres for the same period.

October 2015

The weather of October 2015 was warmer than usual. The monthly mean temperature of 26.0 degrees was 0.5 degrees above the normal figure of 25.5 degrees. The month was also wetter than usual, mainly as a result of heavy rain brought by tropical cyclone Mujigae during the first week of the month. A total of 168.3 millimetres of rainfall was recorded of the month, about 67 percent above the normal figure of 100.9 millimetres. However, the accumulated rainfall of 1787.4 millimetres since 1 January was still about 23 percent below the normal figure of 2334.0 millimetres for the same period.

**APPENDIX G
IMPACT DAYTIME CONSTRUCTION NOISE
MONITORING RESULTS AND THEIR
GRAPHICAL PRESENTATION**

Location : M2 (West Tai Wo - Free Field)

Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

Date	Measured Noise Level for 30-min, dB(A)				Limit Level, dB(A)	Exceedance (Y/N)
	Start Time	Leq*	L10*	L90*		
4-Nov-14	13:02	71.2	74.8	69.6	75	N
10-Nov-14	14:00	69.8	72.0	67.5	75	N
21-Nov-14	11:37	65.9	68.0	61.9	75	N
27-Nov-14	14:12	64.7	66.9	62.0	75	N
3-Dec-14	13:40	69.2	71.1	66.6	75	N
9-Dec-14	14:10	69.6	71.9	67.5	75	N
15-Dec-14	10:08	68.8	71.3	65.0	75	N
23-Dec-14	14:35	69.0	71.5	66.0	75	N
29-Dec-14	14:45	68.2	70.3	65.4	75	N
9-Jan-15	11:05	68.1	70.0	66.0	75	N
15-Jan-15	14:30	70.3	72.1	67.4	75	N
21-Jan-15	11:21	68.6	70.4	63.2	75	N
27-Jan-15	11:30	68.1	71.5	65.3	75	N
2-Feb-15	11:16	70.6	72.0	67.2	75	N
13-Feb-15	14:28	69.3	71.6	66.8	75	N
17-Feb-15	14:20	69.7	71.0	66.8	75	N
23-Feb-15	14:45	67.2	69.1	65.0	75	N
27-Feb-15	11:00	70.6	72.2	67.4	75	N
5-Mar-15	13:14	66.9	68.5	64.2	75	N
11-Mar-15	9:50	67.8	69.6	63.5	75	N
17-Mar-15	11:29	67.5	69.2	65.3	75	N
23-Mar-15	10:45	69.1	72.0	68.0	75	N
2-Apr-15	14:00	69.4	71.7	68.0	75	N
8-Apr-15	11:30	69.4	71.5	67.5	75	N
13-Apr-15	14:55	68.0	69.5	66.2	75	N
24-Apr-15	13:31	68.5	70.1	66.4	75	N
30-Apr-15	10:00	70.6	72.3	67.0	75	N
6-May-15	11:00	69.8	71.5	67.0	75	N
12-May-15	14:17	69.8	71.5	67.1	75	N
22-May-15	10:34	64.9	71.7	69.2	75	N
28-May-15	10:01	69.7	72.2	68.0	75	N
3-Jun-15	10:35	69.3	71.5	66.5	75	N
9-Jun-15	15:05	68.9	70.5	66.2	75	N
15-Jun-15	13:09	69.4	72.5	67.2	75	N
25-Jun-15	10:49	69.2	70.8	65.9	75	N
30-Jun-15	10:30	69.2	71.5	67.0	75	N
6-Jul-15	10:00	69.2	71.4	67.1	75	N
10-Jul-15	13:20	69.0	70.5	66.5	75	N
16-Jul-15	9:48	69.5	71.8	65.9	75	N
22-Jul-15	9:57	68.4	70.4	66.3	75	N
28-Jul-15	9:50	70.2	73.1	68.0	75	N
3-Aug-15	13:25	68.5	69.5	66.0	75	N
14-Aug-15	10:00	70.2	73.6	68.5	75	N
18-Aug-15	14:00	69.6	73.2	66.8	75	N
28-Aug-15	14:00	70.2	73.6	68.1	75	N
1-Sep-15	14:30	69.3	71.0	69.3	75	N
9-Sep-15	14:17	69.6	72.4	68.2	75	N
15-Sep-15	14:35	70.1	72.3	68.5	75	N
21-Sep-15	15:00	69.2	71.0	69.2	75	N
30-Sep-15	10:50	68.4	70.2	66.7	75	N
7-Oct-15	15:40	68.7	70.5	66.9	75	N
13-Oct-15	13:49	69.8	72.6	68.2	75	N
19-Oct-15	13:30	70.2	71.1	66.9	75	N
28-Oct-15	14:00	70.6	72.0	67.3	75	N
Minimum for Nov 14 to Oct 15		64.7	66.9	61.9		
Maximum for Nov 14 to Oct 15		71.2	74.8	69.6		
Average for Nov 14 to Oct 15		69.1	71.3	66.8		

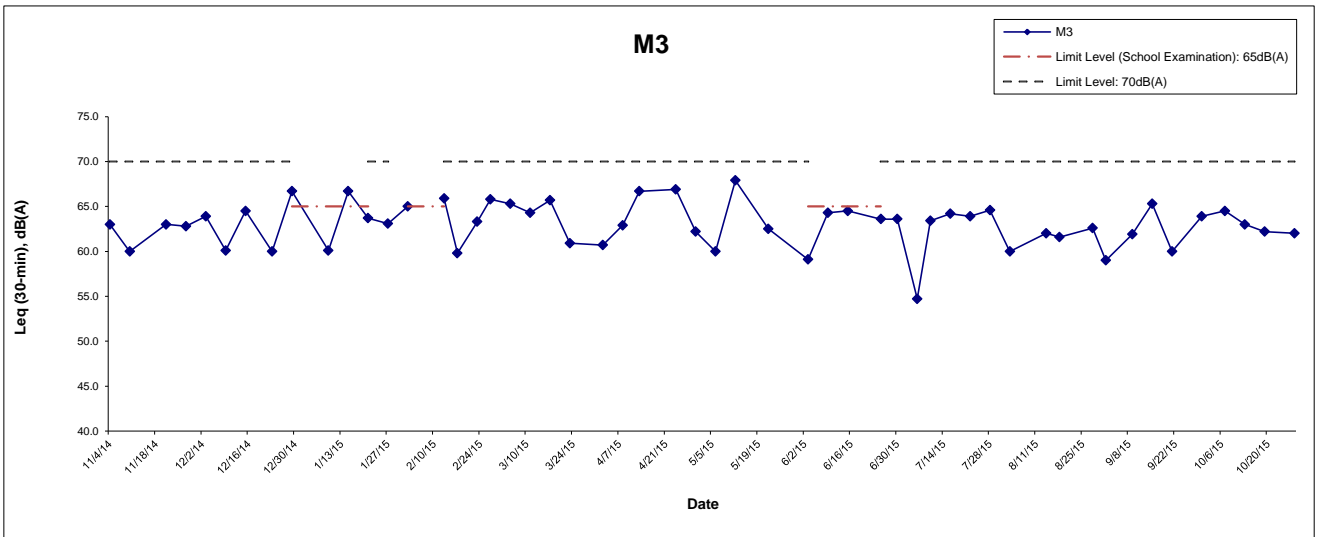
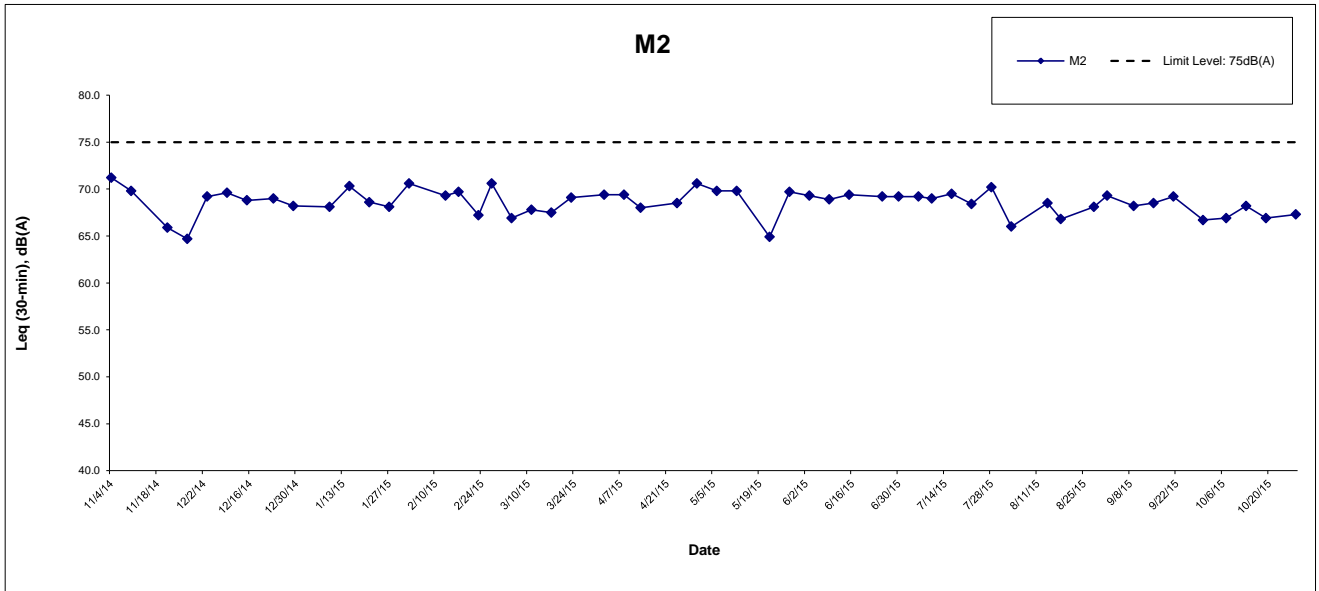
Location : M3 (Fanling Government Secondary School- Façade)

Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

Date	Measured Noise Level for 30-min, dB(A)				Limit Level, dB(A)^	Exceedance (Y/N)
	Start Time	Leq	L10	L90		
4-Nov-14	14:00	63.0	66.4	61.0	70	N
10-Nov-14	13:10	60.0	61.5	57.5	70	N
21-Nov-14	13:00	63.0	65.6	60.8	70	N
27-Nov-14	13:20	62.8	64.1	59.8	70	N
3-Dec-14	14:32	63.9	65.4	60.1	70	N
9-Dec-14	13:10	60.1	61.4	57.5	70	N
15-Dec-14	11:21	64.5	66.7	61.3	70	N
23-Dec-14	13:50	60.0	61.5	57.0	70	N
29-Dec-14	14:00	66.7	68.4	64.8	70	N
9-Jan-15	10:15	60.1	61.4	56.5	65	N
15-Jan-15	13:12	66.7	68.5	63.1	65	Y
21-Jan-15	14:02	63.7	64.8	59.8	70	N
27-Jan-15	10:40	63.1	67.2	60.6	70	N
2-Feb-15	10:25	65.0	66.3	62.0	65	N
13-Feb-15	13:33	65.9	67.6	63.8	70	N
17-Feb-15	13:55	59.8	60.6	56.5	70	N
23-Feb-15	13:30	63.3	65.1	60.8	70	N
27-Feb-15	10:05	65.8	68.6	62.4	70	N
5-Mar-15	11:05	65.3	67.9	62.7	70	N
11-Mar-15	10:45	64.3	66.0	62.1	70	N
17-Mar-15	13:40	65.7	68.1	63.2	70	N
23-Mar-15	9:50	60.9	62.0	58.4	70	N
2-Apr-15	13:05	60.7	62.1	58.5	70	N
8-Apr-15	10:35	62.9	64.0	60.0	70	N
13-Apr-15	15:50	66.7	68.1	64.3	70	N
24-Apr-15	14:23	66.9	68.4	64.1	70	N
30-Apr-15	11:00	62.2	63.6	60.0	70	N
6-May-15	10:00	60.0	61.1	56.0	70	N
12-May-15	13:32	67.9	69.5	65.4	70	N
22-May-15	9:30	62.5	67.0	65.8	70	N
28-May-15	11:00	64.9	66.4	61.1	70	N
3-Jun-15	9:50	59.1	60.0	57.0	70	N
9-Jun-15	15:35	64.3	66.0	60.5	65	N
15-Jun-15	13:45	64.5	66.5	61.5	65	N
25-Jun-15	10:00	63.6	66.0	60.2	70	N
30-Jun-15	9:50	63.6	64.5	60.0	70	N
6-Jul-15	10:58	54.7	67.4	61.2	70	N
10-Jul-15	13:00	63.4	64.5	61.0	70	N
16-Jul-15	10:44	64.2	66.0	61.1	70	N
22-Jul-15	10:52	63.9	65.1	62.2	70	N
28-Jul-15	10:00	64.6	67.4	62.1	70	N
3-Aug-15	13:00	62.1	63.5	60.0	70	N
14-Aug-15	10:50	64.1	67.3	62.0	70	N
18-Aug-15	13:00	64.2	66.8	61.6	70	N
28-Aug-15	14:10	64.1	67.3	62.6	70	N
1-Sep-15	15:20	61.1	62.5	59.0	70	N
9-Sep-15	12:46	64.4	66.3	61.9	70	N
15-Sep-15	13:15	67.2	69.1	65.3	70	N
21-Sep-15	14:00	62.6	64.0	60.0	70	N
30-Sep-15	10:00	65.2	66.4	63.9	70	N
7-Oct-15	14:46	66.4	68.1	64.5	70	N
13-Oct-15	14:41	64.4	66.8	63.0	70	N
19-Oct-15	14:19	64.6	67.0	62.2	70	N
28-Oct-15	13:10	64.2	66.0	62.0	70	N
Minimum for Nov 14 to Oct 15		54.7	60.0	56.0		
Maximum for Nov 14 to Oct 15		67.9	69.5	65.8		
Average for Nov 14 to Oct 15		63.9	66.0	61.6		

* +3dB(A) Façade effect correction included

^ Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.



Remark:

^ Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.

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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Graphical Presentation of Impact Daytime Construction Noise Monitoring Results

Project No.: 60307376

Date:

Dec-15

Appendix G

**APPENDIX H
STATISTICS ON COMPLAINTS,
NOTIFICATION OF SUMMONS AND
SUCCESSFUL PROSECUTIONS**

Appendix H

Statistics on Complaints, Notifications of Summons and Successful Prosecutions

	Date Received	Subject	Status	Total no. followed up by the ET this reporting period	Total no. followed up by the ET since project commencement
Environmental complaints	19 December 2013	EPD referred a complaint from Lot no. 116 of Fui Sha Wai at Tai Hang of Tai Po which is concerned about the construction noise and diesel-like smell generated from construction activities nearby which caused nuisance and health problems on 19 December 2013 morning.	Closed	0	5
	24 February 2014	EPD referred an air-and-odour complaint on 24 February 2014. The complainant complained about the construction site located near the bus stop in Fui Sha Wai, Tai Hang, Tai Wo Service Road West. When construction works were carried out, odour, white smoke and dust were generated. The complainant asked for follow-up actions.	Closed		

Date Received	Subject	Status	Total no. followed up by the ET this reporting period	Total no. followed up by the ET since project commencement
23 October 2014	<p>EPD referred an air complaint on 24 October 2014.</p> <p>A resident complained against the excavation works of Tai Wo Service Road West between Nam Wah Po & Tai Hang Tsuen, which have piled up high stockpiles, causing serious dust nuisance to his house.</p> <p>The resident also complained that the stockpiles have not been covered and watered properly. He now requires the EPD to follow up.</p> <p>The location of complaint is near Lamppost Location EB5717.</p>	Closed		
31 December 2014	<p>EPD referred a water complaint on 31 December 2014.</p> <p>The complainant complained about the muddy river outside Tai Hang Village Office on 29 December 2014. It was suspected that the muddy water was discharged from the construction works of the Project.</p> <p>He required the EPD to follow up.</p>	Closed		

	Date Received	Subject	Status	Total no. followed up by the ET this reporting period	Total no. followed up by the ET since project commencement
	25 March 2015	<p>EPD referred a water complaint on 25 March 2015.</p> <p>The complainant complained about the generation of the smell of gasoline from the Widening of Fanling Highway construction site on Tai Wo Service Road West, causing serious nuisance to nearby houses.</p> <p>The situation has continued for a few weeks and she asked the EPD to follow up as soon as possible.</p>	Closed		
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0