

**Contract No. HY/2012/07**  
**Tuen Mun – Chek Lap Kok Link –**  
**Southern Connection Viaduct Section**

*Fourth Monthly EM&A Report*

12 March 2014

**Environmental Resources Management**  
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Quarry Bay, Hong Kong  
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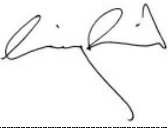



# Contract No. HY/2012/07 Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section

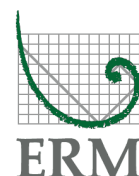
## Environmental Resources Management

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*Fourth Monthly EM&A Report*

**Document Code: 0215660\_4th Monthly EM&A.pdf**

Client:  Gammon		Project No:  0215660			
Summary:  This document presents the Fourth Monthly EM&A Report for Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section.		Date: 12 March 2014			
		Approved by:  			
		Mr Craig Reid Partner			
		Certified by:  			
		Mr Jovy Tam ET Leader			
Rev a	Fourth Monthly EM&A Report	CL	JT	CAR	12/03/14
Revision	Description	By	Checked	Approved	Date
This report has been prepared by Environmental Resources Management the trading name of 'ERM Hong-Kong, Limited', with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.  We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.		Distribution		 <input type="checkbox"/> Internal <input checked="" type="checkbox"/> Public <input type="checkbox"/> Confidential 	



Ref.: HYDHZMBEEM00\_0\_1796L.14

13 March 2014

AECOM  
Supervising Officer Representative's Office  
6 Hoi Kok Street,  
Tsuen Wan, N.T.

By Fax (2492 2057) and By Post

Attention: Mr. Daniel Ip

Dear Sir,

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

**Contract No. HY/2012/07 TM-CLKL Southern Connection Viaduct Section  
Monthly EM&A Report for February 2014 (EP-354/2009/B)**

Reference is made to the Monthly Environmental Monitoring and Audit (EM&A) Report (for February 2014) certified by the ET Leader (ET's ref.: "0215660\_4th Monthly EM&A.pdf" dated 12 March 2014) and provided to us via email on 12 March 2014.

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

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

Yours sincerely,



Tony Cheng  
Independent Environmental Checker  
Tuen Mun – Chek Lap Kok Link

c.c. HyD – Mr. Stephen Chan (By Fax: 3188 6614)  
HyD – Mr. Matthew Fung (By Fax: 3188 6614)  
AECOM – Mr. Conrad Ng (By Fax: 3922 9797)  
ERM – Mr. Jovy Tam (By Fax: 2723 5660)  
Gammon – Mr. Roy Leung (By Fax: 2750 0922)

Internal: DY, YH, PL, ENPO Site

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## **EXECUTIVE SUMMARY**

Under *Contract No. HY/2012/07*, Gammon Construction Limited (GCL) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Southern Connection Viaduct Section of the Tuen Mun – Chek Lap Kok Link Project (TM-CLK Link Project) while AECOM Asia Company Limited was appointed by HyD as the Supervising Officer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET). ENVIRON Hong Kong Ltd. was employed by the HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) in accordance with *Environmental Permit No. EP-354/2009/A*. Another application for variation of environmental permit (VEP) (*EP-354/2009/B*) was granted on 28 January 2014.

The construction phase of the Contract commenced on 31 October 2013 and will be tentatively be completed by 2018. The impact monitoring of the EM&A programme, including air quality, noise, water quality and marine ecological monitoring as well as environmental site inspections, commenced on 31 October 2013.

This is the fourth monthly EM&A report presenting the EM&A works carried out during the period from 1 to 28 February 2014 for the Southern Connection Viaduct Section in accordance with the Updated EM&A Manual of the TM-CLK Link Project. As informed by the Contractor, major activities in the reporting period included:

### ***Marine-based Works***

- Marine piling platform installation;
- Preparation works for marine piling at Viaduct B;
- Survey tower erection;
- Construction of rockfill platform at Viaduct D landing; and
- Additional marine ground investigation (GI) and laboratory testing.

### ***Land-based Works***

- Satellite container offices erection along seawall;
- Fence installation and relocation of Area 2, Viaduct A, B, C & D;
- Land Piling at Viaduct B;
- Piling platform installation for Viaducts B, D & E; and
- Additional land ground investigation (GI), trial pits & laboratory testing.

A summary of monitoring and audit activities conducted in the reporting period is listed below:

24-hour TSP monitoring	6 sessions
1-hour TSP monitoring	6 sessions

Noise monitoring	6 sessions
Impact Water Quality Monitoring	11 sessions
Impact dolphin monitoring	2 sessions
Joint Environmental site inspection	4 sessions

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

No exceedance of Action and Limit Levels was recorded for construction noise monitoring in the reporting month.

#### **Breaches of Action and Limit Levels for Noise**

No exceedance of Action and Limit Levels was recorded for construction noise monitoring in the reporting month.

#### **Breaches of Action and Limit Levels for Water Quality**

No exceedance of Action and Limit Levels was recorded for impact water quality monitoring in the reporting month.

#### **Impact Dolphin Monitoring**

During this month of dolphin monitoring, no unacceptable impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on Chinese White Dolphins was noticeable from general observations. Due to monthly variation in dolphin occurrence within the study area, it would be more appropriate to draw conclusion on whether any impacts on dolphins have been detected related to the construction activities of the TM-CLKL Southern Connection Viaduct Section in the quarterly EM&A reports, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period and baseline monitoring period will be made.

Daily marine mammal exclusion zone monitoring was undertaken. No sighting of the Indo-Pacific humpback dolphin *Sousa chinensis* was recorded in February 2014 during the exclusion zone monitoring.

#### **Environmental Complaints, Non-compliance & Summons**

No complaint, notification of summons and successful prosecution was received in the reporting month.

#### **Reporting Change**

There was no reporting change required in the reporting period.



## **Upcoming Works for the Next Reporting Period**

Works to be undertaken in the next monitoring period of March 2014 include the following:

### ***Marine Works***

- Marine piling platform installation;
- Marine piling at Viaduct B;
- Survey tower erection;
- Construction of rockfill platform at Viaduct D landing; and
- Additional marine ground investigation (GI) and laboratory testing.

### ***Land-based Works***

- Satellite container offices erection along seawall;
- Fence installation and relocation of Area 2, Viaducts A, B, C & D;
- Land piling at Viaduct B;
- Piling platform installation for Viaducts B, D & E;
- Additional land ground investigation (GI), trial pits & laboratory testing;
- Utility surveys; and
- Soil nail and excavation at slope 9SE-B/C8.

## **Future Key Issues**

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of March 2014 are mainly associated with dust, noise, marine water quality, marine ecology and waste management issues.

## 1.1

## BACKGROUND

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

An Environmental Impact Assessment (EIA) of TM-CLKL (the Project) was prepared in accordance with the EIA Study Brief (No. ESB-175/2007) and the *Technical Memorandum of the Environmental Impact Assessment Process (EIAO-TM)*. The EIA Report was submitted under the Environmental Impact Assessment Ordinance (EIAO) in August 2009. Subsequent to the approval of the EIA Report (EIAO Register Number AEIAR-145/2009), an Environmental Permit (EP-354/2009) for TM-CLKL was granted by the Director of Environmental Protection (DEP) on 4 November 2009, and EP variation (EP-354/2009A) was issued on 8 December 2010.

Under *Contract No. HY/2012/07*, Gammon Construction Limited (GCL) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Southern Connection Viaduct Section of TM-CLKL (“the Contract”) while AECOM Asia Company Limited was appointed by HyD as the Supervising Officer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET). ENVIRON Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) in accordance with *Environmental Permit No. EP-354/2009/A*. Another application for variation of environmental permit (VEP) (*EP-354/2009/B*) was granted on 28 January 2014.

The construction phase of the Contract commenced on 31 October 2013 and will be tentatively be completed by 2018. The impact monitoring phase of the EM&A programme, including air quality, noise, water quality and marine ecological monitoring as well environmental site inspections, commenced on 31 October 2013.

## 1.2 SCOPE OF REPORT

This is the fourth monthly EM&A Report under the *Contract No. HY/2012/07 Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section*. This report presents a summary of the environmental monitoring and audit works in February 2014.

## 1.3 ORGANIZATION STRUCTURE

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

**Table 1.1** *Contact Information of Key Personnel*

Party	Position	Name	Telephone	Fax
SOR (AECOM Asia Company Limited)	Chief Resident Engineer	Daniel Ip	3553 3800	2492 2057
ENPO / IEC (ENVIRON Hong Kong Ltd.)	ENPO Leader	Y.H. Hui	3465 2888	3465 2899
	IEC	Tony Cheng	3465 2888	3465 2899
Contractor (Gammon Construction Limited)	Environmental Manager	Brian Kam	3520 0387	3520 0486
	Environmental Officer	Roy Leung	3520 0387	3520 0486
	24-hour Complaint Hotline		9738 4332	
ET (ERM-HK)	ET Leader	Jovy Tam	2271 3113	2723 5660

## 1.4 SUMMARY OF CONSTRUCTION WORKS

The construction phase of the Contract commenced on 31 October 2013. The three-month rolling construction programme is shown in *Appendix B*.

As informed by the Contractor, details of the major works carried out in this reporting period are listed below:

### *Marine-based Works*

- Marine piling platform installation;
- Preparation works for marine piling at Viaduct B;
- Survey tower erection;
- Construction of rockfill platform at Viaduct D landing; and
- Additional marine ground investigation (GI) and laboratory testing.

### *Land-based Works*

- Satellite container offices erection along seawall;

- Fence installation and relocation of Area 2, Viaduct A, B, C & D;
- Land Piling at Viaduct B;
- Piling platform installation for Viaducts B, D & E; and
- Additional land ground investigation (GI), trial pits & laboratory testing.

The general layout plan of the site showing the detailed works areas is shown in *Figures 1.1 to 1.12*.

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

Key

Site Boundary

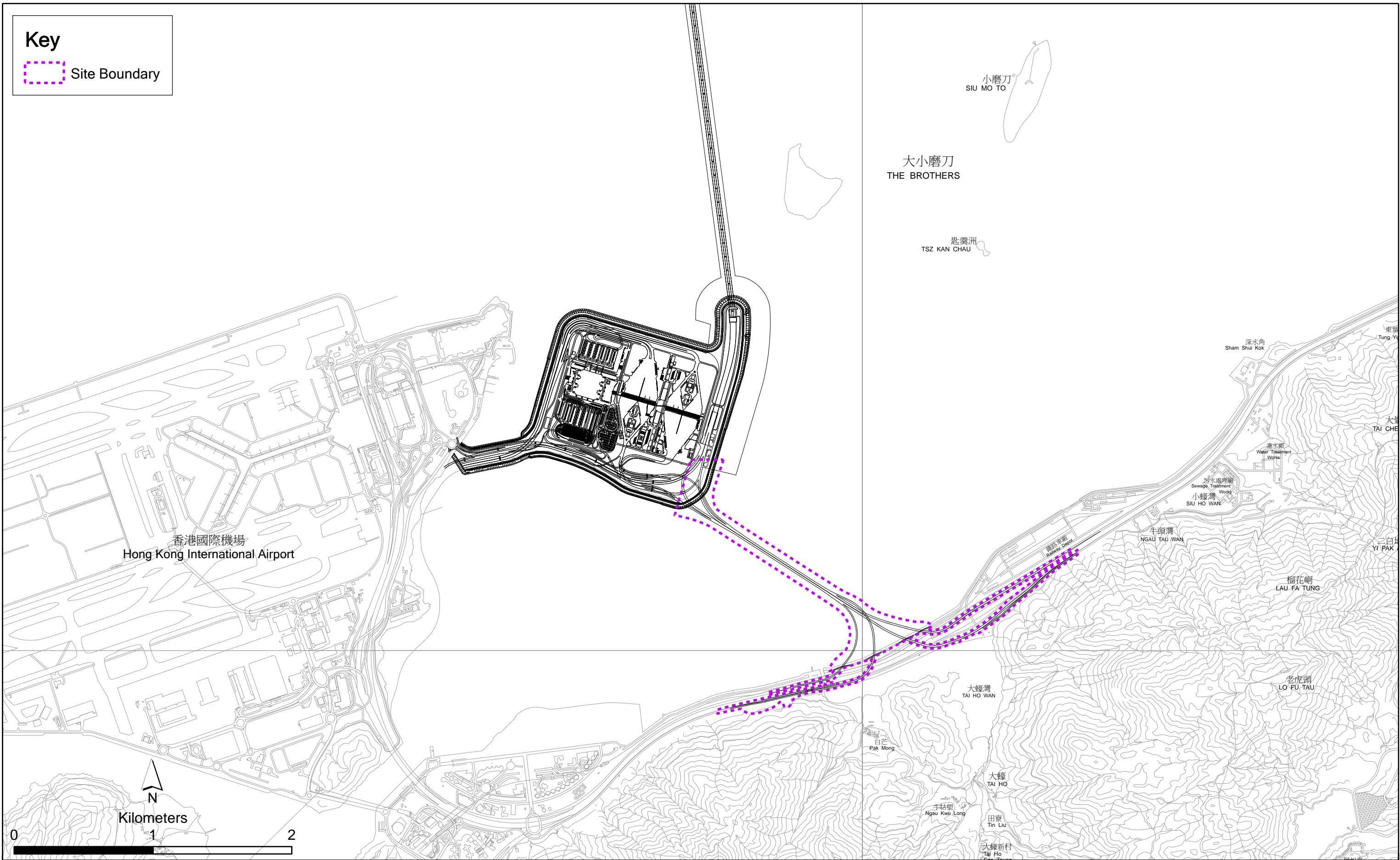


Figure 1.1

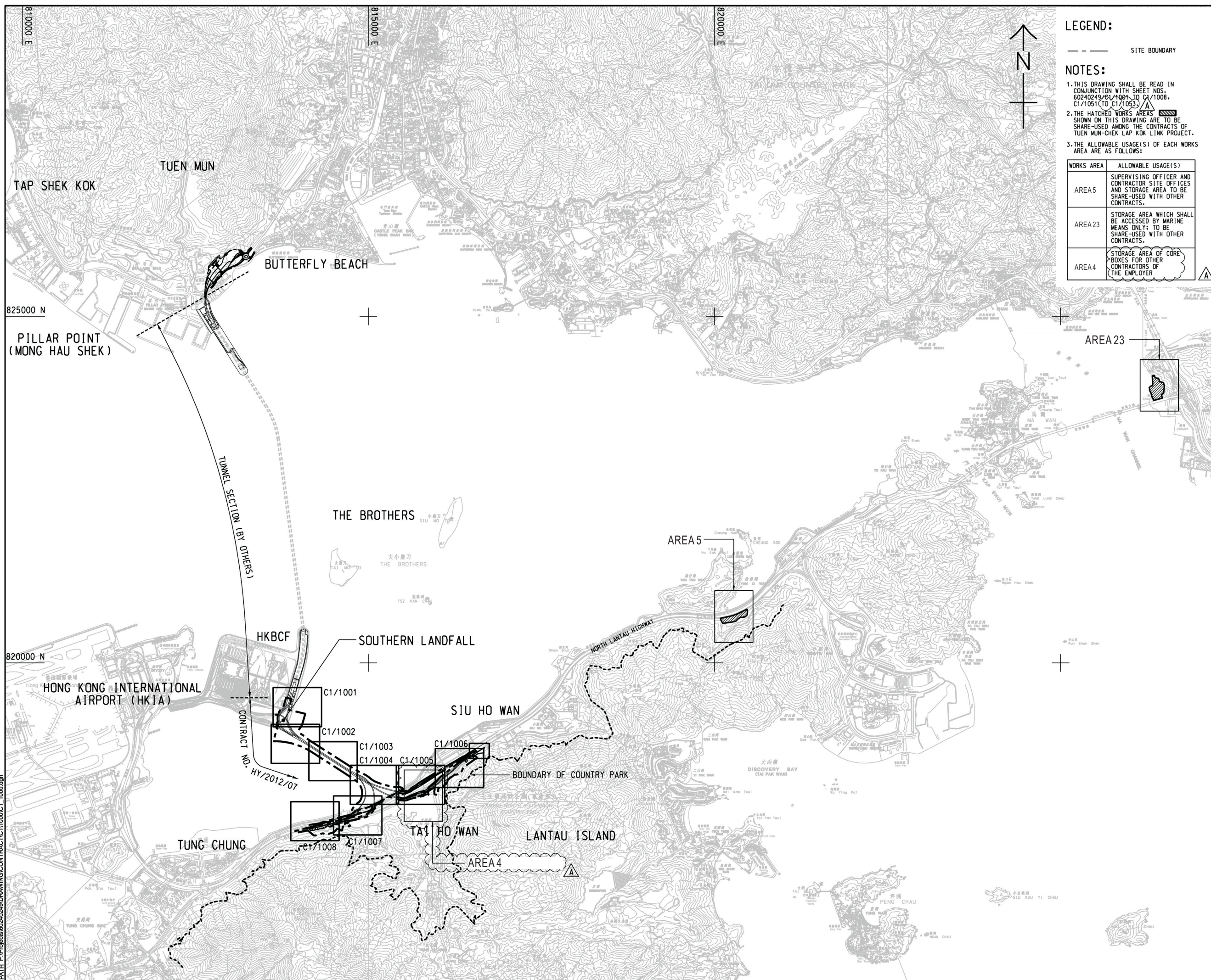
General Layout Plan of the Project

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Date: 6/12/2013

Environmental  
Resources  
Management



Plot File by: LIUJ3 2012/11/15  
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 Project Management Initials: Designer: SLYY Checked: PLCK Approved: CWN ISO A1 594mm x 841mm



**LEGEND:**

--- SITE BOUNDARY

**NOTES:**

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH SHEET NOS. 60240249/61/1001 TO C1/1008, C1/1051 (TO C1/1053).
2. THE HATCHED WORKS AREAS SHOWN ON THIS DRAWING ARE TO BE SHARE-USED AMONG THE CONTRACTS OF TUEN MUN-CHEK LAP KOK LINK PROJECT.
3. THE ALLOWABLE USAGE(S) OF EACH WORKS AREA ARE AS FOLLOWS:

WORKS AREA	ALLOWABLE USAGE(S)
AREA5	SUPERVISING OFFICER AND CONTRACTOR SITE OFFICES AND STORAGE AREA TO BE SHARE-USED WITH OTHER CONTRACTS.
AREA23	STORAGE AREA WHICH SHALL BE ACCESSED BY MARINE MEANS ONLY; TO BE SHARE-USED WITH OTHER CONTRACTS.
AREA4	STORAGE AREA OF CORE BOXES FOR OTHER CONTRACTORS OF THE EMPLOYER



**PROJECT**  
 項目  
**TUEN MUN - CHEK LAP KOK LINK**

**CONTRACT TITLE**  
 TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

**CLIENT**  
 業主  
**HIGHWAYS DEPARTMENT**  
 港珠澳大橋香港工程管理有限公司  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**CONSULTANT**  
 工程顧問公司  
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**Fig1.2**

**ISSUE/REVISION**

I/R	DATE	DESCRIPTION	CHK
A	NOV. 12	TENDER ADDENDUM NO.1	CWY
-	OCT. 12	TENDER DRAWING	CWN

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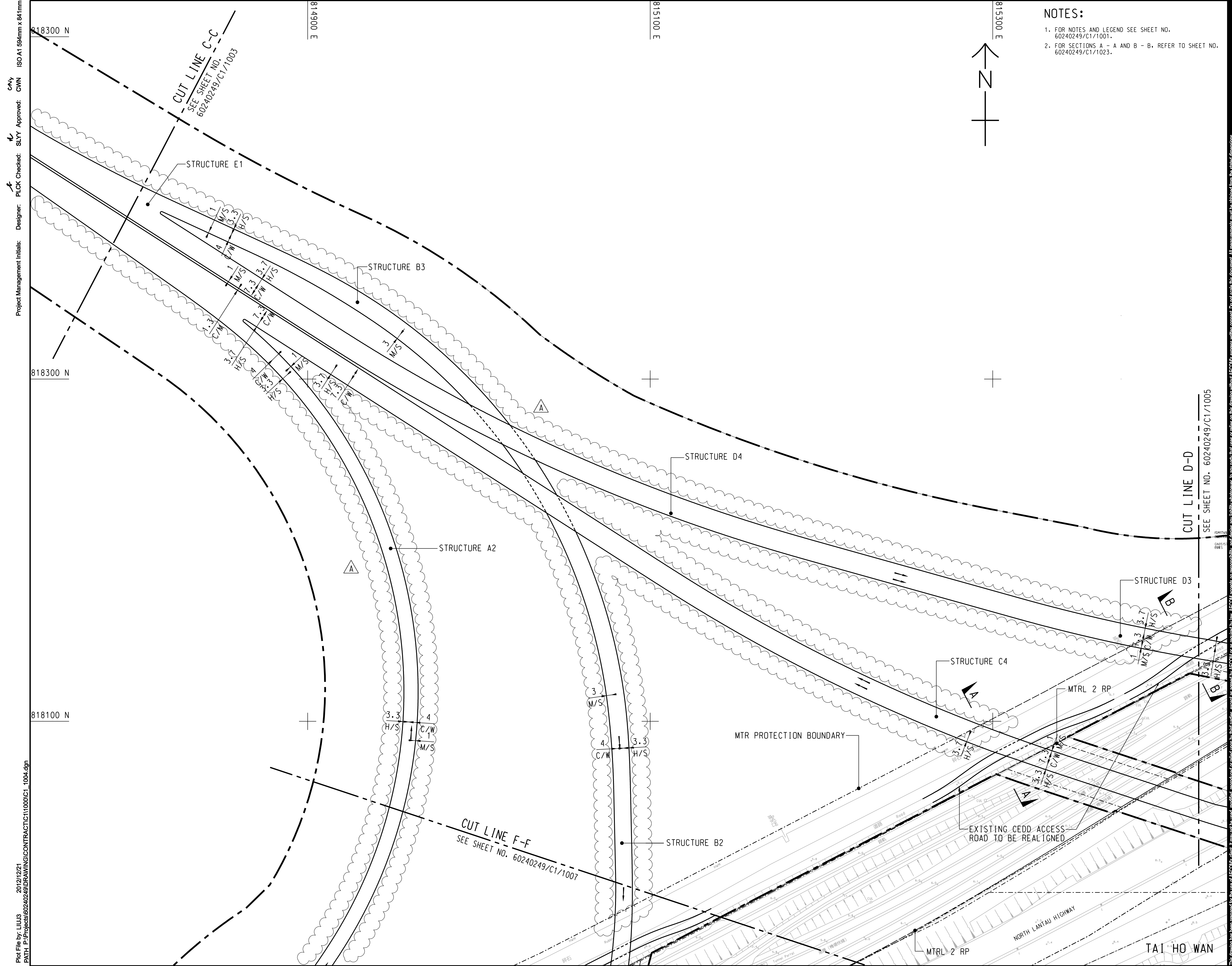
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**PROJECT NO.**      **CONTRACT NO.**  
 項目編號      合約編號  
 60240249      HY/2012/07

**SHEET TITLE**  
 圖紙名稱  
 LOCATION PLAN AND KEY PLAN

**SHEET NUMBER**  
 圖紙編號  
 60240249/C1/1000A

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**NOTES:**  
 1. FOR NOTES AND LEGEND SEE SHEET NO. 60240249/C1/1001.  
 2. FOR SECTIONS A - A AND B - B, REFER TO SHEET NO. 60240249/C1/1023.

**AECOM**

**PROJECT**  
 項目  
**TUEN MUN - CHEK LAP KOK LINK**

**CONTRACT TITLE**  
 TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

**CLIENT**  
 業主  
**HIGHWAYS DEPARTMENT**  
 港務橋樑及道路工程處  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**CONSULTANT**  
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**Fig1.3**

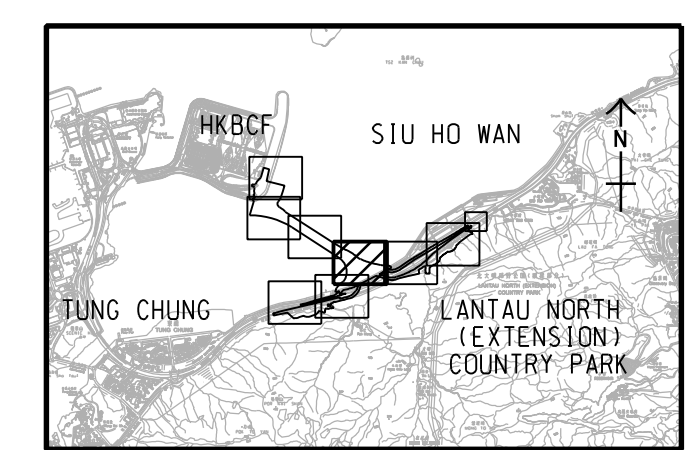
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**PROJECT NO.**  
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**CONTRACT NO.**  
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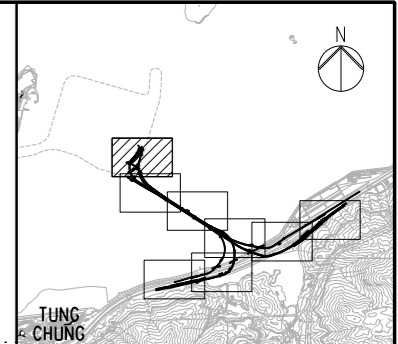
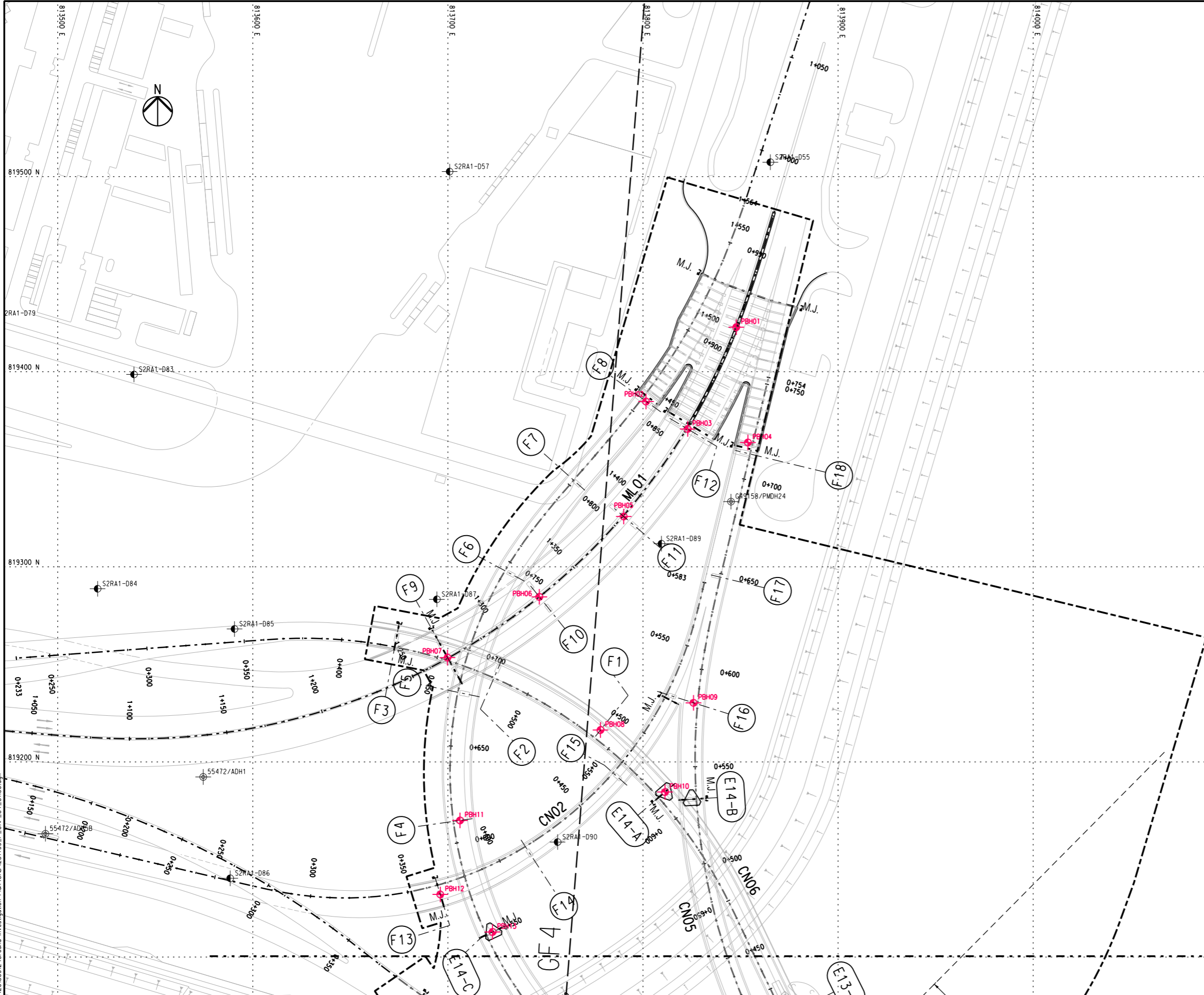
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SHEET 4 OF 8

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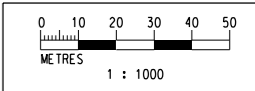


**KEY PLAN**

**NOTES**  
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    - ⊕ BOREHOLE BY GCL CONTRACT HY/2012/04
    - ⊕ BOREHOLE BY GCL CONTRACT NL8/97
    - ⊕ BOREHOLE BY GCL CONTRACT HY/2009/23
    - ⊕ TRIAL PIT BY GCL CONTRACT HY/2012/04
    - SLOPE STRIPPING BY GCL CONTRACT HY/2012/04
  - PROPOSED G.I. STATIONS :
    - ⊕ PBH01 PROPOSED BOREHOLE
    - ⊕ TP01 PROPOSED TRIAL PIT
    - ⊕ CH01 PROPOSED COREHOLE
    - SS01 SS02 PROPOSED SLOPE STRIPPING

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C	SUBMISSION	RC	09/13					DS	DOP
								Scale	
								1:1000 @ A1 / 1:2000 @ A3	

Client  
 路政署  
 HIGHWAYS DEPARTMENT  
 港珠澳大橋香港工程管理局  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

Supervising Officer  
**AECOM**

Project Title  
 Contract No. HY/2012/07  
 Tuen Mun - Chek Lap Kok Link  
 Southern Connection Viaduct Section

Contractor  
**Gammon**

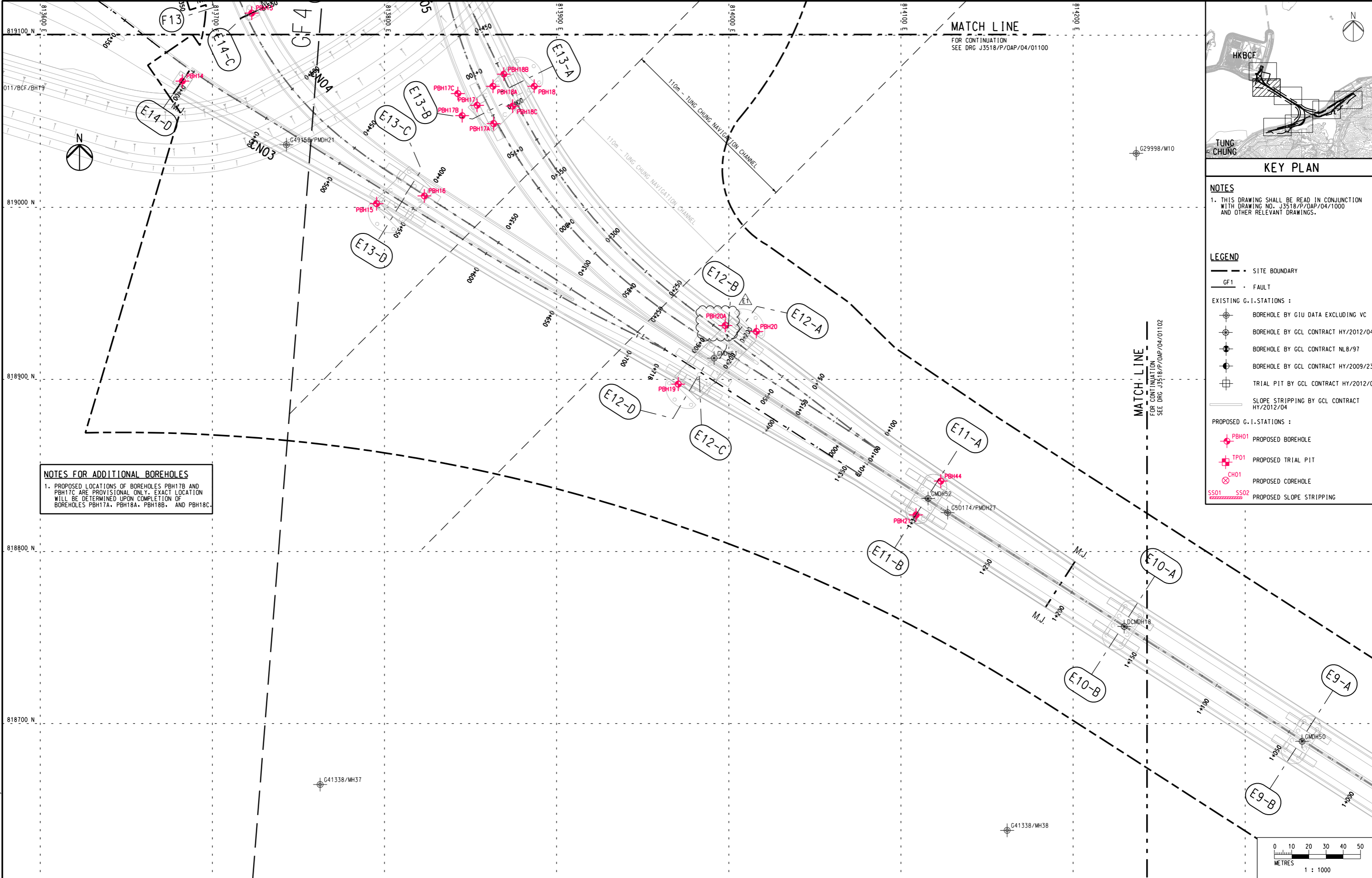
Drawing title  
 PROPOSED GROUND INVESTIGATION PLAN  
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Originator  
**ARUP**

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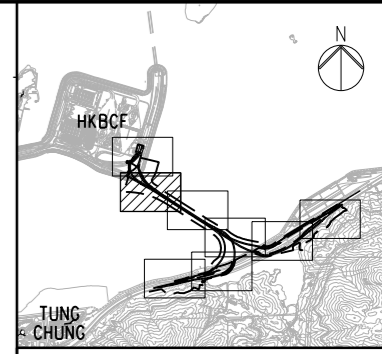


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MATCH LINE

FOR CONTINUATION  
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KEY PLAN

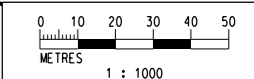
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**LEGEND**

- - - SITE BOUNDARY
- GF1 FAULT
- EXISTING G.I. STATIONS:
  - ⊙ BOREHOLE BY GIU DATA EXCLUDING VC
  - ⊙ BOREHOLE BY GCL CONTRACT HY/2012/04
  - ⊙ BOREHOLE BY GCL CONTRACT NLB/97
  - ⊙ BOREHOLE BY GCL CONTRACT HY/2009/23
  - ⊙ TRIAL PIT BY GCL CONTRACT HY/2012/04
  - SLOPE STRIPPING BY GCL CONTRACT HY/2012/04
- PROPOSED G.I. STATIONS:
  - ⊙ PBH01 PROPOSED BOREHOLE
  - ⊙ TP01 PROPOSED TRIAL PIT
  - ⊙ CH01 PROPOSED COREHOLE
  - SS01 SS02 PROPOSED SLOPE STRIPPING

**NOTES FOR ADDITIONAL BOREHOLES**  
1. PROPOSED LOCATIONS OF BOREHOLES PBH17B AND PBH17C ARE PROVISIONAL ONLY. EXACT LOCATION WILL BE DETERMINED UPON COMPLETION OF BOREHOLES PBH17A, PBH18A, PBH18B, AND PBH18C.

MATCH LINE  
FOR CONTINUATION  
SEE DRG J3518/P/OAP/04/01102



Printed by : 05.11.13  
J:\231499\ARUP\GEO\231499\_P\_OAP\_04\_01101.dgn

Rev	Description	By	Date	Rev	Description	By	Date	Drawn	Date	Client
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B	SUBMISSION	RC	07/13					Checked	Approved	
C	SUBMISSION	RC	09/13					DS	DOP	Supervising Officer
D	SUBMISSION	RC	10/13					Scale	1:1000 @ A1 / 1:2000 @ A3	Contractor
E1	FOR INTERNAL REVIEW	RC	11/13							Originator

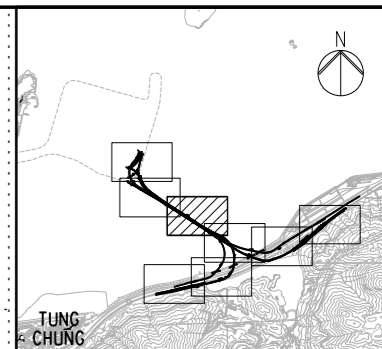
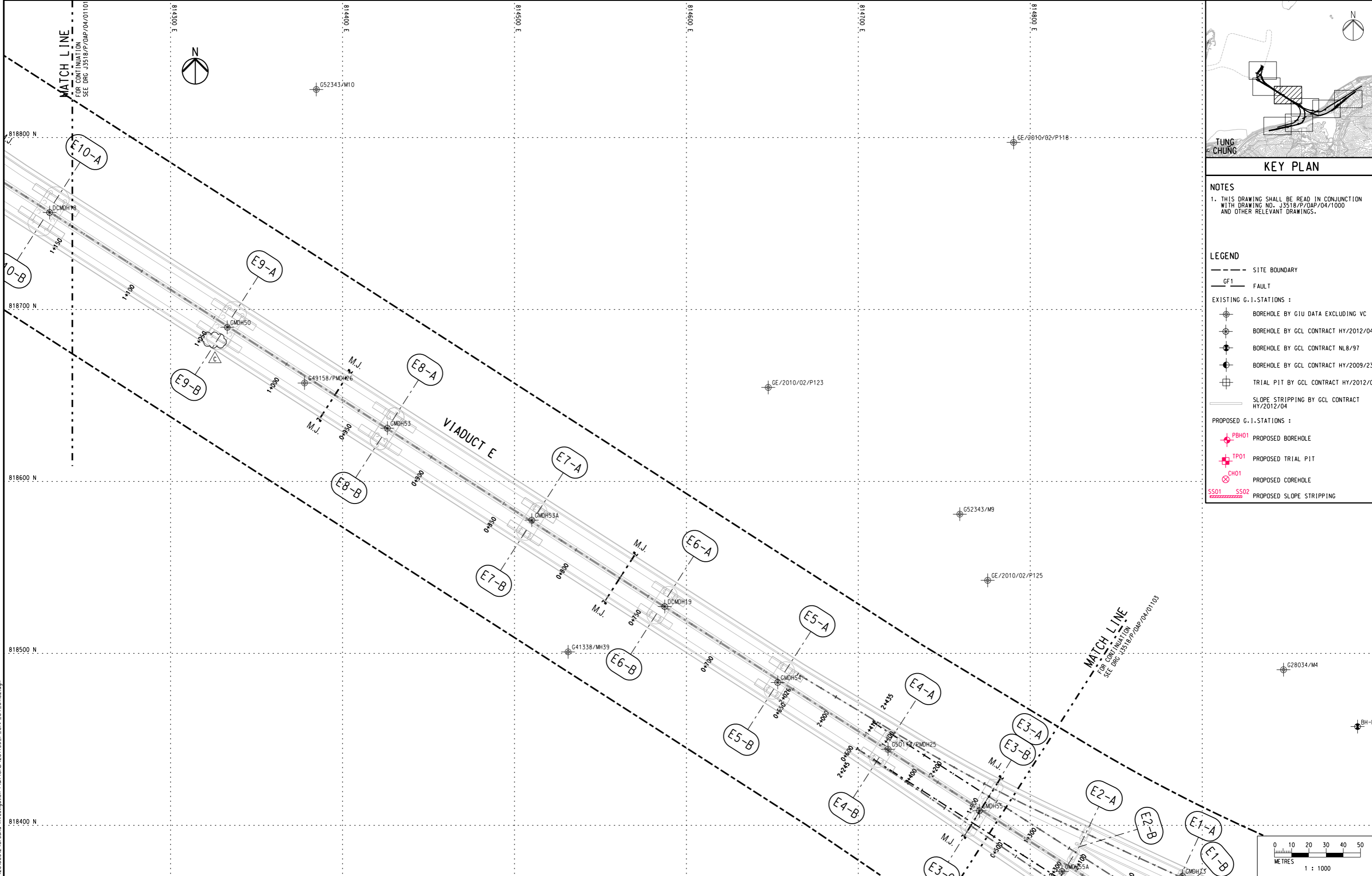
Client  
**路政署  
HIGHWAYS DEPARTMENT**  
香港大橋香港工程處  
Hong Kong - Zhuhai - Macao Bridge  
Hong Kong Project Management Office

Project Title  
Contract No. HY/2012/07  
Tuen Mun - Chek Lap Kok Link  
Southern Connection Viaduct Section

Supervising Officer: **AECOM**  
Contractor: **Gammon**  
Originator: **ARUP**

Drawing title  
PROPOSED GROUND INVESTIGATION PLAN  
(2)  
**Fig 1.5**  
Drawing no. J3518/P/OAP/04/01101 Rev. E1

DO NOT SCALE DRAWING. CHECK ALL DIMENSIONS ON SITE.



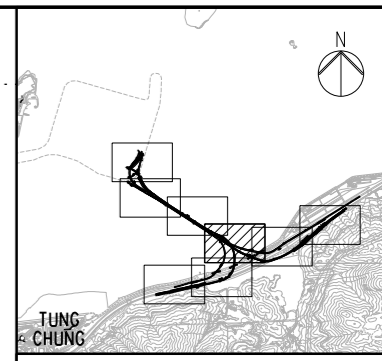
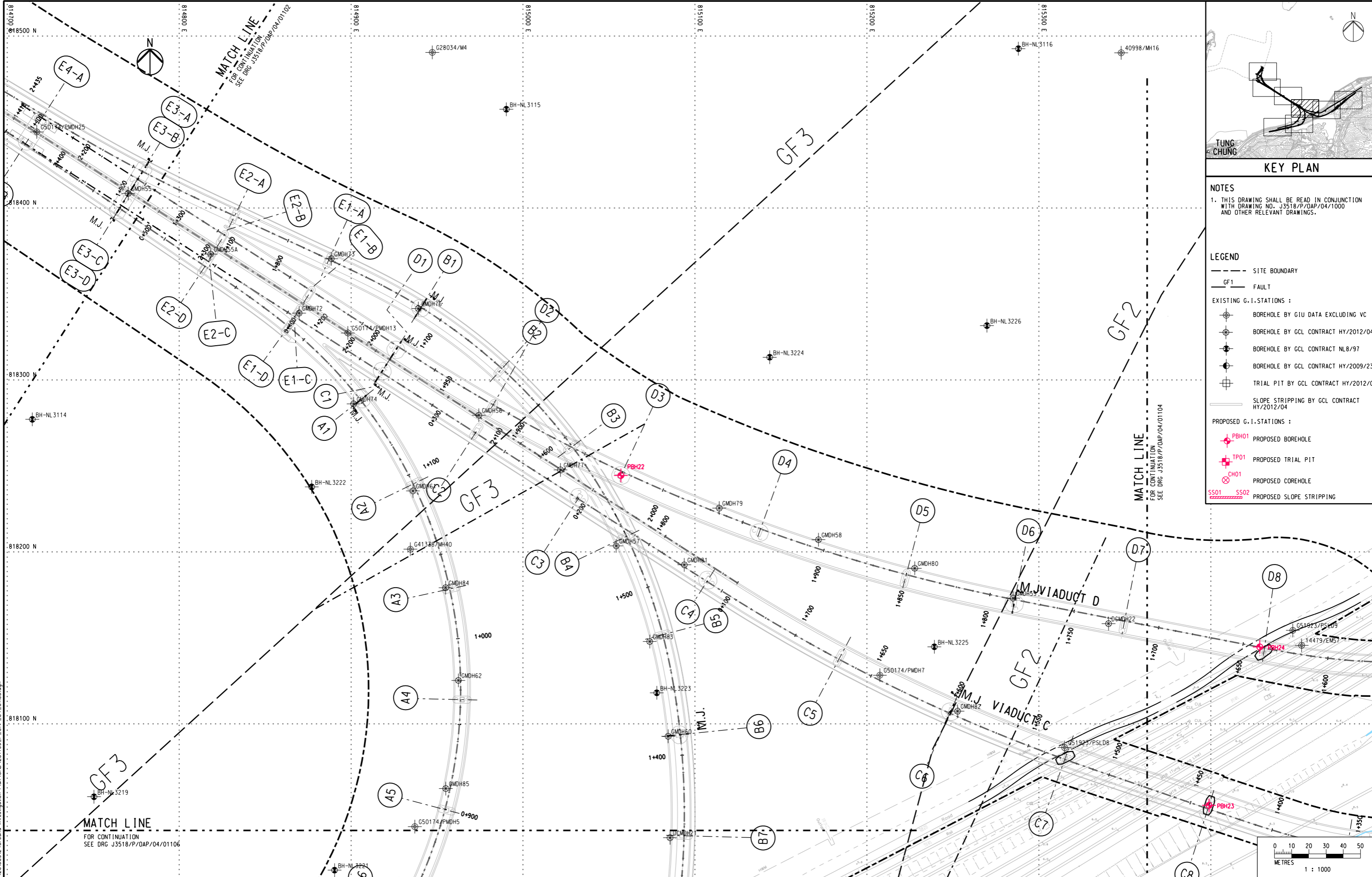
- KEY PLAN**
- NOTES**
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NO. J3518/P/OAP/04/1000 AND OTHER RELEVANT DRAWINGS.
- LEGEND**
- SITE BOUNDARY
  - GF1 FAULT
- EXISTING G.I. STATIONS :**
- ⊕ BOREHOLE BY GIU DATA EXCLUDING VC
  - ⊕ BOREHOLE BY GCL CONTRACT HY/2012/04
  - ⊕ BOREHOLE BY GCL CONTRACT NL8/97
  - ⊕ BOREHOLE BY GCL CONTRACT HY/2009/23
  - ⊕ TRIAL PIT BY GCL CONTRACT HY/2012/04
  - SLOPE STRIPPING BY GCL CONTRACT HY/2012/04
- PROPOSED G.I. STATIONS :**
- ⊕ PBH01 PROPOSED BOREHOLE
  - ⊕ TP01 PROPOSED TRIAL PIT
  - ⊕ CH01 PROPOSED COREHOLE
  - SS01 SS02 PROPOSED SLOPE STRIPPING

Printed by : 12/9/2013  
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Rev	Description	By	Date	Rev	Description	By	Date	Drawn	Date
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B	SUBMISSION	RC	07/13					Checked	Approved
C	SUBMISSION	RC	09/13					DS	DOP
								Scale	
								1:1000 @ A1 / 1:2000 @ A3	

Client <b>路政署</b> <b>HIGHWAYS DEPARTMENT</b> 港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office	Project Title <b>Contract No. HY/2012/07</b> <b>Tuen Mun - Chek Lap Kok Link</b> <b>Southern Connection Viaduct Section</b>	Drawing title <b>PROPOSED GROUND INVESTIGATION PLAN</b> <b>(3)</b> <b>Fig 1.6</b> Drawing no. <b>J3518/P/OAP/04/01102</b>
Supervising Officer <b>AECOM</b>	Contractor <b>Gammon</b>	Originator <b>ARUP</b>
		Rev. <b>C</b>

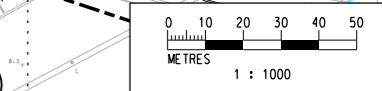
DO NOT SCALE DRAWING. CHECK ALL DIMENSIONS ON SITE.



**KEY PLAN**

**NOTES**  
 1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NO. J3518/P/OAP/04/1000 AND OTHER RELEVANT DRAWINGS.

- LEGEND**
- SITE BOUNDARY
  - GF1 FAULT
  - EXISTING G.I. STATIONS :
    - ⊕ BOREHOLE BY GIU DATA EXCLUDING VC
    - ⊕ BOREHOLE BY GCL CONTRACT HY/2012/04
    - ⊕ BOREHOLE BY GCL CONTRACT NL8/97
    - ⊕ BOREHOLE BY GCL CONTRACT HY/2009/23
    - ⊕ TRIAL PIT BY GCL CONTRACT HY/2012/04
    - SLOPE STRIPPING BY GCL CONTRACT HY/2012/04
  - PROPOSED G.I. STATIONS :
    - ⊕ PBH01 PROPOSED BOREHOLE
    - ⊕ TP01 PROPOSED TRIAL PIT
    - ⊕ CH01 PROPOSED COREHOLE
    - SS01 SS02 PROPOSED SLOPE STRIPPING



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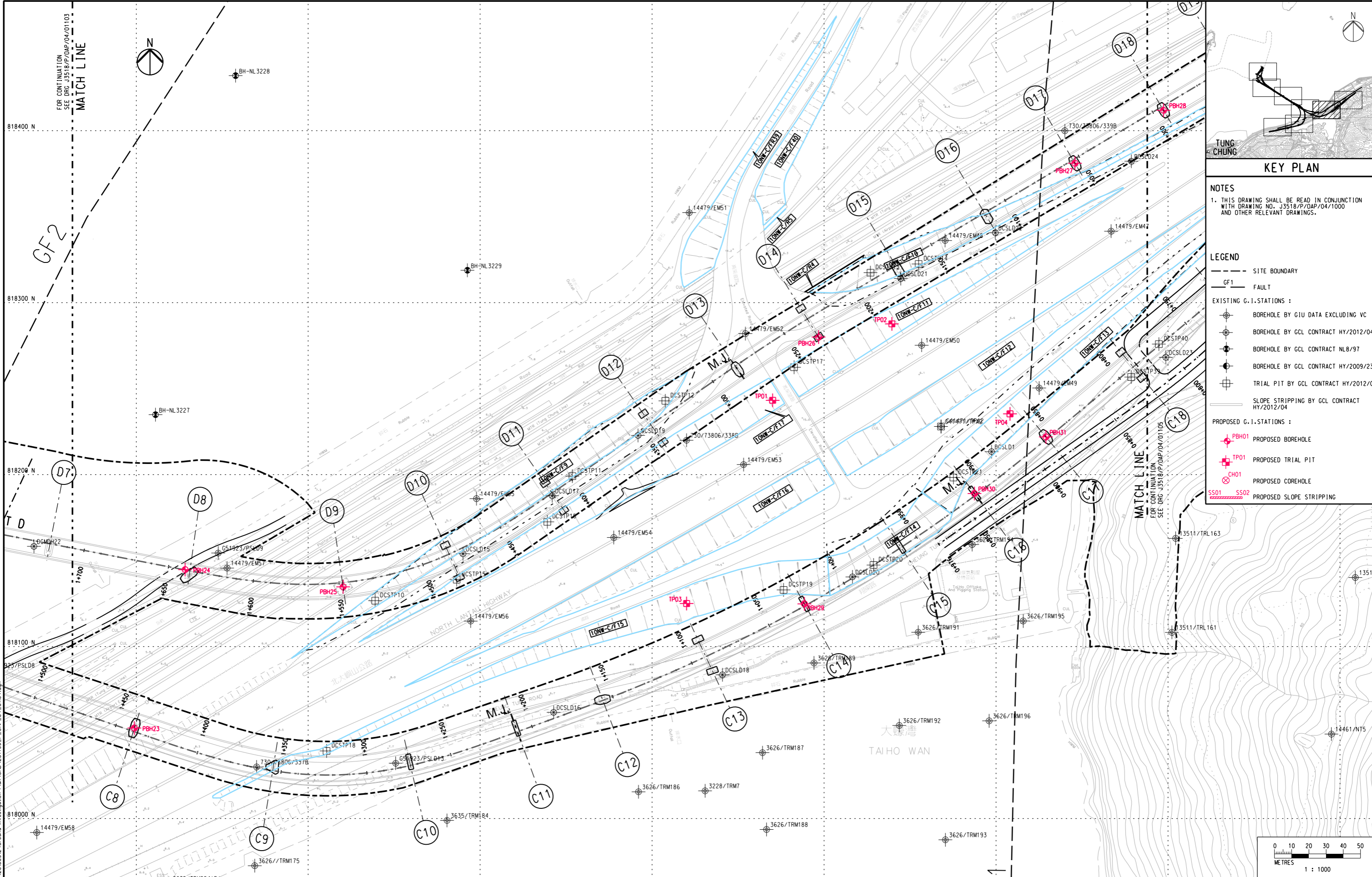
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A	SUBMISSION	RC	07/13				
B	SUBMISSION	RC	07/13				
C	SUBMISSION	RC	09/13				

Drawn	Date	Client
RL	07/13	路政署 HIGHWAYS DEPARTMENT
Checked	Date	Project Title
DS	Approved	Contract No. HY/2012/07 Tuen Mun - Chek Lap Kok Link Southern Connection Viaduct Section
Scale	1:1000 @ A1 / 1:2000 @ A3	Supervising Officer

Drawing title <b>PROPOSED GROUND INVESTIGATION PLAN (4)</b> <b>Fig 1.7</b> Drawing no. J3518/P/OAP/04/01103 Rev. C		

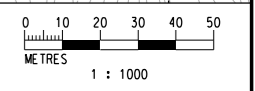
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**KEY PLAN**

**NOTES**  
 1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NO. J3518/P/OAP/04/1000 AND OTHER RELEVANT DRAWINGS.

- LEGEND**
- SITE BOUNDARY
  - GF1 FAULT
  - EXISTING G.I. STATIONS:
    - ⊕ BOREHOLE BY GIU DATA EXCLUDING VC
    - ⊕ BOREHOLE BY GCL CONTRACT HY/2012/04
    - ⊕ BOREHOLE BY GCL CONTRACT NL8/97
    - ⊕ BOREHOLE BY GCL CONTRACT HY/2009/23
    - ⊕ TRIAL PIT BY GCL CONTRACT HY/2012/04
    - SLOPE STRIPPING BY GCL CONTRACT HY/2012/04
  - PROPOSED G.I. STATIONS:
    - ⊕ PBH01 PROPOSED BOREHOLE
    - ⊕ TP01 PROPOSED TRIAL PIT
    - ⊕ CH01 PROPOSED COREHOLE
    - SS01 SS02 PROPOSED SLOPE STRIPPING



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 Filename : J:\231499\RECORD\20130912 Ground Investigation Plan\CAOV\231499\_P\_OAP\_04\_01104.dgn

Rev	Description	By	Date	Rev	Description	By	Date	Drawn	Date
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B	SUBMISSION	RC	07/13					Checked	Approved
C	SUBMISSION	RC	09/13					DS	DOP
								Scale	
									1:1000 @ A1 / 1:2000 @ A3

Client  
**路政署**  
**HIGHWAYS DEPARTMENT**  
 港珠澳大橋香港工程管理局  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

Project Title  
**Contract No. HY/2012/07**  
**Tuen Mun - Chek Lap Kok Link**  
**Southern Connection Viaduct Section**

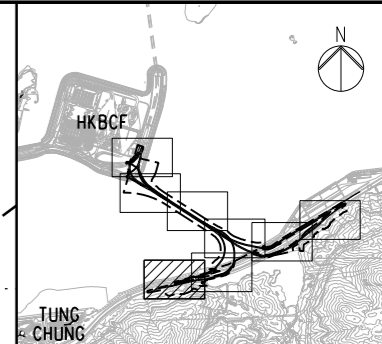
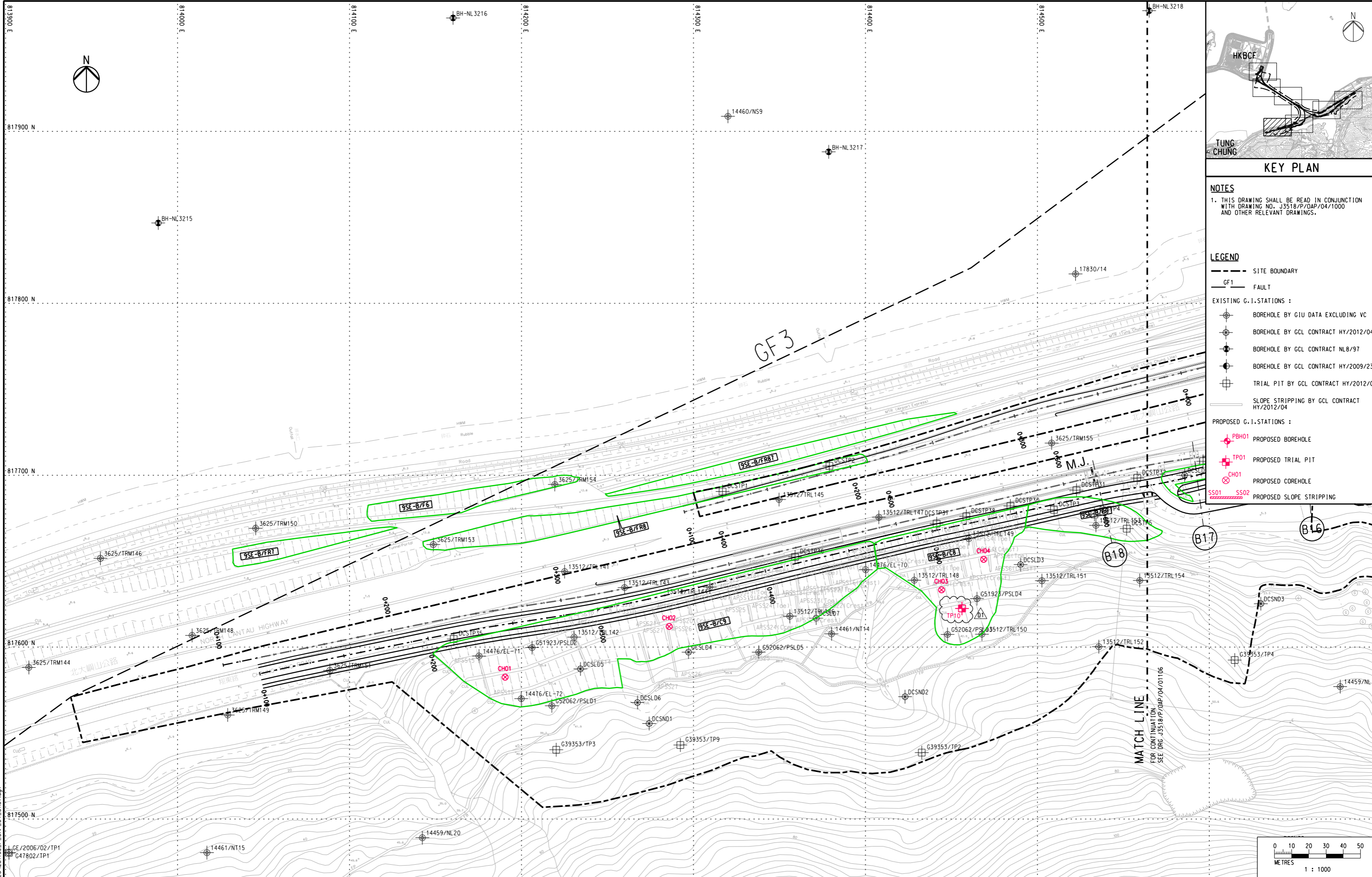
Drawing title  
**PROPOSED GROUND INVESTIGATION PLAN**  
**(5)**  
**Fig 1.8**  
 Drawing no. **J3518/P/OAP/04/01104** Rev. **C**

Supervising Officer  
**AECOM**

Contractor  
**Gammon**

Originator  
**ARUP**

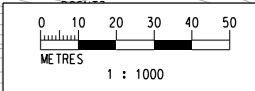
DO NOT SCALE DRAWING. CHECK ALL DIMENSIONS ON SITE.



**KEY PLAN**

**NOTES**  
 1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NO. J3518/P/OAP/04/1000 AND OTHER RELEVANT DRAWINGS.

- LEGEND**
- SITE BOUNDARY
  - GF1 FAULT
  - EXISTING G.I. STATIONS :
    - ⊕ BOREHOLE BY GIU DATA EXCLUDING VC
    - ⊕ BOREHOLE BY GCL CONTRACT HY/2012/04
    - ⊕ BOREHOLE BY GCL CONTRACT NL8/97
    - ⊕ BOREHOLE BY GCL CONTRACT HY/2009/23
    - ⊕ TRIAL PIT BY GCL CONTRACT HY/2012/04
    - SLOPE STRIPPING BY GCL CONTRACT HY/2012/04
  - PROPOSED G.I. STATIONS :
    - ⊕ PBH01 PROPOSED BOREHOLE
    - ⊕ TP01 PROPOSED TRIAL PIT
    - ⊕ CH01 PROPOSED COREHOLE
    - SS01 SS02 PROPOSED SLOPE STRIPPING



Printed by : 07/11/2013  
 Filename : J:\231499\ARUP\_GEO\231499\_P\_OAP\_04\_01107.dgn

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A	SUBMISSION	RC	07/13					RL	07/13	Client <b>HIGHWAYS DEPARTMENT</b> 路政署 港珠澳大橋香港工程管理局 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office
B	SUBMISSION	RC	07/13					Checked	Approved	
C	SUBMISSION	RC	09/13					DS	DOP	
D1	FOR INTERNAL REVIEW	RC	11/13					Scale	1:1000 @ A1 / 1:2000 @ A3	

Project Title  
**Contract No. HY/2012/07**  
**Tuen Mun - Chek Lap Kok Link**  
**Southern Connection Viaduct Section**

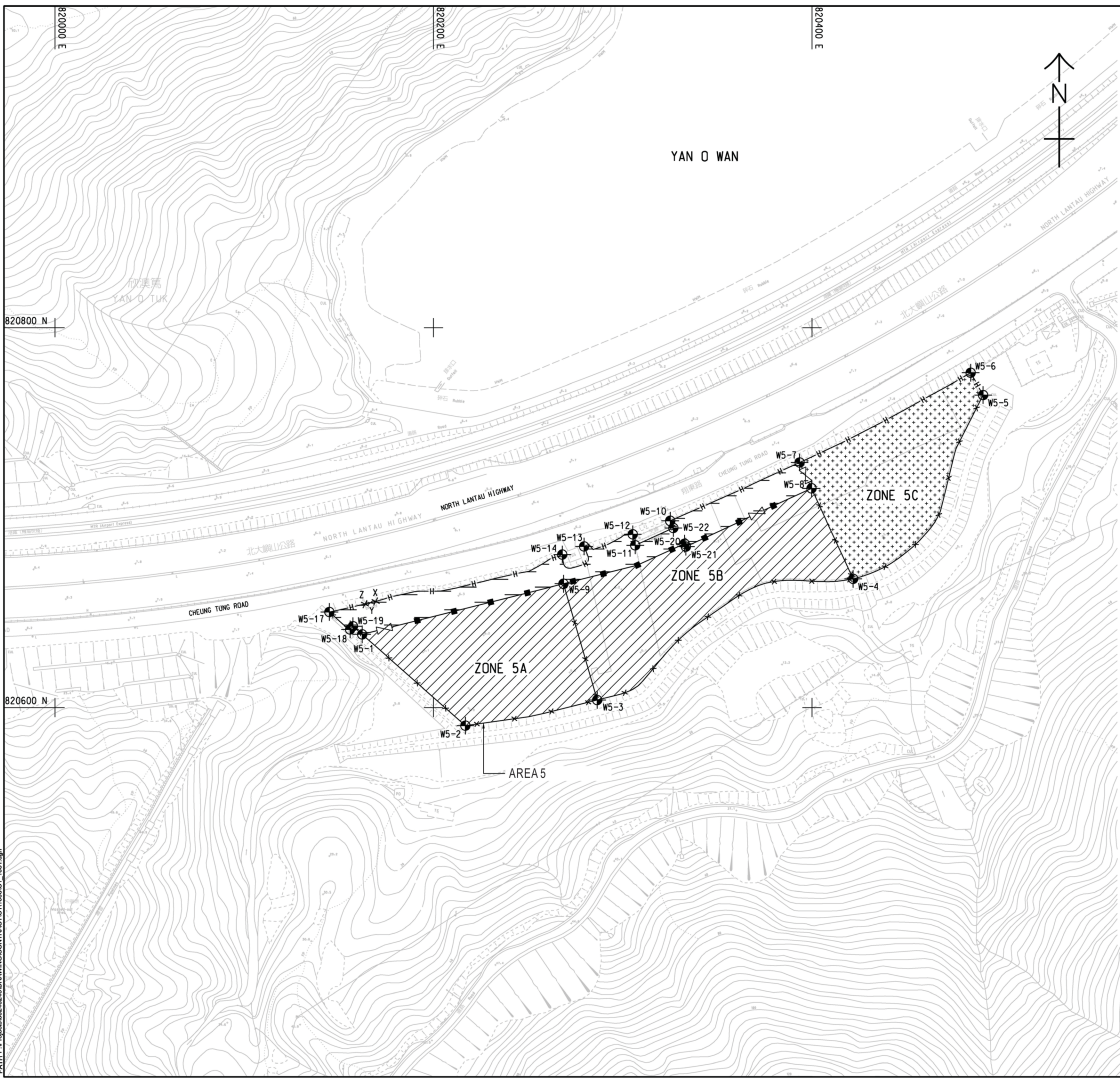
Supervising Officer  
**AECOM**

Contractor  
**Gammon**

Originator  
**ARUP**

Drawing title  
**PROPOSED GROUND INVESTIGATION PLAN**  
**(6)**  
**Fig 1.9**  
 Drawing no. **J3518/P/OAP/04/01107** Rev. **D1**

Plot File by: L1UJ3 2012-10-24  
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 Project Management Initials: Designer: PLCK Checked: SLYY Approved: CWN  
 ISO A1 594mm x 841mm



**NOTES:**

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE WORKS AREA KEY PLAN IN SHEET NO. 60240249/C1/1000.
- THE SETTING OUT INFORMATION AND WORKS AREA CONDITIONS SHOWN IN THIS DRAWING ARE FOR REFERENCE ONLY. THE WORKS AREA BOUNDARY SHALL BE IN ACCORDANCE WITH THE ENGINEERING CONDITIONS FOR TEMPORARY GOVERNMENT LAND ALLOCATION NO. T15 619. IN CASE OF DISCREPANCY BETWEEN THE BOUNDARY SHOWN ON THIS DRAWING AND THE BOUNDARY INDICATED ON THE ENGINEERING CONDITIONS, THE LATTER SHALL PREVAIL.
- DEMARICATION OF THE WORKS AREA SHALL BE DETERMINED ON SITE.
- REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NOS. H6110 AND H6111 FOR DETAILS OF HOARDING.
- REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NOS. H6121 AND H6122 FOR DETAILS OF CHAIN LINK FENCE.
- REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NO. H6121 FOR DETAILS OF GATE.
- CHAIN LINK FENCE SHALL BE ERRECTED ALONG THE WORKS AREA BOUNDARY. THE ALIGNMENT AND EXTENT OF CHAIN LINK FENCE SHOWN ARE INDICATIVE ONLY AND SHALL BE CONFIRMED BY THE SUPERVISING OFFICER.
- THE LOCATION AND WIDTH OF GATE SHOWN ARE INDICATIVE ONLY AND SHALL BE CONFIRMED BY THE SUPERVISING OFFICER.
- NO STRUCTURES SHALL BE ERRECTED OTHER THAN SUCH STRUCTURES NOT EXCEEDING TWO STOREYS IN HEIGHT, WHICH ARE APPROVED BY THE DISTRICT LANDS OFFICER AS BEING APPROPRIATE FOR THE USE OF THE SITE AS A WORKS AREA.
- THE TENTATIVE OCCUPATION PERIOD SHALL BE REFERRED TO EMPLOYER'S REQUIREMENTS PART 2 AND PART 14 SECTION 1 CLAUSE 1.45A.
- THE WORKS AREAS SHOWN ON THIS DRAWING ARE TO BE SHARED AMONG THE CONTRACTS OF TM-CLKL RELATED CONTRACTS. THE AREAS HATCHED WITH [diagonal lines] ARE TENTATIVELY ALLOCATED FOR THE USE BY THIS CONTRACT.
- THE COMMON AREA SHALL BE CONCRETE PAVED BY THE CONTRACTOR.

**LEGEND:**

- [diagonal lines] WORKS AREA UNDER THIS CONTRACT
- [cross-hatch] COMMON AREA (MAINTAINED UNDER THIS CONTRACT) TO BE SHARE-USED WITH OTHER CONTRACTS
- [stippled] WORKS AREA FOR THIS CONTRACT TO BE EARLY HANDED OVER BY THE CONTRACTOR.
- [H symbol] HOARDING AND GATE (TO BE ERRECTED AND MAINTAINED UNDER THIS CONTRACT)
- [chain link symbol] CHAIN LINK FENCE AND GATE (TO BE ERRECTED AND MAINTAINED BY OTHERS)
- [chain link symbol with X] CHAIN LINK FENCE AND GATE (TO BE ERRECTED AND MAINTAINED UNDER THIS CONTRACT)

**SETTING OUT COORDINATES OF AREA 5**

POINT	COORDINATES	
	EASTING	NORTHING
W5-1	820162.308	820638.492
W5-2	820216.839	820590.455
W5-3	820286.496	820603.985
W5-4	820421.757	820667.742
W5-5	820490.425	820764.554
W5-6	820483.839	820776.180
W5-7	820393.451	820728.958
W5-8	820399.746	820715.343
W5-9	820268.674	820665.173
W5-10	820325.075	820698.276
W5-11	820306.587	820685.458
W5-12	820305.269	820691.287
W5-13	820279.580	820684.863
W5-14	820268.027	820680.572
X	820169.407	820655.859
Y	820166.601	820655.172
Z	820163.794	820654.484
W5-17	820144.957	820650.334
W5-18	820155.899	820641.093
W5-19	820157.432	820642.788
W5-20	820332.642	820686.314
W5-21	820333.350	820684.738
W5-22	820326.723	820694.608



**PROJECT**  
 項目  
**TUEN MUN - CHEK LAP KOK LINK**

**CONTRACT TITLE**  
 TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

**CLIENT**  
 業主  
 路政署  
 HONG KONG PROJECT MANAGEMENT OFFICE  
 香港路政署工程管理部  
 Hong Kong - Zhuhai - Macao Bridge  
 香港珠澳大橋

**CONSULTANT**  
 顧問公司  
 AECOM Asia Company Ltd.  
 www.aecom.com

**SUB-CONSULTANTS**  
 分判工程師公司

Fig 1.10

**ISSUE/REVISION**

NO.	DATE	DESCRIPTION	CHK.
1	OCT. 12	TENDER DRAWING	CWN

**STATUS**

修改

**SCALE** 比例  
 A1 1 : 1000  
**DIMENSION UNIT** 尺寸單位  
 METRES

**KEY PLAN**

索引圖

**PROJECT NO.** 項目編號  
 60240249  
**CONTRACT NO.** 合約編號  
 HY/2012/07

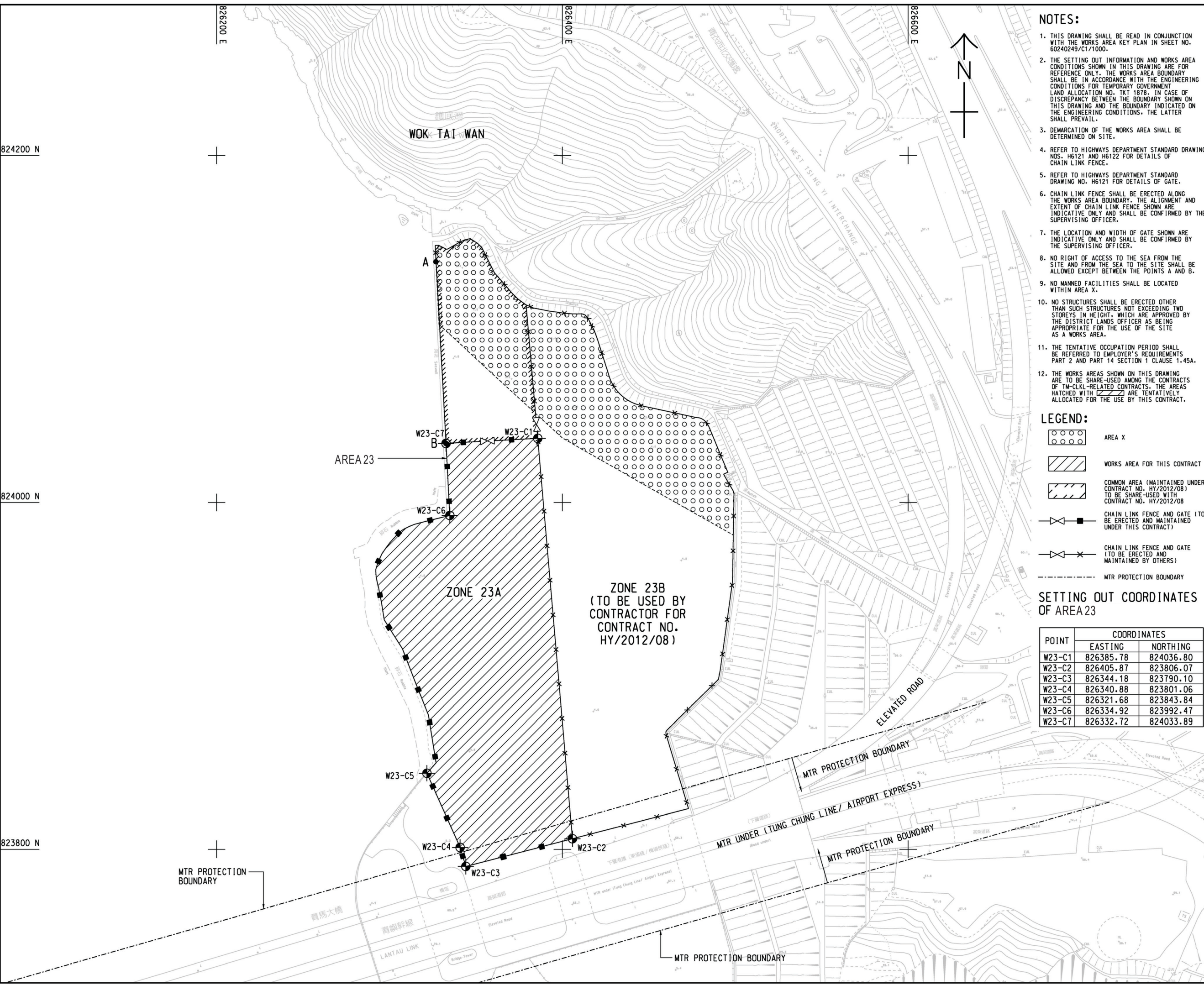
**SHEET TITLE**  
 圖紙名稱  
 WORKS AREA AND HOARDING PLAN

SHEET 1 OF 2

**SHEET NUMBER**  
 圖紙編號  
 60240249/C1/1051

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Plot File by: LULIS 2012-10-24  
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 Project Management Initials: Designer: PLCK Checked: SLYY Approved: CWN ISO A1 594mm x 841mm



**NOTES:**

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE WORKS AREA KEY PLAN IN SHEET NO. 60240249/C1/1000.
2. THE SETTING OUT INFORMATION AND WORKS AREA CONDITIONS SHOWN IN THIS DRAWING ARE FOR REFERENCE ONLY. THE WORKS AREA BOUNDARY SHALL BE IN ACCORDANCE WITH THE ENGINEERING CONDITIONS FOR TEMPORARY GOVERNMENT LAND ALLOCATION NO. TKT 1878. IN CASE OF DISCREPANCY BETWEEN THE BOUNDARY SHOWN ON THIS DRAWING AND THE BOUNDARY INDICATED ON THE ENGINEERING CONDITIONS, THE LATTER SHALL PREVAIL.
3. DEMARCATION OF THE WORKS AREA SHALL BE DETERMINED ON SITE.
4. REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NOS. H6121 AND H6122 FOR DETAILS OF CHAIN LINK FENCE.
5. REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NO. H6121 FOR DETAILS OF GATE.
6. CHAIN LINK FENCE SHALL BE ERECTED ALONG THE WORKS AREA BOUNDARY. THE ALIGNMENT AND EXTENT OF CHAIN LINK FENCE SHOWN ARE INDICATIVE ONLY AND SHALL BE CONFIRMED BY THE SUPERVISING OFFICER.
7. THE LOCATION AND WIDTH OF GATE SHOWN ARE INDICATIVE ONLY AND SHALL BE CONFIRMED BY THE SUPERVISING OFFICER.
8. NO RIGHT OF ACCESS TO THE SEA FROM THE SITE AND FROM THE SEA TO THE SITE SHALL BE ALLOWED EXCEPT BETWEEN THE POINTS A AND B.
9. NO MANNED FACILITIES SHALL BE LOCATED WITHIN AREA X.
10. NO STRUCTURES SHALL BE ERECTED OTHER THAN SUCH STRUCTURES NOT EXCEEDING TWO STOREYS IN HEIGHT, WHICH ARE APPROVED BY THE DISTRICT LANDS OFFICER AS BEING APPROPRIATE FOR THE USE OF THE SITE AS A WORKS AREA.
11. THE TENTATIVE OCCUPATION PERIOD SHALL BE REFERRED TO EMPLOYER'S REQUIREMENTS PART 2 AND PART 14 SECTION 1 CLAUSE 1.45A.
12. THE WORKS AREAS SHOWN ON THIS DRAWING ARE TO BE SHARE-USED AMONG THE CONTRACTS OF TM-CLKL-RELATED CONTRACTS. THE AREAS HATCHED WITH ARE TENTATIVELY ALLOCATED FOR THE USE BY THIS CONTRACT.

**LEGEND:**

- AREA X
- WORKS AREA FOR THIS CONTRACT
- COMMON AREA (MAINTAINED UNDER CONTRACT NO. HY/2012/08) TO BE SHARE-USED WITH CONTRACT NO. HY/2012/08
- CHAIN LINK FENCE AND GATE (TO BE ERECTED AND MAINTAINED UNDER THIS CONTRACT)
- CHAIN LINK FENCE AND GATE (TO BE ERECTED AND MAINTAINED BY OTHERS)
- MTR PROTECTION BOUNDARY

**SETTING OUT COORDINATES OF AREA 23**

POINT	COORDINATES	
	EASTING	NORTHING
W23-C1	826385.78	824036.80
W23-C2	826405.87	823806.07
W23-C3	826344.18	823790.10
W23-C4	826340.88	823801.06
W23-C5	826321.68	823843.84
W23-C6	826334.92	823992.47
W23-C7	826332.72	824033.89

**PROJECT**  
項目

**TUEN MUN - CHEK LAP KOK LINK**

**CONTRACT TITLE**  
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

**CLIENT**  
業主

路政署  
**HIGHWAYS DEPARTMENT**  
港務處大橋及橋樑工程管理處  
Hong Kong - Zhuhai - Macao Bridge  
Hong Kong Project Management Office

**CONSULTANT**  
工程顧問公司

AECOM Asia Company Ltd.  
www.aecom.com

**SUB-CONSULTANTS**  
分判工程顧問公司

---

Fig 1.11

**ISSUE/REVISION**  
修訂

NO.	DATE	DESCRIPTION	CHK.
1	OCT. 12	TENDER DRAWING	CWN

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**STATUS**  
階段

**SCALE**  
比例

**DIMENSION UNIT**  
尺寸單位

A1 : 1000 METRES

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**KEY PLAN**  
索引圖

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**PROJECT NO.**  
項目編號

**CONTRACT NO.**  
合約編號

60240249 HY/2012/07

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**SHEET TITLE**  
圖紙名稱

WORKS AREA AND HOARDING PLAN

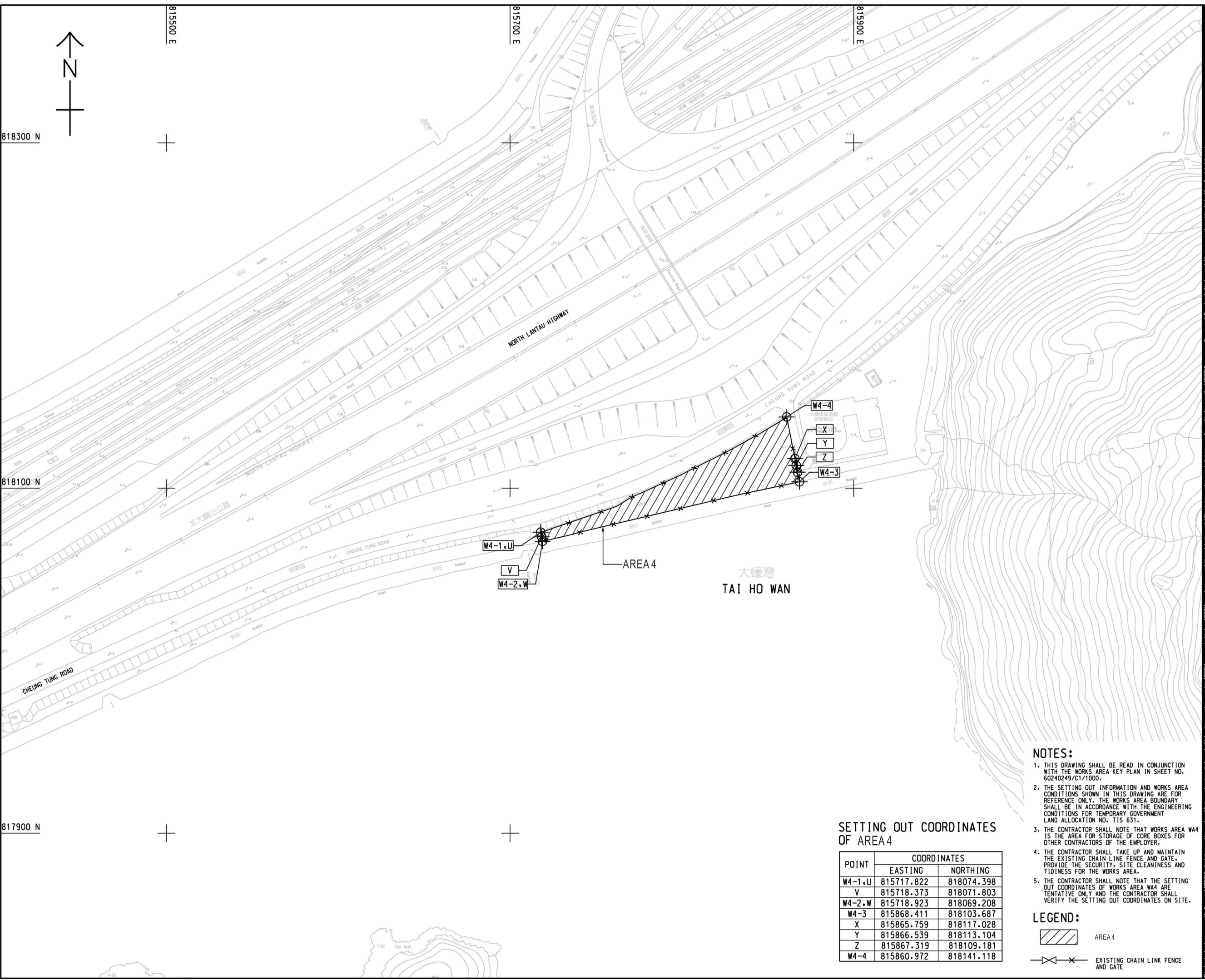
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**SHEET NUMBER**  
圖紙編號

60240249/C1/1052

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 Project Management Initials: Designer: PLCK Checked: SLYY Approved: CWN  
 ISO A1 594mm x 841mm  
 C:\AECOM



**SETTING OUT COORDINATES OF AREA 4**

POINT	COORDINATES	
	EASTING	NORTHING
W4-1, U	815717.822	818074.398
V	815718.373	818071.803
W4-2, W	815718.923	818069.208
W4-3	815868.411	818103.687
X	815865.759	818117.028
Y	815866.539	818113.104
Z	815867.319	818109.181
W4-4	815860.972	818141.118

**NOTES:**

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE WORKS AREA KEY PLAN IN SHEET NO. 60240249/C1/1000.
- THE SETTING OUT INFORMATION AND WORKS AREA CONDITIONS SHOWN IN THIS DRAWING ARE FOR REFERENCE ONLY. THE WORKS AREA BOUNDARY SHALL BE IN ACCORDANCE WITH THE ENGINEERING CONDITIONS FOR TEMPORARY GOVERNMENT LAND ALLOCATION NO. TIS 631.
- THE CONTRACTOR SHALL NOTE THAT WORKS AREA W4 IS THE AREA FOR STORAGE OF CORE BOXES FOR OTHER CONTRACTORS OF THE EMPLOYER.
- THE CONTRACTOR SHALL TAKE UP AND MAINTAIN THE EXISTING CHAIN LINK FENCE AND GATE, PROVIDE THE SECURITY, SITE CLEANLINESS AND TIDINESS FOR THE WORKS AREA.
- THE CONTRACTOR SHALL NOTE THAT THE SETTING OUT COORDINATES OF WORKS AREA W4 ARE TENTATIVE ONLY AND THE CONTRACTOR SHALL VERIFY THE SETTING OUT COORDINATES ON SITE.

**LEGEND:**

- AREA 4
- EXISTING CHAIN LINK FENCE AND GATE



**PROJECT**  
 TUEN MUN - CHEK LAP KOK LINK

**CONTRACT TITLE**  
 TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

**CLIENT**  
 路政署  
**HIGHWAYS DEPARTMENT**  
 港珠澳大橋香港工程管理處  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**CONSULTANT**  
 工程顧問公司  
 AECOM Asia Company Ltd.  
 www.aecom.com

**SUB-CONSULTANTS**  
 分判工程顧問公司

Fig 1.12

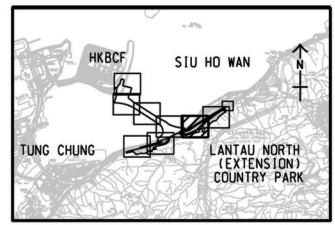
**ISSUE/REVISION**

I/R	DATE	DESCRIPTION	CHK.
-	NOV. 12	TENDER ADDENDUM NO. 1	CWY, CWN

**STATUS**  
 階段

**SCALE**      **DIMENSION UNIT**  
 比例      尺寸單位  
 A1 1 : 1000      METRES

**KEY PLAN**  
 索引圖



**PROJECT NO.**      **CONTRACT NO.**  
 項目編號      合約編號  
 60240249      HY/2012/07

**SHEET TITLE**  
 圖紙名稱  
 LOCATION OF AREA 4

**SHEET NUMBER**  
 圖紙編號  
 60240249/C1/1053

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The EM&A programme required environmental monitoring for air quality, noise, water quality and marine ecology as well as environmental site inspections for air quality, noise, water quality, waste management, marine ecology and landscape and visual impacts. The EM&A requirements and related findings for each component are summarized in the following sections.

## 2.1 AIR QUALITY

### 2.1.1 Monitoring Requirements and Equipment

In accordance with the Updated EM&A Manual, impact 1-hour TSP monitoring was conducted three (3) times every six (6) days and impact 24-hour TSP monitoring was carried out once every six (6) days when the highest dust impact was expected. The Action and Limit Level of the air quality monitoring is provided in *Appendix D*.

**Table 2.1** *Locations of Impact Air Quality Monitoring Stations*

Monitoring Station	Location	Description	Monitoring Dates
ASR 8	Pak Mong Village Watch Tower	Rooftop of the premise	5, 8, 12, 18, 24, 28 February 2014
ASR 8A	Area 4	On ground at the Area 4	

High Volume Samplers (HVSs) were used for carrying out 1-hour and 24-hr TSP monitoring on 5, 8, 12, 18, 24 and 28 February 2014 at ASR8 (Pak Mong Village Watch Tower) and ASR8A (Area 4) (*Figure 2.1; Table 2.1*) in accordance with the requirements stipulated in the Updated EM&A Manual. Wind anemometer was installed at the rooftop of Pak Mong Village Watch Tower for logging wind speed and wind direction. Details of the equipment deployed are given in *Table 2.2*. Copies of the calibration certificates for the equipment are presented in *Appendix E*.

**Table 2.2** *Air Quality Monitoring Equipment*

Equipment	Brand and Model
High Volume Sampler (1-hour TSP and 24-hour TSP)	Tisch Environmental Mass Flow Controlled Total Suspended Particulate (TSP) High Volume Sampler (Model No. TE-5170)
Wind Sensor	Global Water WE550

**Key**

- Original Monitoring Station
- Alternative Monitoring Station
- Site Boundary

AQMS	X	Y
ASR9A	815847.40	818508.64
ASR9C	816399.52	818946.65
ASR8	815059.45	817488.99
ASR8A	815856.14	818118.14

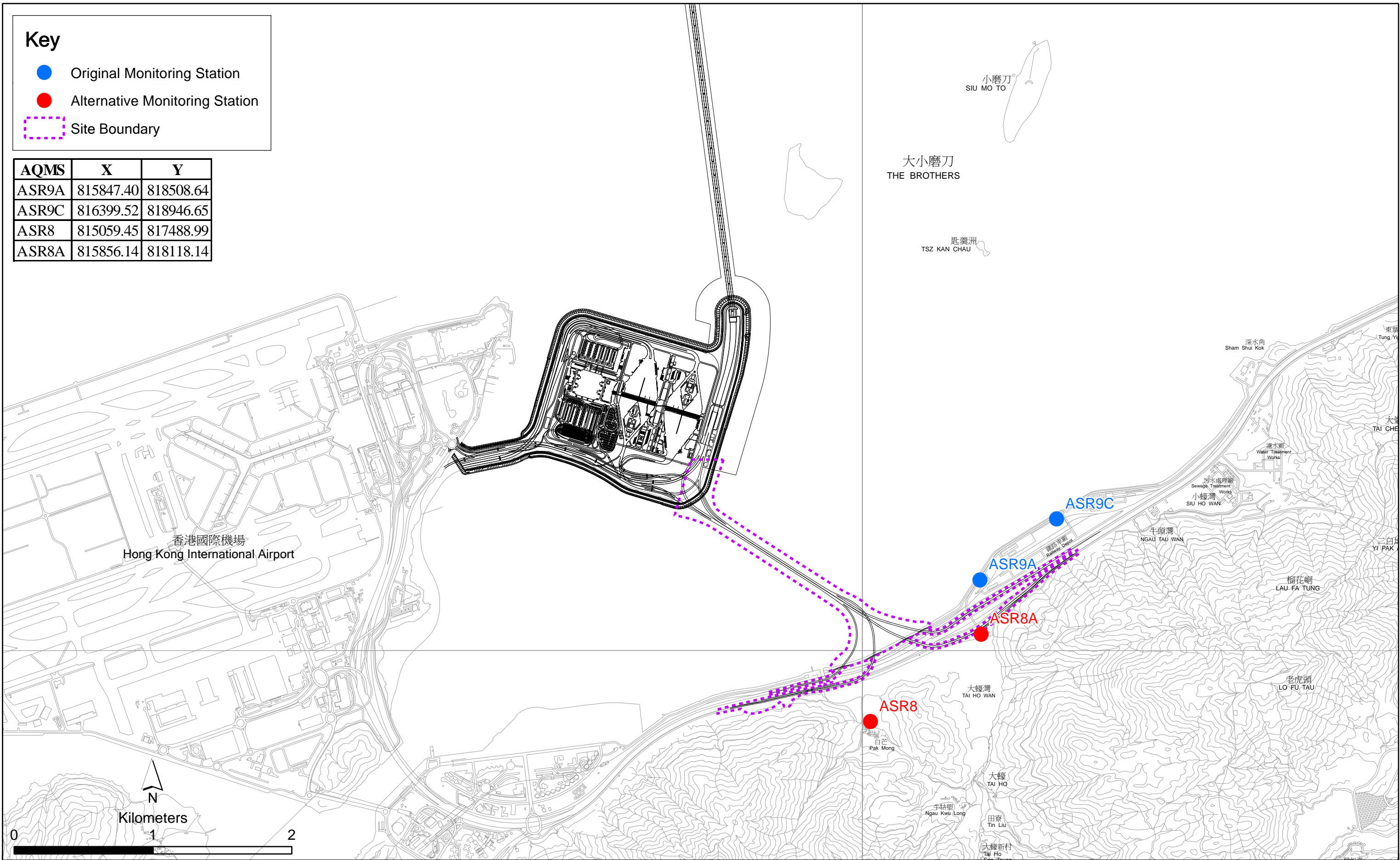


Figure 2.1

**Locations of Air Quality Monitoring Stations**

File: T:\GIS\CONTRACT\0215660\Mxd\0215660\_AQMS.mxd  
Date: 6/12/2013

Remark: Air Quality Monitoring Stations ASR9A and ASR9C (Siu Ho Wan MTRC Depot) proposed in accordance with the Updated EM&A were temporarily relocated to ASR8A and ASR8, respectively.

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### 2.1.2 *Monitoring Schedule for the Reporting Month*

The schedule for air quality monitoring in February 2014 is provided in *Appendix F*.

### 2.1.3 *Results and Observations*

The monitoring results for 1-hour TSP and 24-hour TSP are summarized in *Tables 2.3* and *2.4* respectively. Detailed impact air quality monitoring results are presented in *Appendix G*.

**Table 2.3** *Summary of 1-hour TSP Monitoring Results in the Reporting Period*

	Average ( $\mu\text{g}/\text{m}^3$ )	Range ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
ASR 8A	105	47 - 306	394	500
ASR 8	110	42 - 361	393	500

**Table 2.4** *Summary of 24-hour TSP Monitoring Results in the Reporting Period*

	Average ( $\mu\text{g}/\text{m}^3$ )	Range ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
ASR 8A	52	29 - 74	178	260
ASR 8	61	29 - 82	178	260

The major dust source in the reporting period included construction activities under the Contract as well as nearby traffic emissions.

All 1-hour and 24-hour TSP results were below the Action and Limit level at all monitoring locations in the reporting period. No action is thus required to be undertaken in accordance with the Event Action Plan presented in *Appendix L*.

Meteorological information collected from the wind station, including wind speed and wind direction, is provided in *Appendix H*.

## 2.2 *NOISE MONITORING*

### 2.2.1 *Monitoring Requirements and Equipment*

In accordance with the Updated EM&A Manual, impact noise monitoring was conducted once per week during the construction phase of the Contract. The Action and Limit level of the noise monitoring is provided in *Appendix D*.

Noise monitoring was performed on 5, 8, 12, 18, 24 and 28 February 2014 using sound level meter at the designated monitoring station NSR 1 (*Figure 2.2; Table 2.5*) in accordance with the requirements stipulated in the Updated EM&A Manual. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Details of the equipment deployed are provided in *Table 2.6*. Copies of the calibration certificates for the equipment are presented in *Appendix E*.

**Key**

- Noise Monitoring Station
- Site Boundary

NMS	X	Y
NSR1	815059.45	817488.99

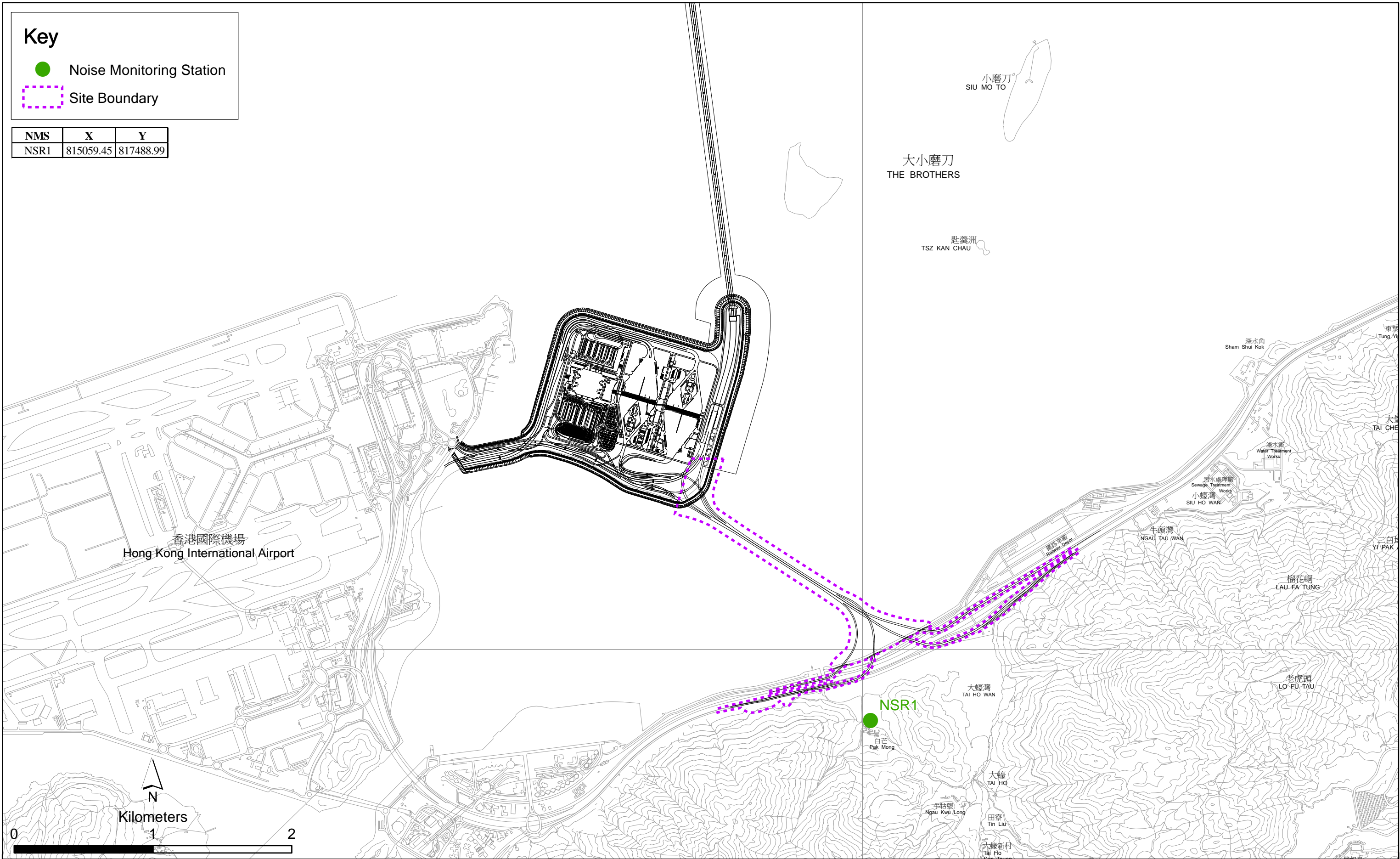


Figure 2.2

Locations of Noise Monitoring Stations

**Table 2.5 Location of Impact Noise Monitoring Station**

Monitoring Station	Location	Description	Parameter	Frequency and Duration	Monitoring Dates
NSR 1	Pak Mong Village Watch Tower	Rooftop of the premise	30-mins measurement at each monitoring station between 0700 and 1900 on normal weekdays (Monday to Saturday). $L_{eq}$ , $L_{10}$ and $L_{90}$ would be recorded.	At least once per week	5, 8, 12, 18, 24 and 28 February 2014

**Table 2.6 Noise Monitoring Equipment**

Equipment	Brand and Model
Integrated Sound Level Meter	Rion NL-31
Acoustic Calibrator	Rion NC-73

**2.2.2 Monitoring Schedule for the Reporting Month**

The schedule for construction noise monitoring in the reporting period is provide in *Appendix F*.

**2.2.3 Monitoring Results**

Results for noise monitoring are summarized in *Table 2.7* and the monitoring data is provided in *Appendix I*.

**Table 2.7 Summary of Construction Noise Monitoring Results in the Reporting Period**

	Average , dB(A), $L_{eq}$ (30mins)	Range, dB(A), $L_{eq}$ (30mins)	Limit Level, dB(A), $L_{eq}$ (30mins)
NSR 1	58	56 - 59	75

No noise Action Level and Limit level exceedance was recorded at all monitoring stations in the reporting month. No action is thus required to be undertaken in accordance with the Event Action Plan presented in *Appendix L*.

Major noise sources during the noise monitoring included construction activities, nearby traffic noise and aircraft noise.

## 2.3 WATER QUALITY MONITORING

### 2.3.1 Monitoring Requirements and Equipment

Impact water quality monitoring was carried out to ensure that any deterioration of water quality was detected, and that timely action was taken to rectify the situation. Impact water quality monitoring was undertaken three days per week during the construction period in accordance with the Updated EM&A Manual. The Action and Limit Level of the water quality monitoring is provided in *Appendix D*.

The locations of the monitoring stations under the Contract are shown in *Figure 2.3* and *Table 2.8*.

**Table 2.8** *Locations of Impact Water Quality Monitoring Stations and its Corresponding Monitoring Requirements*

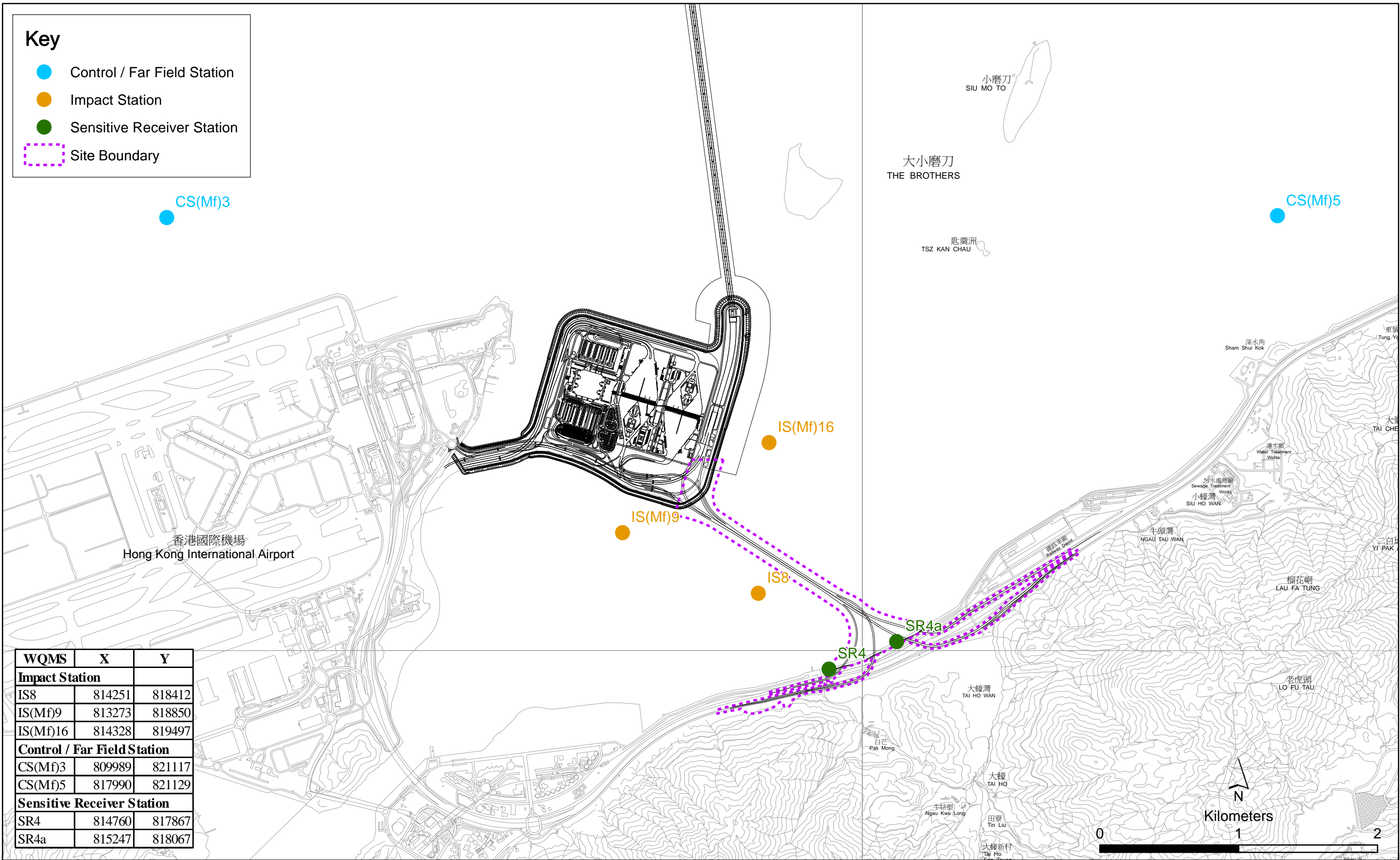
Station ID	Type	Coordinates		*Parameters, unit	Frequency	Depth
		Easting	Northing			
IS(Mf)9	Impact Station (Close to HKBCF construction site)	813273	818850	<ul style="list-style-type: none"> <li>• Temperature(°C)</li> <li>• pH(pH unit)</li> <li>• Turbidity (NTU)</li> </ul>	Impact monitoring: 3 days per week, at mid-flood and mid-ebb tides during the construction period of the Contract	3 water depths: 1m below sea surface, mid-depth and 1m above sea bed. If the water depth is less than 3m, mid-depth sampling only. If water depth less than 6m, mid-depth may be omitted
IS(Mf)16	Impact Station (Close to HKBCF construction site)	814328	819497	<ul style="list-style-type: none"> <li>• Water depth (m)</li> <li>• Salinity (ppt)</li> <li>• DO (mg/L and % of saturation)</li> <li>• SS (mg/L)</li> </ul>		
IS8	Impact Station(Close to HKBCF construction site)	814251	818412			
SR4	Sensitive receiver (Tai Ho Inlet)	814760	817867			
SR4a	Sensitive receiver	815247	818067			
CS(Mf)3	Control Station	809989	821117			
CS(Mf)5	Control Station	817990	821129			

**\*Notes:**

In addition to the parameters presented monitoring location/position, time, water depth, sampling depth, tidal stages, weather conditions and any special phenomena or works underway nearby were also recorded.

**Key**

- Control / Far Field Station
- Impact Station
- Sensitive Receiver Station
- Site Boundary



WQMS	X	Y
<b>Impact Station</b>		
IS8	814251	818412
IS(Mf)9	813273	818850
IS(Mf)16	814328	819497
<b>Control / Far Field Station</b>		
CS(Mf)3	809989	821117
CS(Mf)5	817990	821129
<b>Sensitive Receiver Station</b>		
SR4	814760	817867
SR4a	815247	818067

Figure 2.3

Locations of Water Quality Monitoring Stations

Table 2.9 summarises the equipment used in the impact water quality monitoring programme. Copies of the calibration certificates are attached in Appendix E.

**Table 2.9**      **Water Quality Monitoring Equipment**

<b>Equipment</b>	<b>Brand and Model</b>
DO, Temperature meter and Salinity	YSI Pro2030
Turbidimeter	HACH Model 2100Q
pH meter	HANNA HI8314
Positioning Equipment	Koden913MK2 with KBG-3 DGPS antenna
Water Depth Detector	Speedtech Instrument SM-5
Water Sampler	Kemmerer 1520 (1520-C25) 2.2L with messenger

**2.3.2**      **Monitoring Schedule for the Reporting Month**

The schedule for water quality monitoring in February 2014 is provided in Appendix F.

**2.3.3**      **Results and Observations**

Impact water quality monitoring was conducted at all designated monitoring stations in the reporting month. Impact water quality monitoring results and graphical presentations are provided in Appendix J.

No Action and Limit level exceedance was recorded at all monitoring stations for impact water quality monitoring in the reporting month. No action is thus required to be undertaken in accordance with the Event Action Plan presented in Appendix L.



## 2.4 DOLPHIN MONITORING

### 2.4.1 Monitoring Requirements

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

### 2.4.2 Monitoring equipment

Table 2.10 summarises the equipment used for the impact dolphin monitoring.

**Table 2.10 Dolphin Monitoring Equipment**

Equipment	Model
Global Positioning System (GPS)	Garmin 18X-PC
Camera	Geo One Phottix Nikon D90 300m 2.8D fixed focus Nikon D90 20-300m zoom lens
Laser Binoculars	Infinitor LRF 1000
Marine Binocular	Bushell 7 x 50 marine binocular with compass and reticules
Vessel for Monitoring	65 foot single engine motor vessel with viewing platform 4.5m above water level

### 2.4.3 Monitoring Parameter, Frequencies and Duration

Dolphin monitoring should cover all transect lines in Northeast Lantau (NEL) and the Northwest Lantau (NWL) survey areas twice per month throughout the entire construction period. The monitoring data should be compatible with, and should be made available for, long-term studies of small cetacean ecology in Hong Kong. In order to provide a suitable long-term dataset for comparison, identical methodology and line transects employed in baseline dolphin monitoring was followed in the impact dolphin monitoring.

### 2.4.4 Monitoring Location

The impact dolphin monitoring was carried out in the NEL and NWL along the line transect as depicted in Figure 2.4. The co-ordinates of all transect lines are shown in Table 2.11 below.

**Table 2.11 Impact Dolphin Monitoring Line Transect Co-ordinates**

Line No.	Easting	Northing		Line No.	Easting	Northing	
1	Start Point	804671	814577	13	Start Point	816506	819480
1	End Point	804671	831404	13	End Point	816506	824859
2	Start Point	805475	815457	14	Start Point	817537	820220

Line No.		Easting	Northing		Line No.		Easting	Northing
2	End Point	805477	826654		14	End Point	817537	824613
3	Start Point	806464	819435		15	Start Point	818568	820735
3	End Point	806464	822911		15	End Point	818568	824433
4	Start Point	807518	819771		16	Start Point	819532	821420
4	End Point	807518	829230		16	End Point	819532	824209
5	Start Point	808504	820220		17	Start Point	820451	822125
5	End Point	808504	828602		17	End Point	820451	823671
6	Start Point	809490	820466		18	Start Point	821504	822371
6	End Point	809490	825352		18	End Point	821504	823761
7	Start Point	810499	820690		19	Start Point	822513	823268
7	End Point	810499	824613		19	End Point	822513	824321
8	Start Point	811508	820847		20	Start Point	823477	823402
8	End Point	811508	824254		20	End Point	823477	824613
9	Start Point	812516	820892		21	Start Point	805476	827081
9	End Point	812516	824254		21	End Point	805476	830562
10	Start Point	813525	820872		22	Start Point	806464	824033
10	End Point	813525	824657		22	End Point	806464	829598
11	Start Point	814556	818449		23	Start Point	814559	821739
11	End Point	814556	820992		23	End Point	814559	824768
12	Start Point	815542	818807					
12	End Point	815542	824882					

#### 2.4.5 *Action & Limit Levels*

The action and limit levels of dolphin impact monitoring are shown in *Appendix D*. The Event and Action plan is presented in *Appendix L*.

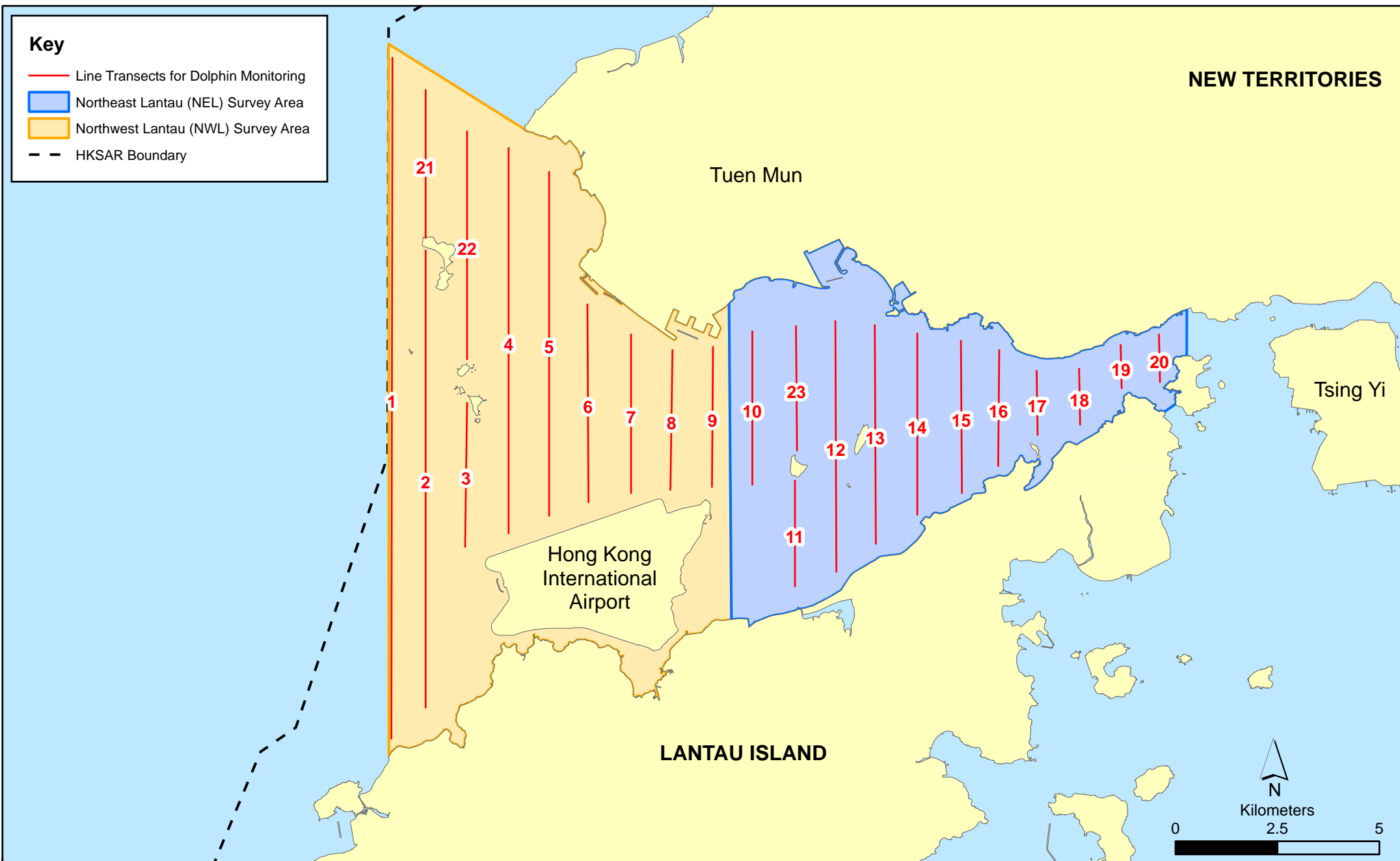


Figure 2.4

Layout of Transect Lines of Dolphin Monitoring in Northwest and Northeast Lantau Areas

#### 2.4.6 *Monitoring Schedule for the Reporting Month*

Dolphin monitoring was carried out on 6, 12, 14 and 20 February 2014 (*Appendix F*).

#### 2.4.7 *Results and Observations*

A total of 297.84 km of survey effort was collected, with 97.9% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) during the February's surveys. Among the two areas, 116.12 km and 181.72 km of survey effort were collected from NEL and NWL survey areas respectively. The total survey effort conducted on primary and secondary lines were 211.78 km and 86.06 km, respectively. The survey efforts are summarized in *Appendix K*.

A total of 11 groups of 36 Chinese White Dolphin sightings were recorded during the two sets of surveys in January 2014. All except one sighting were made in NWL during the two sets of surveys in February, with another group of four animals made during off-effort search in NEL when transiting from NWL. All sightings were made on primary lines during on-effort search, and only one of the dolphin groups was associated with an operating fishing vessel.

The majority of these dolphin sightings in February 2014 were made toward the western end of NWL survey area, while a few sightings were made near Lung Kwu Chau, south of Sha Chau, near Pillar Point and the River Trade Terminal. The distribution of dolphin sightings during the reporting month is shown in *Figure 2.5*.

Encounter rates of Chinese White Dolphins are deduced from the survey effort and on-effort sighting data made under favourable conditions (Beaufort 3 or below with good visibility) in February 2014 with the results presented in *Tables 2.12* and *2.13*.

**Table 2.12** *Individual Survey Event Encounter Rates*

		Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)	Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort)
		Primary Lines Only	Primary Lines Only
NEL	Set 1: Feb 6 <sup>th</sup> / 12 <sup>th</sup>	0.0	0.0
	Set 2: Feb 14 <sup>th</sup> / 20 <sup>th</sup>	0.0	0.0
NWL	Set 1: Feb 6 <sup>th</sup> / 12 <sup>th</sup>	7.4	17.9
	Set 2: Feb 14 <sup>th</sup> / 20 <sup>th</sup>	6.2	29.5

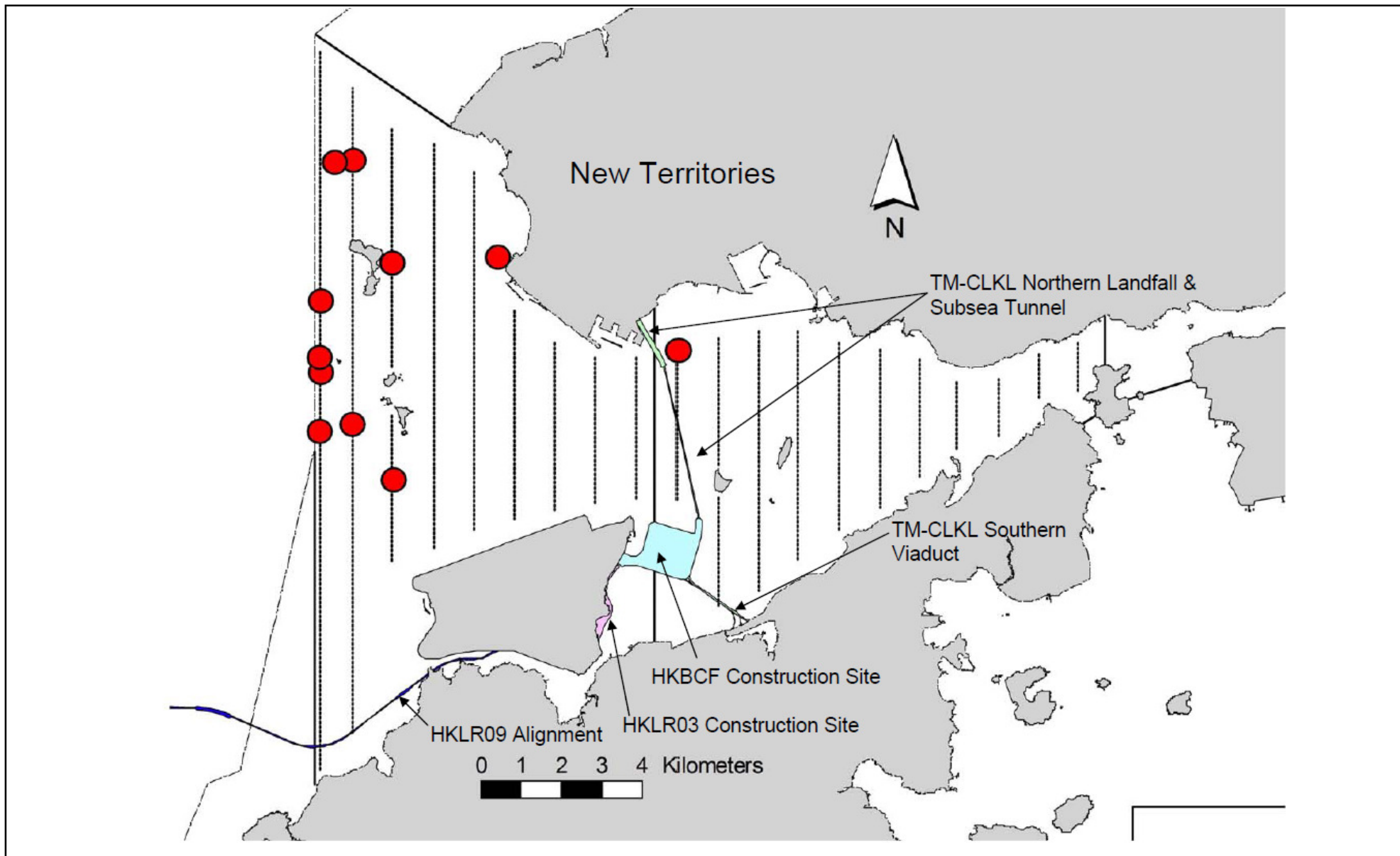


Figure 2.5

HY/2012/07 TM-CLKL Southern Connection Viaduct Section  
 The distribution of dolphin sightings during the reporting period  
 (Source: Adopted from HKLR03 Monitoring Survey in February 2014)

Date 07/03/2014

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**Table 2.13 Monthly Average Encounter Rates**

	Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)		Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort)	
	Primary Lines Only	Both Primary and Secondary Lines	Primary Lines Only	Both Primary and Secondary Lines
<b>Northeast Lantau</b>	0.0	0.0	0.0	0.0
<b>Northwest Lantau</b>	6.8	5.1	23.5	17.7

Note: Overall dolphin encounter rates (sightings per 100km of survey effort) from all four surveys are conducted in February 2014 on primary lines only as well as both primary lines and secondary lines in Northeast and Northwest Lantau

The average group size of Chinese White Dolphins in February 2014 was 3.27 individuals per group. Most dolphin groups were composed of only 1 – 4 animals, while only two larger groups of seven animals each sighted around the Sha Chau and Lung Kwu Chau Marine Park area. Detailed results of dolphin monitoring in this reporting month are presented in *Appendix K*.

During this month of dolphin monitoring, no unacceptable impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on Chinese White Dolphins was noticeable from general observations

Due to monthly variation in dolphin occurrence within the Study area, it would be more appropriate to draw conclusion on whether any unacceptable impacts on dolphins have been detected related to the construction activities of the TM-CLKL Southern Connection Viaduct Section in the quarterly EM&A reports, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period and baseline monitoring period will be made.

#### **2.4.8 Marine Mammal Exclusion Zone Monitoring**

Daily 250 m marine mammal exclusion zone monitoring was undertaken during the period of dredging activities being undertaken. No sighting of Indo-Pacific humpback dolphin *Sousa chinensis* were recorded in February 2014 during the exclusion zone monitoring.

#### **2.5 CORAL MONITORING**

No Post-Translocation Monitoring Exercise was conducted in the reporting month in February 2014.

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting month, five (5) site inspections were carried out on 7, 12, 20 and 26 February 2014.

Key observations during the site inspections are described below:

*Air Quality*

No adverse observation was identified in the reporting month.

*Noise*

No adverse observation was identified in the reporting month.

*Water Quality*

Part of the floatation unit in one of the silt curtain was not properly maintained.

More sandbags should be placed around any gullies nearby to avoid excavated mud from construction site from running into it.

*Chemical and Waste Management*

Oil stain was observed on the excavator. The Contractor is reminded to carry out proper measures to prevent the oil from contaminating the surrounding soil.

*Landscape and Visual Impact*

No adverse observation was identified in the reporting month.

*Miscellaneous*

The Environmental Permit was displayed at the site entrance.

The Contractor has rectified all observations as identified during environmental site inspection in the reporting month. Rectifications of remaining identified items are undertaken by the Contractor. Follow-up inspections on the status on provision of mitigation measures will be conducted to ensure all identified items are mitigated properly.

## 2.7 WASTE MANAGEMENT STATUS

The Contractor had submitted application form for registration as chemical waste producer under the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.

As advised by the Contractor, 2901 m<sup>3</sup> of inert C&D Materials are generated and disposed of in the reporting period and 10 m<sup>3</sup> of inert C&D Materials are disposed of as public fill. 10.67 tonnes of general refuse were generated and disposed of in the reporting period. Monthly summary of waste flow table is detailed in *Appendix M*.

The Contractor is advised to properly maintain on site C&D materials and waste collection, sorting and recording system, dispose of C&D materials and wastes at designated ground and maximize reuse/ recycle of C&D materials and wastes. The Contractor is reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.

The Contractor is reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.

## 2.8 ENVIRONMENTAL LICENSES AND PERMITS

The status of environmental licensing and permit is summarized in *Table 2.14* below.



**Table 2.14 Summary of Environmental Licensing and Permit Status**

<b>Statutory Reference</b>	<b>License/ Permit</b>	<b>License or Permit No.</b>	<b>Date of Issue</b>	<b>Date of Expiry</b>	<b>License/ Permit Holder</b>	<b>Remarks</b>
EIAO	Environmental Permit	EP-354/2009/A	8 Dec 2010	NA	HyD	Tuen Mun- Chek Lap Kok Link
EIAO	Environmental Permit	EP-354/2009/B	28 Jan 2014	NA	HyD	Tuen Mun- Chek Lap Kok Link
NCO	Construction Dust Notification	361571	5 Jul 2013	NA	GCL	-
NCO	Construction Dust Notification	362093	17 Jul 2013	NA	GCL	for Area 23
WDO	Billing Account for Disposal	7017735	10 Jul 2013	End of Project	GCL	-
WDO	Chemical Waste Registration	5213-961-G2380-13	10 Oct 2013	NA	GCL	Chemical waste produced in Contract HY/2012/07
WDO	Chemical Waste Registration	5213-961-G2380-14	10 Oct 2013	NA	GCL	Chemical waste produced in Contract HY/2012/07
WDO	Chemical Waste Registration	5213-974-G2588-03	4 Nov 2013	NA	GCL	Chemical waste produced in Contract HY/2012/07
WDO	Construction Waste Disposal Account	7017735	10 Jul 2013	NA	GCL	Waste disposal in Contract HY/2012/07
WPCO	Waste Water Discharge License	Nil	Application Ref. 368337	NA	GCL	Discharge for discharge points for Viaduct A & B
NCO	Construction Noise Permit	Nil	Application in	NA	GCL	For Piling Works

Statutory Reference	License/ Permit	License or Permit No.	Date of Issue	Date of Expiry	License/ Permit Holder	Remarks
NCO	Construction Noise Permit	GW-RW0660-13	process 27 Sep 2013	02 Feb 2014	GCL	For night works and works in general holidays
NCO	Construction Noise Permit	GW-RS1129-13	31 Oct 2013	30 Apr 2014	GCL	For night works and works in general holidays
NCO	Construction Noise Permit	GW-RS1186-13	23 Oct 2013	24 Dec 2013	GCL	For night works and works in general holidays
NCO	Construction Noise Permit	GW-RS1187-13	24 Oct 2013	28 Feb 2014	GCL	For night
NCO	Construction Noise Permit	GW-RW0925-13	19 Dec 2013	17 Apr 2014	GCL	Renewal of WA5 site office erection
NCO	Construction Noise Permit	GW-RS1423-13	11 Dec 2013	30 Apr 2014	GCL	Renewal for marine portion
NCO	Construction Noise Permit	GW-RS1413-13	17 Dec 2013	26 Mar 2014	GCL	For loading and unloading on NLH near viaduct A & B
NCO	Construction Noise Permit	GW-RS0034-14	14 Jan 2014	29 Mar 2014	GCL	For night works and works in general holiday
NCO	Construction Noise Permit	GW-RW0123-14	27 Feb 2014	27 Aug 2014	GCL	For night works and works in general holiday
DASO	Dumping Permit/ Loading Permit (Type 1 – Open Sea Disposal)	(4) in EP/MD/14-075	25 Sep 2013	NA	GCL	-
DASO	Marine Dumping Permit	EP/MD/14-075	28 January 2014	27 July 2014	GCL	-

**2.9** *IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES*

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

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

**2.10** *SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT*

Results for 1-hour, 24-hour TSP, construction noise monitoring and impact water quality monitoring complied with the Action/ Limit levels in the reporting period.

Cumulative statistics on exceedances is provided in *Appendix N*.

**2.11** *SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS*

The Environmental Complaint Handling Procedure is provided in *Figure 2.6*.

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

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

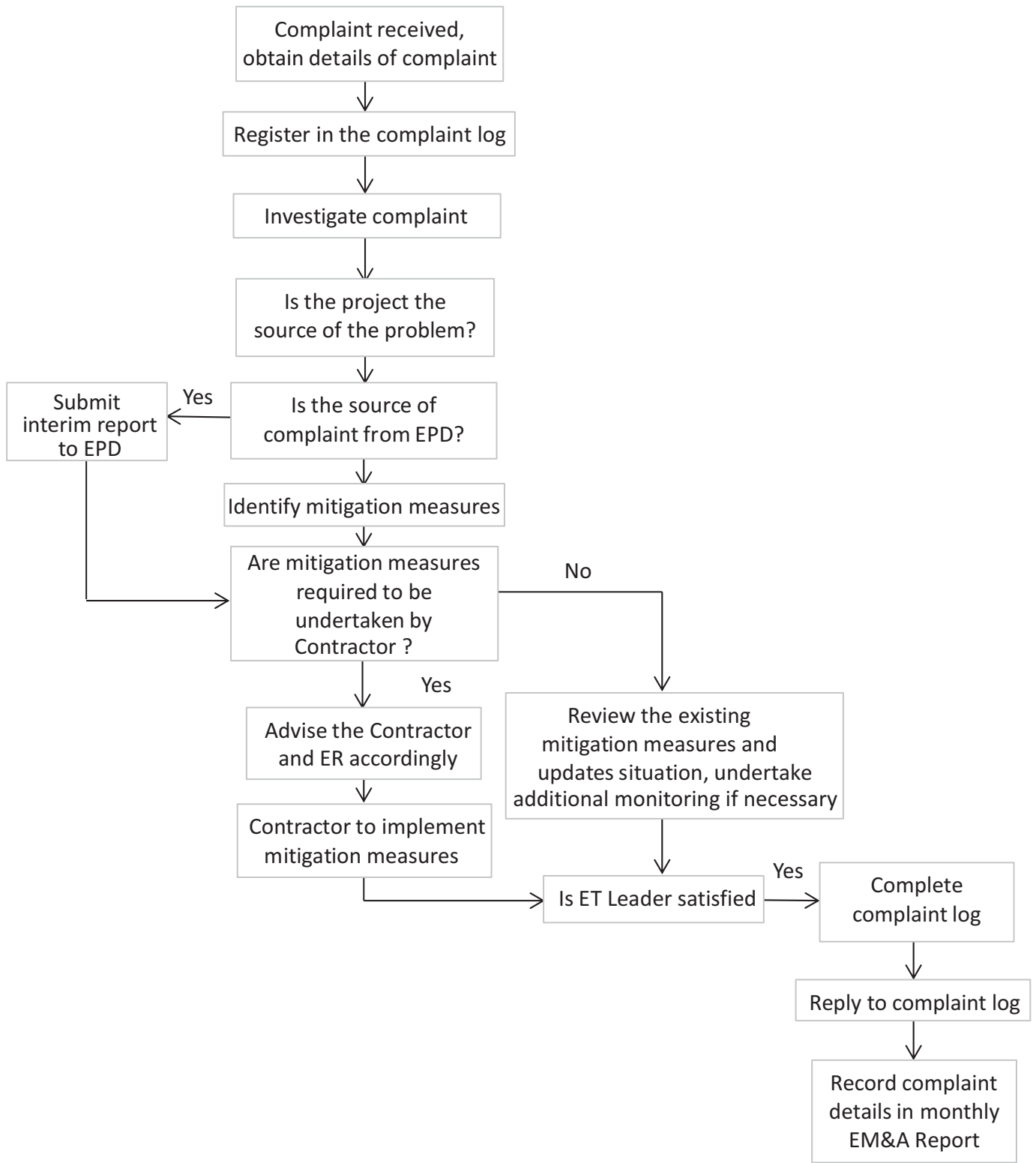


Figure 2.6

Environmental Complaint Handling Procedure

### 3 *FUTURE KEY ISSUES*

#### 3.1 *CONSTRUCTION PROGRAMME FOR THE COMING MONTHS*

As informed by the Contractor, the major works for the Contract in March 2014 will be:

##### *Marine Works*

- Marine piling platform installation;
- Marine piling at Viaduct B;
- Survey tower erection;
- Construction of rockfill platform at Viaduct D landing; and
- Additional marine ground investigation (GI) and laboratory testing.

##### *Land-based Works*

- Satellite container offices erection along seawall;
- Fence installation and relocation of Area 2, Viaducts A, B, C & D;
- Land piling at Viaduct B;
- Piling platform installation for Viaducts B, D & E;
- Additional land ground investigation (GI), trial pits & laboratory testing;
- Utility surveys; and
- Soil nail and excavation at slope 9SE-B/C8.

#### 3.2 *KEY ISSUES FOR THE COMING MONTH*

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of March 2014 are mainly associated with dust, noise, marine water quality, marine ecology and waste management issues.

#### 3.3 *MONITORING SCHEDULE FOR THE COMING MONTH*

The tentative schedule for environmental monitoring in March 2014 is provided in *Appendix F*.

Marine bored piling monitoring programme for dolphins (ie Land-based Theodolite Tracking, Underwater Noise Monitoring and Acoustic Behavioural Monitoring) will tentatively be commenced on 3 March 2014. The preliminary schedule for the marine bored piling monitoring in the coming reporting month is provide in *Appendix F*.

#### 4.1 CONCLUSIONS

This fourth Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 28 February 2014, in accordance with the Updated EM&A Manual and the requirements of EP-354/2009/A.

Air quality (including 1-hour TSP and 24-hour TSP), noise, water quality and dolphin monitoring were carried out in the reporting period. Results for noise, 1-hr, 24-hr TSP monitoring, noise and impact water quality monitoring complied with the Action/ Limit levels in the reporting period.

A total of eleven (11) groups of thirty-six (36) dolphin sightings were recorded during the two sets of surveys. All except one sighting were made in NWL during the two sets of surveys in February, with another group of four animals being sighted during off-effort search in NEL when transiting from NWL. During this reporting period of dolphin monitoring, no unacceptable impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on Chinese White Dolphins was noticeable from general observations.

Environmental site inspection was carried out four (4) times in February 2014. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site audits.

No environmental complaint, notification of summons and prosecution were received in the reporting month.

#### 4.2 RECOMMENDATIONS

According to the environmental site inspections performed in the reporting month, the following recommendations were provided:

##### *Air Quality Impact*

- All working plants and vessels on site should be regularly inspected and properly maintained by the Contractor to avoid dark smoke emission.

##### *Construction Noise Impact*

- Vessels and equipment operating should be checked regularly and properly maintained by the Contractor.

##### *Water Quality Impact*

- The Contractor should regularly review and maintain drainage systems to make sure they are functioning effectively.

- Proper drainage channels, bunds and set-up should be provided by the Contractor at the site to collect/ intercept the surface run-off or waste water generated from works area to ensure no direct discharge from site to surrounding water bodies.
- Any silt curtains in use should be regularly inspected to ensure they are in good condition to minimize the migration of suspended solids into the surrounding water bodies.

### *Chemical and Waste Management*

- All types of wastes should be collected and sorted accordingly and removed timely by the Contractor. They should be properly stored in designated areas within the works areas temporarily.
- All plants and vehicles on site should be properly maintained by the Contractor and drip trays should be provided where appropriate to prevent oil leakage.
- All drain holes of the drip trays within the works areas should be properly plugged by the Contractor to avoid any oil and chemical waste leakage.
- Oil stains on soil surface should be cleared and disposed of appropriately by the Contractor as chemical waste.

Appendix A

## Project Organization for Environmental Works





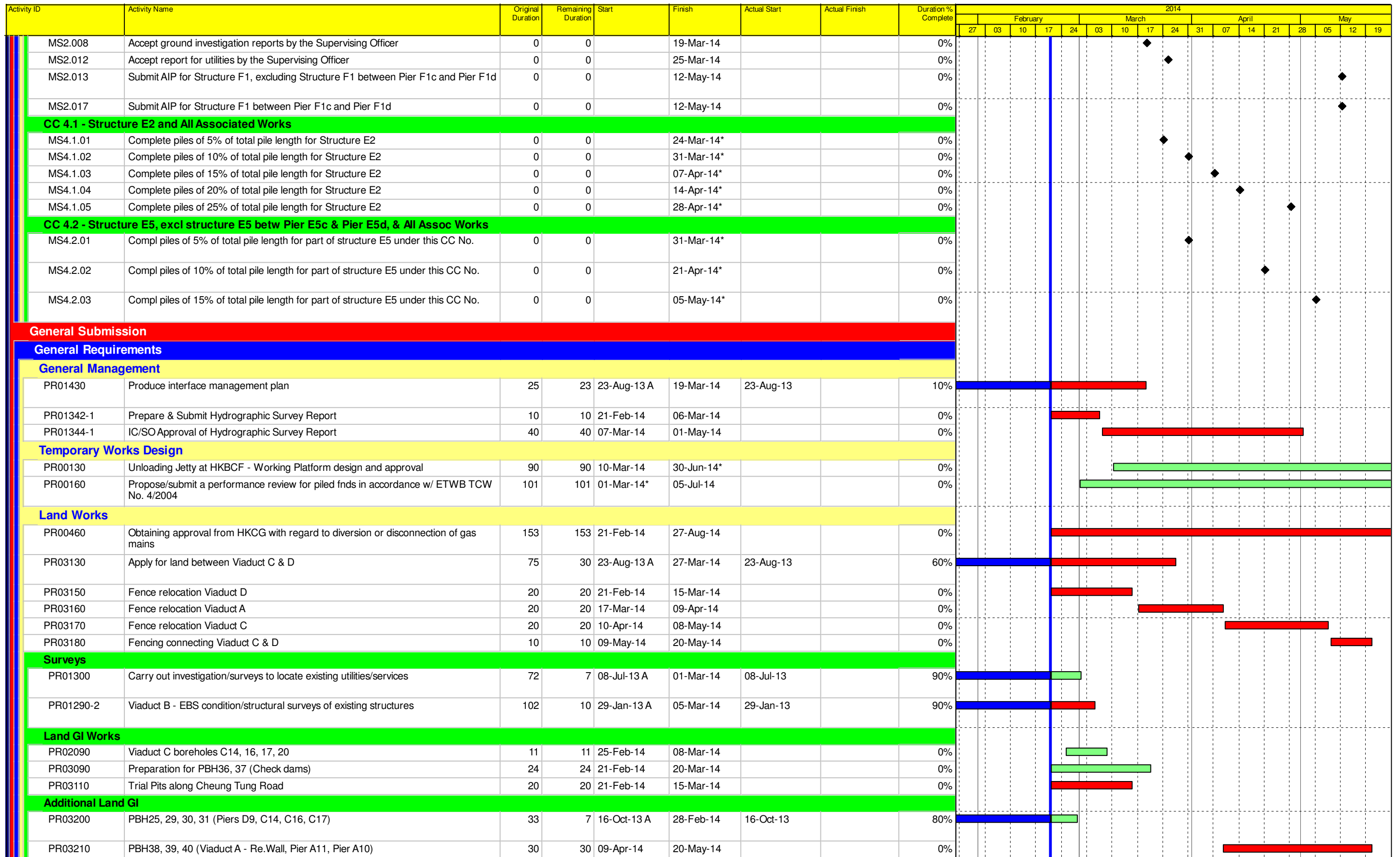
↔ Line of Communication





Appendix B

## Three-Month Rolling Construction Programme

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Duration % Complete	2014															
									February				March				April				May			
									27	03	10	17	24	03	10	17	24	31	07	14	21	28	05	12
<b>HY/2012/07 - TM-CLK Link-SC [DWP rD] TARGET - Weekly Progress Update Wk 37 (21-02-2014)</b>																								
<b>Contract Key Dates</b>																								
<b>IPS Milestones</b>																								
<b>Cost Centre IPS Milestones</b>																								
<b>CC 1 - Preliminaries and General Requirements</b>																								
MS1.07	Complete 100% of establishment of main site office accom and fac for Supervising Officer	0	0		21-Feb-14*			0%																
MS1.09	Complete 100% of provision of Contract Computers and Network Fac for the Superv Officer	0	0		21-Feb-14*			0%																
<b>CC 2 - Design and Design Checking of the Works</b>																								
MS2.029	Submit AIP for Structure F3 between Pier F3c and Pier F3d	0	0		12-May-14			0%																
MS2.046	Approve AIP for Structure E1 by the Supervising Officer	0	0		26-Feb-14			0%																
MS2.050	Approve AIP for Structure E2 by the Supervising Officer	0	0		26-Feb-14			0%																
MS2.051	Submit DDA for Structure E2	0	0		10-Mar-14			0%																
MS2.054	Approve AIP for Structure E5, excl Structure E5 betw Pier E5c & Pier E5d, by S.O.	0	0		26-Feb-14			0%																
MS2.055	Submit DDA for Structure E5, excluding Structure E5 between Pier E5c and Pier E5d	0	0		10-Mar-14			0%																
MS2.058	Approve AIP for Structure E5 betw Pier E5c & Pier E5d by the Supervising Officer	0	0		26-Feb-14			0%																
MS2.059	Submit DDA for Structure E5 between Pier E5c and Pier E5d	0	0		10-Mar-14			0%																
MS2.062	Approve AIP for Structure E6 by the Supervising Officer	0	0		26-Feb-14			0%																
MS2.063	Submit DDA for Structure E6	0	0		10-Mar-14			0%																
MS2.066	Approve AIP for Structure E7 by the Supervising Officer	0	0		26-Feb-14			0%																
MS2.067	Submit DDA for Structure E7	0	0		07-Apr-14			0%																
MS2.070	Approve AIP for Structure E8 by the Supervising Officer	0	0		26-Feb-14			0%																
MS2.071	Submit DDA for Structure E8	0	0		07-Apr-14			0%																
MS2.079	Submit DDA for Structure B	0	0		20-May-14			0%																
MS2.085	Submit AIP for Structure D	0	0		25-Feb-14			0%																
MS2.093	Submit AIP for At grade Roadworks and Other Works along Cheung Tung Road	0	0		21-Feb-14			0%																
MS2.094	Approve AIP for At grade Roadworks & Other Works along Cheung Tung Road by S.O.	0	0		19-May-14			0%																
MS2.095	Submit DDA for At grade Roadworks and Other Works along Cheung Tung Road	0	0		19-May-14			0%																
MS2.097	Submit AIP for At grade Roadworks and Other Works at Southern Landfall	0	0		21-Feb-14			0%																
MS2.098	Approve AIP for At grade Roadwrks & Other Wrks at Southern Landfall by S.O.	0	0		21-Mar-14			0%																
MS2.099	Submit DDA for At grade Roadworks and Other Works at Southern Landfall	0	0		16-May-14			0%																
MS2.101	Submit AIP for Watermains & All Assoc Works frm Tung Chung to Southern Landfall	0	0		21-Feb-14			0%																
MS2.102	Approve AIP for Watermains & All Assoc Wrks frm Tung Chung to South Landfall by S.O.	0	0		21-Mar-14			0%																
MS2.103	Submit DDA for Watermains & All Assoc Wrks frm Tung Chung to South Landfall	0	0		16-May-14			0%																
MS2.105	Submit AIP for Irrigation System for Soft Landscape Works	0	0		03-Apr-14			0%																
MS2.004	Accept design memorandum by the Supervising Officer	0	0		04-Mar-14			0%																
MS2.005	Submit construction traffic impact assessment	0	0		17-Apr-14			0%																
MS2.006	Accept construction traffic impact assessment by the Supervising Officer	0	0		06-Mar-14*			0%																

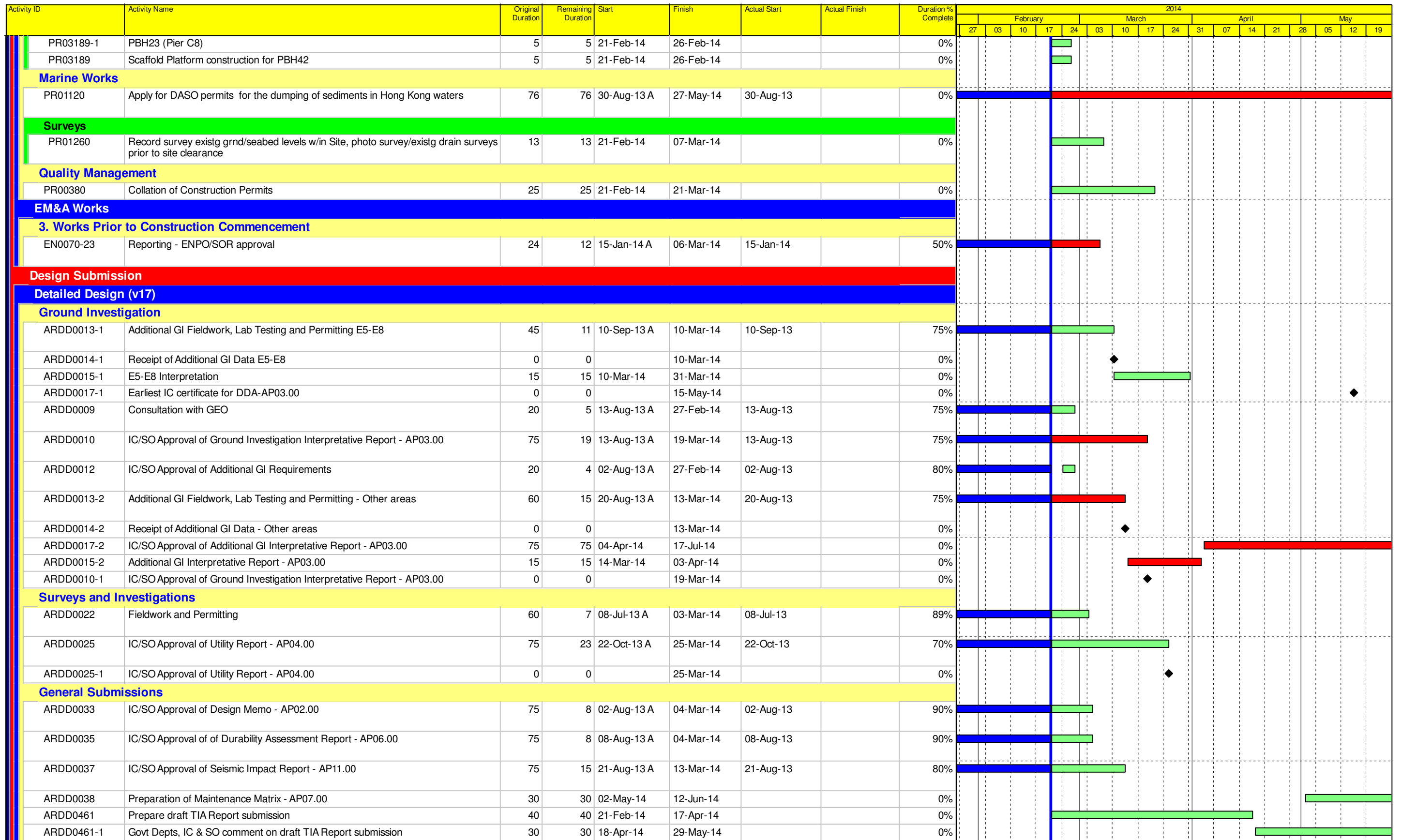
<ul style="list-style-type: none"> <li><span style="color: blue;">■</span> Actual Work</li> <li><span style="color: green;">■</span> Planned Bar</li> <li><span style="color: red;">■</span> Critical Bar</li> <li>◆ Milestone</li> </ul>	<table border="1"> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> <tr> <td>21-Feb-14</td> <td>3M-Rolling Progr Up...</td> <td>SMC</td> <td></td> </tr> </table>	Date	Revision	Checked	Approved	21-Feb-14	3M-Rolling Progr Up...	SMC		<p align="center"><b>Tuen Mun - Chek Lap Kok Southern Connection</b></p> <p align="center"><b>3-Month Rolling Programme (Page 1 of 19 Pages)</b></p> <p align="center"><b>(Progress as of 21-Feb-14)</b></p>	<p><b>DWG. No.:</b></p> <p align="center"><b>J3518/GCL/PGM/3MRP - W37</b></p>
Date	Revision	Checked	Approved								
21-Feb-14	3M-Rolling Progr Up...	SMC									



 Actual Work	Date	Revision	Checked	Approved
 Planned Bar	21-Feb-14	3M-Rolling Progr Up...	SMC	
 Critical Bar				
 Milestone				

**Tuen Mun - Chek Lap Kok Southern Connection**  
**3-Month Rolling Programme (Page 2 of 19 Pages)**  
**(Progress as of 21-Feb-14)**

**DWG. No.:**  
**J3518/GCL/PGM/3MRP - W37**



Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Duration % Complete	2014																	
									February						March						April				May	
									27	03	10	17	24	03	10	17	24	31	07	14	21	28	05	12	19	
ARDD0462	Prepare final TIA Report to incorporate comments from Govt Depts, IC & SO	10	0	25-Nov-13 A	21-Jan-14 A	25-Nov-13	21-Jan-14	100%																		
ARDD0462-1	Govt depts, IC/SO approval of final TIA Report	10	10	21-Feb-14	06-Mar-14			0%																		
ARDD0041-1	Preparation of O&M Facility Provisions - AP11.00	50	50	21-Feb-14	01-May-14			0%																		
ARDD0041-2	IC/SO Approval of O&M Facility Provisions - AP11.00	75	75	02-May-14	14-Aug-14			0%																		
ARDD0042-1	Preparation of O&M Facility Provisions - AP11.01	40	17	10-Feb-14 A	17-Mar-14	10-Feb-14		57.5%																		
ARDD0037-3	IC/SO Approval of Seismic Impact Report - AP11.00	0	0		13-Mar-14			0%																		
ARDD0035-1	IC/SO Approval of Durability Assessment Report - AP06.00	0	0		04-Mar-14			0%																		
ARDD0033-1	IC/SO Approval of Design Memo - AP02.00	0	0		04-Mar-14			0%																		
<b>ACABAS Submission</b>																										
ARDD0049	2nd ACABAS Meeting	0	0		21-Feb-14			0%																		
ARDD0051	Prepare Updated Submission	44	16	26-Nov-13 A	17-Mar-14	26-Nov-13		63.33%																		
ARDD0064	ACABAS Meeting	0	0		21-Jan-14 A		21-Jan-14	100%																		
<b>GCL Erection Sequence and Method</b>																										
ARDD0060-4	Receipt of Final Erection Sequence and Loads - Bridge C	0	0		21-Feb-14			0%																		
ARDD0060-7	Receipt of Final Erection Sequence and Loads - Bridge F	0	0		10-Mar-14			0%																		
<b>Gazette and Alignment (assume no gazette change)</b>																										
ARDD0068	IC/SO Approval of Alignment AIP - BP01.00	68	3	06-Aug-13 A	26-Feb-14	06-Aug-13		95%																		
ARDD0069	Finalise Alignment DDA	15	0	30-Sep-13 A	21-Jan-14 A	30-Sep-13	21-Jan-14	100%																		
ARDD0070	Submission of Alignment DDA - BP01.01	0	0		21-Feb-14			0%																		
ARDD0071	IC/SO Approval of Alignment DDA - BP01.01	75	75	21-Feb-14	05-Jun-14			0%																		
ARDD0071-1	Earliest Approval of Alignment DDA - BP01.01	0	0		03-Apr-14			0%																		
ARDD0068-1	IC/SO Approval of Alignment AIP - BP01.00	0	0		26-Feb-14			0%																		
<b>General Viaduct Submission</b>																										
ARDD0075	Preparation of Viaduct E&M Works AIP - BP21.00	80	4	30-Sep-13 A	26-Feb-14	30-Sep-13		95%																		
ARDD0076	IC/SO Approval of AIP - BP21.00	68	68	19-May-14	20-Aug-14			0%																		
<b>Viaduct B</b>																										
<b>Viaduct Design</b>																										
ARDD0099-2	Viaduct B - IC/SO Approval Pile Cap Precast Shells of DDA DP12.02	75	0	30-Nov-13 A	21-Feb-14	30-Nov-13		100%																		
ARDD0094-3	Viaduct B - IC/SO Approval of Foundation (Late) DDA - DP12.01	75	30	07-Nov-13 A	03-Apr-14	07-Nov-13		60%																		
ARDD0099-1	Viaduct B - Earliest IC Certificate for DP12.03	0	0		03-Apr-14			0%																		
ARDD0094-2	Viaduct B - IC/SO Approval of Foundation (Early) DDA - DP12.01	55	22	07-Nov-13 A	24-Mar-14	07-Nov-13		60%																		
ARDD0096	Viaduct B - Preparation of Substructure DDA - DP12.03	50	0	04-Nov-13 A	10-Feb-14 A	04-Nov-13	10-Feb-14	100%																		
ARDD0097	Viaduct B - Preparation of Superstructure DDA - DP12.03	70	0	04-Nov-13 A	10-Feb-14 A	04-Nov-13	10-Feb-14	100%																		
ARDD0098	Viaduct B - Submission of Sub & Superstructure DDA - DP12.03	0	0		21-Feb-14			0%																		
ARDD0099-3	Viaduct B - IC/SO Approval of Sub & Superstructure DDA - DP12.03	75	75	21-Feb-14	05-Jun-14			0%																		
ARDD0094-5	Viaduct B - IC/SO Approval of Foundation (Late) DDA - DP12.01	0	0		03-Apr-14			0%																		
ARDD0099-7	Viaduct B - IC/SO Approval Pile Cap Precast Shells of DDA DP12.02	0	0		21-Feb-14			0%																		
ARDD0089-1	Viaduct B - IC/SO Approval of Sub & Superstructure AIP - DP12.00	0	0		21-Feb-14			0%																		

Actual Work	Date	Revision	Checked	Approved
Planned Bar	21-Feb-14	3M-Rolling Progr Up...	SMC	
Critical Bar				
Milestone				

**Tuen Mun - Chek Lap Kok Southern Connection**

**3-Month Rolling Programme (Page 4 of 19 Pages)**

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**DWG. No.:**

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Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Duration % Complete	2014															
									February				March				April				May			
									27	03	10	17	24	03	10	17	24	31	07	14	21	28	05	12
ARDD0192	Viaduct E7 & E8 - Preparation of Substructure DDA - 15.09	60	31	04-Nov-13 A	07-Apr-14	04-Nov-13		48%																
ARDD0193	Viaduct E7 & E8 - Preparation of Superstructure DDA - DP15.09	90	12	04-Nov-13 A	10-Mar-14	04-Nov-13		86.67%																
ARDD0194	Viaduct E7 & E8 - Submission of Sub & Superstructure DDA - DP15.09	0	0		07-Apr-14			0%																
ARDD0195-4	Viaduct E7 & E8 - IC/SO Approval of Sub & Superstructure DDA - DP15.09	75	75	08-Apr-14	21-Jul-14			0%																
ARDD0194-2	Viaduct E7 & E8 - Submission of Pilecap Precast Shells DDA - DP15.08	0	0		24-Feb-14			0%																
ARDD0195-3	Viaduct E7 & E8 - IC/SO Approval of Pilecap Precast Shells DDA - DP15.08	75	75	25-Feb-14	09-Jun-14			0%																
ARDD0185-1	Viaduct E7 & E8 - IC/SO Approval of Sub & Superstructure AIP - DP15.00	0	0		26-Feb-14			0%																
<b>Information to Contractor</b>																								
ARDD0200	Viaduct E7 & E8 - Final Pile Reinforcement and Socket H Pile Details	0	0		30-Jan-14 A		30-Jan-14	100%																
ARDD0205	Viaduct E7 & E8 - Final Pilecap Reinforcement	0	0		07-Apr-14			0%																
ARDD0207	Viaduct E7 & E8 - Final Pier Shapes and Reinforcement	0	0		07-Apr-14			0%																
ARDD0210	Viaduct E7 & E8 - Final Segment Types and Reinforcement	0	0		10-Mar-14			0%																
ARDD0212	Viaduct E7 & E8 - Final Anchorage and PT Requirements	0	0		10-Mar-14			0%																
<b>Viaduct E2</b>																								
<b>Viaduct Design</b>																								
ARDD0231	Viaduct E2 - IC/SO Approval of Sub & Superstructure AIP - DP15.00	68	3	01-Oct-13 A	26-Feb-14	01-Oct-13		95%																
ARDD0236-3	Viaduct E2 - IC/SO Approval of Foundation (Late) DDA - DP15.04	75	30	16-Dec-13 A	03-Apr-14	16-Dec-13		60%																
ARDD0237	Viaduct E2 - Preparation of Pilecap Precast Shells DDA - DP15.05	40	2	04-Nov-13 A	24-Feb-14	04-Nov-13		95%																
ARDD0238	Viaduct E2 - Preparation of Substructure DDA - DP15.06	60	12	04-Nov-13 A	10-Mar-14	04-Nov-13		80%																
ARDD0239	Viaduct E2 - Preparation of Superstructure DDA - DP15.06	90	12	04-Nov-13 A	10-Mar-14	04-Nov-13		86.67%																
ARDD0240	Viaduct E2 - Submission of Sub & Superstructure DDA - DP15.06	0	0		10-Mar-14			0%																
ARDD0241-3	Viaduct E2 - IC/SO Approval (Late) of Sub & Superstructure DDA - DP15.06	75	75	11-Mar-14	23-Jun-14			0%																
ARDD0236-1	Viaduct E2 - Earliest IC Certificate for Foundation DDA - DP15.04	0	0		26-Feb-14			0%																
ARDD0236-2	Viaduct E2 - IC/SO Approval of Foundation (Early) DDA - DP15.04	55	22	16-Dec-13 A	24-Mar-14	16-Dec-13		60%																
ARDD0241-1	Viaduct E2 - Earliest IC certificate for Pilecap Precast Shells DDA - DP15.05	0	0		07-Apr-14			0%																
ARDD0241-4	Viaduct E2 - IC/SO Approval Pilecap Precast Shells DDA - DP15.05	75	75	25-Feb-14	09-Jun-14			0%																
ARDD0240-2	Viaduct E2 - Submission of Pilecap Precast Shell DDA - DP15.05	0	0		24-Feb-14			0%																
ARDD0236-5	Viaduct E2 - IC/SO Approval of Foundation (Late) DDA - DP15.04	0	0		03-Apr-14			0%																
ARDD0231-1	Viaduct E2 - IC/SO Approval of Sub & Superstructure AIP - DP15.00	0	0		26-Feb-14			0%																
<b>Information to Contractor</b>																								
ARDD0246	Viaduct E2 - Final Pile Reinforcement and Socket H Pile Details	0	0		30-Jan-14 A		30-Jan-14	100%																
ARDD0251	Viaduct E2 - Final Pilecap Reinforcement	0	0		10-Mar-14			0%																
ARDD0253	Viaduct E2 - Final Pier Shapes and Reinforcement	0	0		10-Mar-14			0%																
ARDD0256	Viaduct E2 - Final Segment Types and Reinforcement	0	0		10-Mar-14			0%																
ARDD0258	Viaduct E2 - Final Anchorage and PT Requirements	0	0		10-Mar-14			0%																
<b>Associated Construction Milestones</b>																								
ARDD0264	Viaduct E2 - Commencement of Piling	0	0	27-Apr-14				0%																

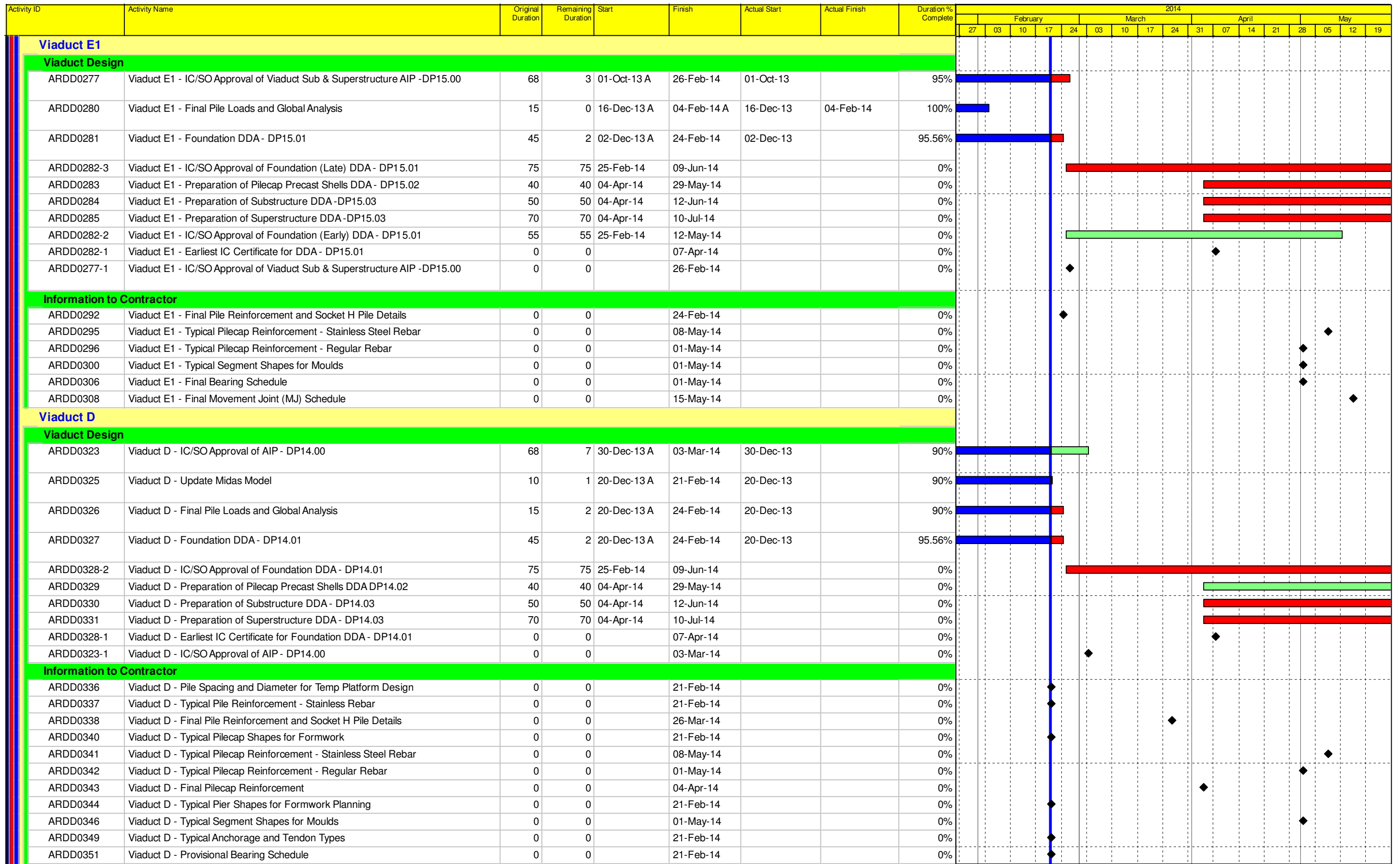
	Actual Work
	Planned Bar
	Critical Bar
	Milestone

Date	Revision	Checked	Approved
21-Feb-14	3M-Rolling Progr Up...	SMC	

**Tuen Mun - Chek Lap Kok Southern Connection**  
**3-Month Rolling Programme (Page 6 of 19 Pages)**  
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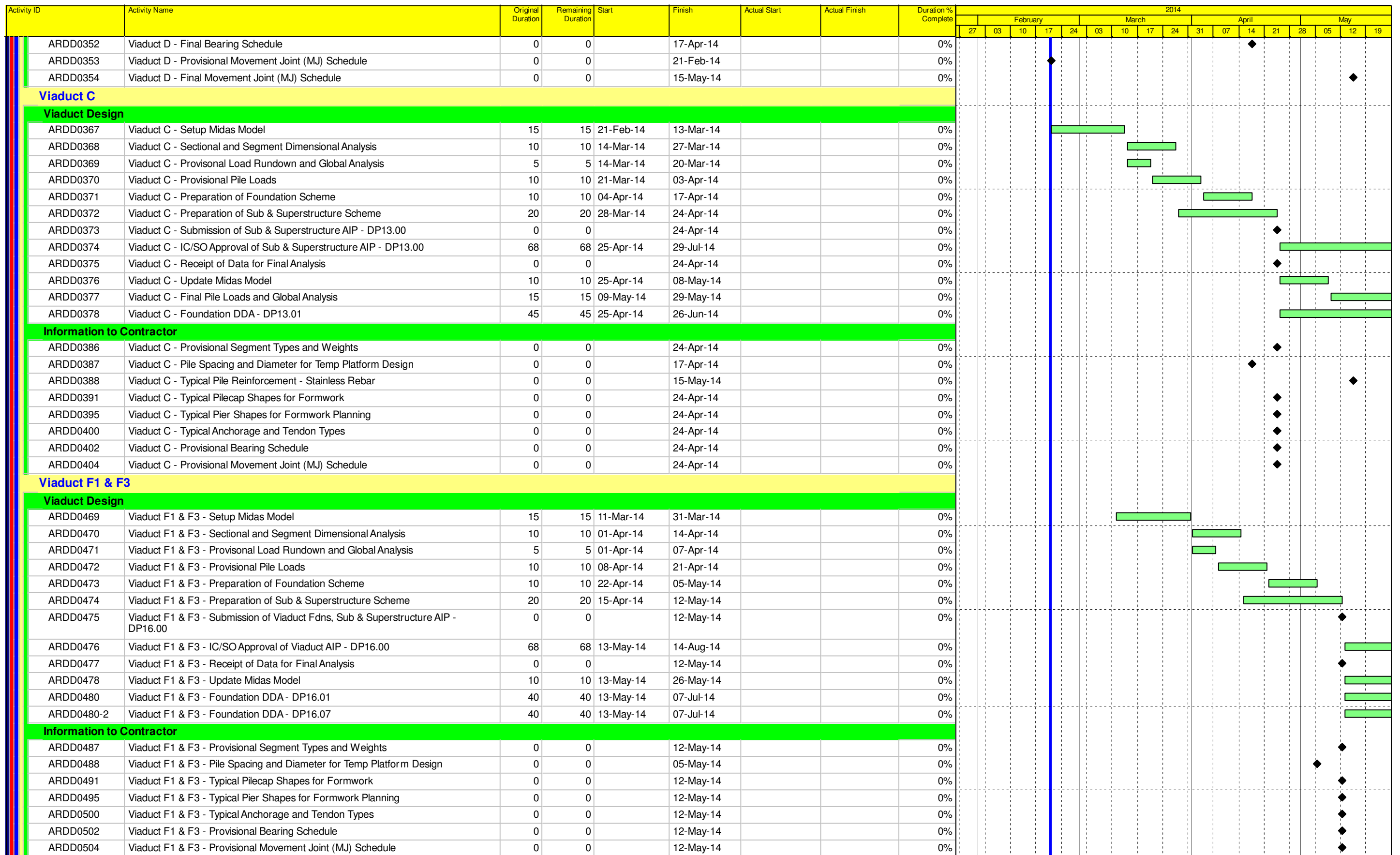


	Actual Work
	Planned Bar
	Critical Bar
	Milestone

Date	Revision	Checked	Approved
21-Feb-14	3M-Rolling Progr Up...	SMC	

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**3-Month Rolling Programme (Page 7 of 19 Pages)**  
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**J3518/GCL/PGM/3MRP - W37**

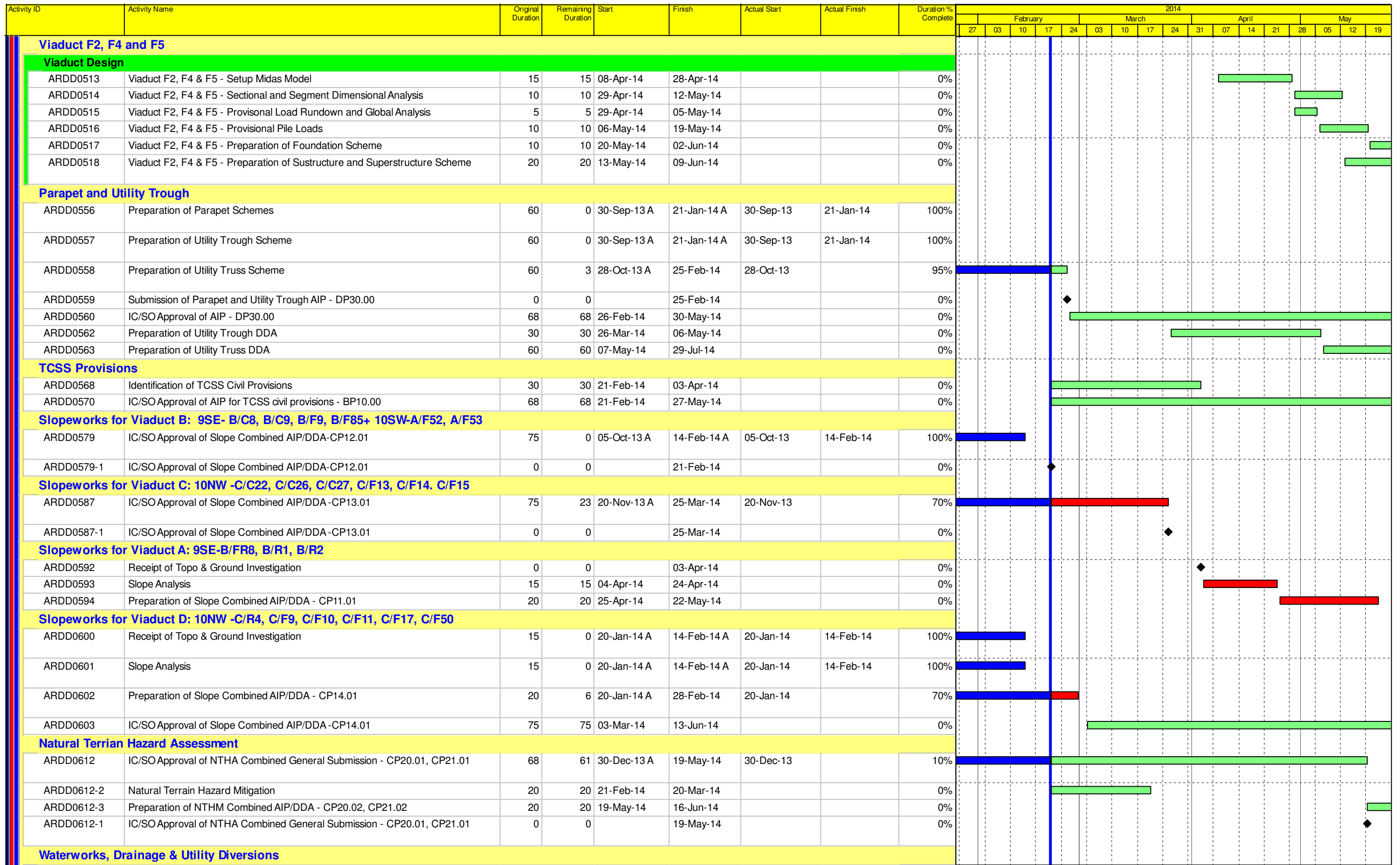






- Actual Work
- Planned Bar
- Critical Bar
- ◆ Milestone

Date	Revision	Checked	Approved
21-Feb-14	3M-Rolling Progr Up...	SMC	

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**J3518/GCL/PGM/3MRP - W37**







	Actual Work		
	Planned Bar		
	Critical Bar		
	Milestone		
Date	Revision	Checked	Approved
21-Feb-14	3M-Rolling Progr Up...	SMC	

**Tuen Mun - Chek Lap Kok Southern Connection**  
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**DWG. No.:**  
**J3518/GCL/PGM/3MRP - W37**

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Duration % Complete	2014															
									February				March				April				May			
									27	03	10	17	24	03	10	17	24	31	07	14	21	28	05	12
ARDD0622	IC/SO Approval of AIP for Waterworks, Drainage & Utility Diversions	68	20	02-Jan-14 A	21-Mar-14	02-Jan-14		70%	[Gantt bar: 02-Jan-14 to 21-Mar-14, 70% complete]															
ARDD0624	Preparation of Waterworks, Drainage & Utility DDA - BP20.01	40	40	21-Mar-14	16-May-14			0%	[Gantt bar: 21-Mar-14 to 16-May-14, 0% complete]															
ARDD0628	Submission of DDA for Waterworks, Drainage & Utility Diversions	0	0		16-May-14			0%	[Gantt bar: 16-May-14 to 16-May-14, 0% complete]															
ARDD0629	IC/SO Approval of DDA for Waterworks, Drainage & Utility Diversions	75	75	16-May-14	29-Aug-14			0%	[Gantt bar: 16-May-14 to 29-Aug-14, 0% complete]															
ARDD0630	Gov't Approval of Submissions for Waterworks, Drainage & Utility Diversions	75	75	16-May-14	29-Aug-14			0%	[Gantt bar: 16-May-14 to 29-Aug-14, 0% complete]															
ARDD0622-1	IC/SO Approval of AIP for Waterworks, Drainage & Utility Diversions	0	0		21-Mar-14			0%	[Gantt bar: 21-Mar-14 to 21-Mar-14, 0% complete]															
<b>MTR Protection Works</b>																								
ARDD0642-2	Support to GCL to prepare E-Doc	20	20	21-Feb-14	20-Mar-14			0%	[Gantt bar: 21-Feb-14 to 20-Mar-14, 0% complete]															
ARDD0642-3	Submission to MTR	0	0		20-Mar-14			0%	[Gantt bar: 20-Mar-14 to 20-Mar-14, 0% complete]															
ARDD0642-4	MTR Approval of E-Doc	40	40	21-Mar-14	15-May-14			0%	[Gantt bar: 21-Mar-14 to 15-May-14, 0% complete]															
<b>Viaduct Approach Ramp Retaining Walls</b>																								
<b>Approach Ramp D</b>																								
ARDD0648	Approach D - Receipt of Topographic and Utility Survey	0	0		03-Apr-14			0%	[Gantt bar: 03-Apr-14 to 03-Apr-14, 0% complete]															
ARDD0649	Approach D - Preparation of Approach Ramp D AIP Submission - DP20.00	55	3	04-Nov-13 A	25-Feb-14	04-Nov-13		95%	[Gantt bar: 04-Nov-13 to 25-Feb-14, 95% complete]															
ARDD0650	Approach D - IC/SO Approval of Approach Ramp D AIP - DP20.00	68	68	25-Feb-14	30-May-14			0%	[Gantt bar: 25-Feb-14 to 30-May-14, 0% complete]															
ARDD0651	Approach D - Preparation of Approach Ramp D DDA Submission - DP20.04	30	30	08-Apr-14	20-May-14			0%	[Gantt bar: 08-Apr-14 to 20-May-14, 0% complete]															
ARDD0652	Approach D - IC/SO Approval of Approach Ramp D DDA - DP20.04	75	75	20-May-14	02-Sep-14			0%	[Gantt bar: 20-May-14 to 02-Sep-14, 0% complete]															
<b>Approach Ramp C</b>																								
ARDD0654	Approach C - Receipt of Topographic and Utility Survey	0	0		20-May-14			0%	[Gantt bar: 20-May-14 to 20-May-14, 0% complete]															
ARDD0655	Approach C - Preparation of Approach Ramp C AIP Submission - DP20.00 Update	30	30	20-May-14	01-Jul-14			0%	[Gantt bar: 20-May-14 to 01-Jul-14, 0% complete]															
<b>Approach Ramp B</b>																								
ARDD0660	Approach B - Receipt of Topographic and Utility Survey	0	0		03-Apr-14			0%	[Gantt bar: 03-Apr-14 to 03-Apr-14, 0% complete]															
ARDD0661	Approach B - Preparation of Approach Ramp B AIP Submission - DP20.00 Update	55	3	09-Dec-13 A	25-Feb-14	09-Dec-13		95%	[Gantt bar: 09-Dec-13 to 25-Feb-14, 95% complete]															
ARDD0662	Approach B - IC/SO Approval of Approach Ramp B AIP - DP20.00	68	68	25-Feb-14	30-May-14			0%	[Gantt bar: 25-Feb-14 to 30-May-14, 0% complete]															
ARDD0663	Approach B - Preparation of Approach Ramp B DDA Submission - DP20.02	30	30	08-Apr-14	20-May-14			0%	[Gantt bar: 08-Apr-14 to 20-May-14, 0% complete]															
ARDD0664	Approach B - IC/SO Approval of Approach Ramp B DDA - DP20.02	75	75	20-May-14	02-Sep-14			0%	[Gantt bar: 20-May-14 to 02-Sep-14, 0% complete]															
<b>Approach A</b>																								
ARDD0666	Approach A - Receipt of Topographic and Utility Survey	0	0		20-May-14			0%	[Gantt bar: 20-May-14 to 20-May-14, 0% complete]															
ARDD0667	Approach A - Preparation of Approach Ramp A AIP Submission - DP20.00 Update	30	30	20-May-14	01-Jul-14			0%	[Gantt bar: 20-May-14 to 01-Jul-14, 0% complete]															
<b>Approach F</b>																								
ARDD0672	Approach F - Receipt of Topographic and Utility Survey	0	0		20-May-14			0%	[Gantt bar: 20-May-14 to 20-May-14, 0% complete]															
ARDD0673	Approach F - Preparation of Approach Ramp F AIP Submission - DP21.00 Update	40	40	20-May-14	15-Jul-14			0%	[Gantt bar: 20-May-14 to 15-Jul-14, 0% complete]															
<b>Viaduct Pavement</b>																								
ARDD865	Viaduct Pavement - Preparation of AIP Submission - BP02.00	20	20	10-Mar-14*	04-Apr-14			0%	[Gantt bar: 10-Mar-14 to 04-Apr-14, 0% complete]															
ARDD867	Viaduct Pavement - IC/SO Approval of AIP - BP02.00	68	68	07-Apr-14	09-Jul-14			0%	[Gantt bar: 07-Apr-14 to 09-Jul-14, 0% complete]															
<b>Signs, Markings and Street Furniture</b>																								
ARDD0683	IC/SO Approval of Signs, Markings & Street Furniture AIP - BP03.00	68	68	21-Feb-14	27-May-14			0%	[Gantt bar: 21-Feb-14 to 27-May-14, 0% complete]															
<b>Landscape</b>																								
ARDD0691	Confirm Acceptance of Reference Design LVIA	0	0		21-Feb-14			0%	[Gantt bar: 21-Feb-14 to 21-Feb-14, 0% complete]															
ARDD0692	Prepare Outline Planting Plans	20	20	21-Feb-14	20-Mar-14			0%	[Gantt bar: 21-Feb-14 to 20-Mar-14, 0% complete]															
ARDD0693	Prepare Outline Irrigation Plans	20	20	21-Feb-14	20-Mar-14			0%	[Gantt bar: 21-Feb-14 to 20-Mar-14, 0% complete]															
ARDD0694	Preparation of AIP Submission for landscape works	10	10	21-Mar-14	03-Apr-14			0%	[Gantt bar: 21-Mar-14 to 03-Apr-14, 0% complete]															





	Actual Work
	Planned Bar
	Critical Bar
	Milestone

Date	Revision	Checked	Approved
21-Feb-14	3M-Rolling Progr Up...	SMC	

**Tuen Mun - Chek Lap Kok Southern Connection**  
**3-Month Rolling Programme (Page 10 of 19 Pages)**  
**(Progress as of 21-Feb-14)**

**DWG. No.:**  
**J3518/GCL/PGM/3MRP - W37**

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Duration % Complete	2014													
									February					March				April			May	
									27	03	10	17	24	03	10	17	24	31	07	14	21	28
ARDD0695	Updated LVIA Submission to Gov't Depts	10	10	04-Apr-14	17-Apr-14			0%														
ARDD0696	IC/SO Approval of AIP for landscape works - BP22.00	68	68	18-Apr-14	22-Jul-14			0%														
<b>Segment Target Geometry And Erection Engineering</b>																						
<b>Viaduct B</b>																						
ARDD0712	Viaduct B - Erection Sequence Analysis	20	16	17-Jan-14 A	14-Mar-14	17-Jan-14		20%														
ARDD0713	Viaduct B - Target Geometry Analysis	20	16	10-Feb-14 A	14-Mar-14	10-Feb-14		20%														
ARDD0714	Viaduct B - Segment Geometry Schedules	10	9	10-Feb-14 A	05-Mar-14	10-Feb-14		10%														
ARDD0714-1	Viaduct B - Final Erection Geometry	0	0		05-Mar-14			0%														
<b>Viaduct E5 and E6</b>																						
ARDD0732	Viaduct E5 & E6 - Erection Sequence Analysis	30	24	17-Jan-14 A	26-Mar-14	17-Jan-14		20%														
ARDD0733	Viaduct E5 & E6 - Target Geometry Analysis	30	27	10-Feb-14 A	31-Mar-14	10-Feb-14		10%														
ARDD0734	Viaduct E5 & E6 - Segment Geometry Schedules	10	10	01-Apr-14	14-Apr-14			0%														
ARDD0734-1	Viaduct E5 & E6 - Final Erection Geometry	0	0		14-Apr-14			0%														
<b>Viaduct E7 &amp; E8</b>																						
ARDD0737	Viaduct E7 & E8 - Erection Sequence Analysis	30	24	17-Jan-14 A	26-Mar-14	17-Jan-14		20%														
ARDD0738	Viaduct E7 & E8 - Target Geometry Analysis	30	30	27-Mar-14	07-May-14			0%														
ARDD0739	Viaduct E7 & E8 - Segment Geometry Schedules	10	10	08-May-14	21-May-14			0%														
<b>Viaduct E2</b>																						
ARDD0747	Viaduct E2 - Erection Sequence Analysis	30	24	17-Jan-14 A	26-Mar-14	17-Jan-14		20%														
ARDD0748	Viaduct E2 - Target Geometry Analysis	30	24	10-Feb-14 A	26-Mar-14	10-Feb-14		20%														
ARDD0749	Viaduct E2 - Segment Geometry Schedules	10	10	27-Mar-14	09-Apr-14			0%														
ARDD0749-1	Viaduct E2 - Final Erection Geometry	0	0		09-Apr-14			0%														
<b>Reprovisioning Works</b>																						
<b>Chung Tung Road Realignment Viaduct B</b>																						
ARDD0804	Viaduct B - IC/SO Approval of AIP of CTR Reprovisioning Works AIP - BP33.00	68	20	05-Mar-14 A	21-Mar-14	05-Mar-14		70%														
ARDD0805	Viaduct B - Preparation of CTR Reprovisioning Works DDA - BP33.01	30	15	26-Dec-13 A	13-Mar-14	26-Dec-13		50%														
ARDD0806	Viaduct B - Submission of CTR Reprovisioning Works DDA - BP33.01	0	0		13-Mar-14			0%														
ARDD0807	Viaduct B - IC/SO Approval of CTR Reprovisioning Works DDA - BP33.01	75	75	14-Mar-14	26-Jun-14			0%														
ARDD0804-1	Viaduct B - IC/SO Approval of AIP of CTR Reprovisioning Works AIP - BP33.00	0	0		21-Mar-14			0%														
<b>Chung Tung Road Realignment Viaduct C</b>																						
ARDD0875	Viaduct C - Preparation of Roadworks for Realignment of CTR	10	0	21-Oct-13 A	04-Feb-14 A	21-Oct-13	04-Feb-14	100%														
ARDD0877	Viaduct C - Preparation of Associated Civil Reprovisioning	20	0	04-Nov-13 A	04-Feb-14 A	04-Nov-13	04-Feb-14	100%														
ARDD0881	Viaduct C - IC/SO Approval of AIP of CTR Reprovisioning Works AIP - BP34.00	68	61	04-Feb-14 A	19-May-14	04-Feb-14		10%														
ARDD0883	Viaduct C - Preparation of CTR Reprovisioning Works DDA - BP34.01	30	21	26-Dec-13 A	21-Mar-14	26-Dec-13		30%														
ARDD0885	Viaduct C - Submission of CTR Reprovisioning Works DDA - BP34.01	0	0		21-Mar-14			0%														
ARDD0887	Viaduct C - IC/SO Approval of CTR Reprovisioning Works DDA - BP34.01	75	75	28-Apr-14	11-Aug-14			0%														

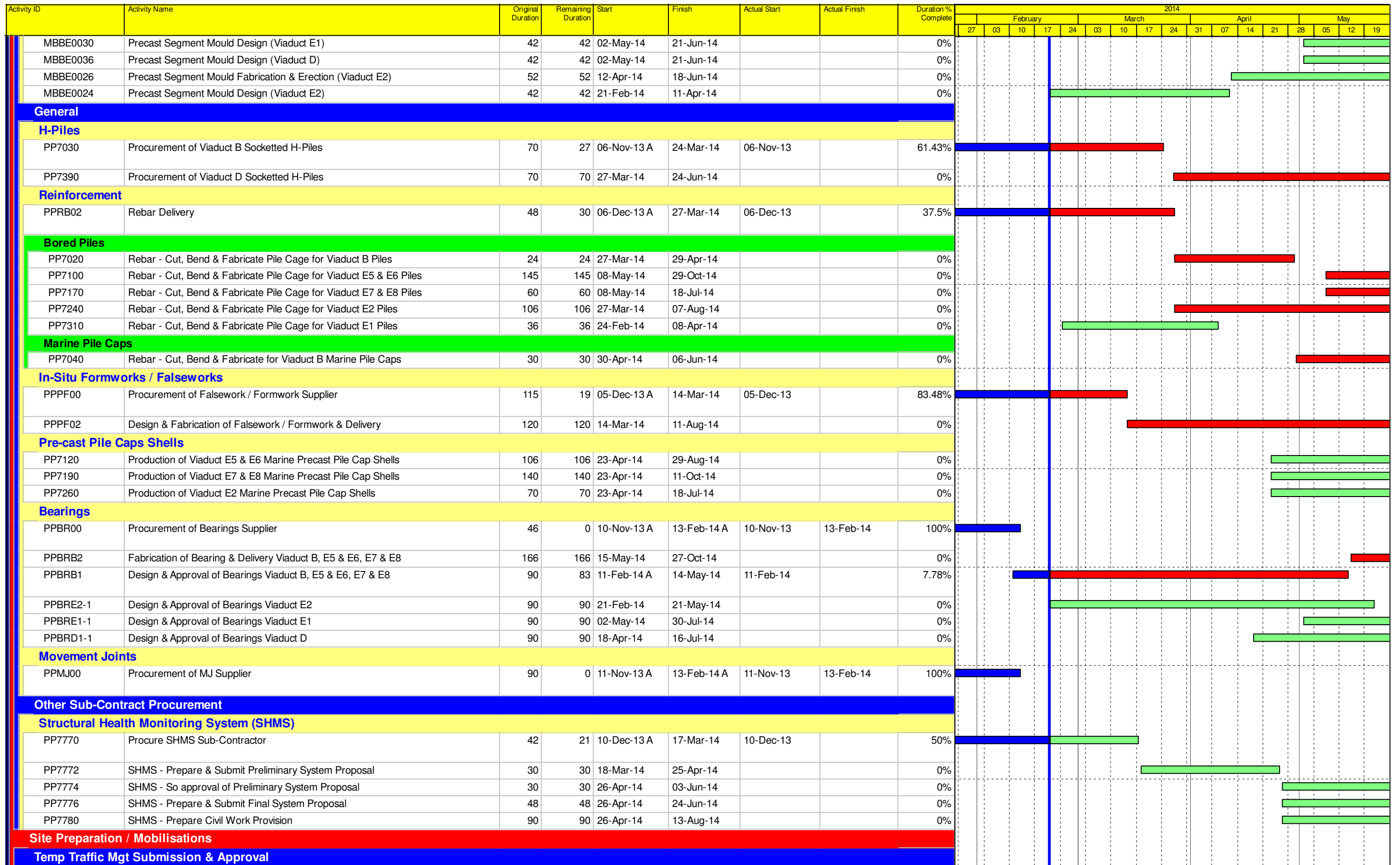
	Actual Work	Date	Revision	Checked	Approved
	Planned Bar	21-Feb-14	3M-Rolling Progr Up...	SMC	
	Critical Bar				
	Milestone				





**Tuen Mun - Chek Lap Kok Southern Connection**  
**3-Month Rolling Programme (Page 11 of 19 Pages)**  
**(Progress as of 21-Feb-14)**

DWG. No.:  
**J3518/GCL/PGM/3MRP - W37**

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Duration % Complete	2014													
									February				March				April					
									27	03	10	17	24	03	10	17	24	31	07	14	21	28
ARDD0881-1	Viaduct C - IC/SO Approval of AIP of CTR Reprovisioning Works AIP - BP34.00	0	0		19-May-14			0%														
<b>Remaining Reprovisioning Works (Viaduct A&amp;D)</b>																						
ARDD0812	Viaduct A&D - Preparation of AIP Remaining Reprovisioning Works V-A&D BP35.00	20	20	14-Mar-14	10-Apr-14			0%														
ARDD0813	Viaduct A&D - IC/SO Approval of AIP for Remaining Reprovisioning Works V-A&D BP35.00	68	68	11-Apr-14	15-Jul-14			0%														
ARDD0814	Viaduct A&D - Preparation of DDA of Remaining Reprovisioning Works V-A&D BP35.01	20	20	16-May-14	12-Jun-14			0%														
<b>Emergency Gates</b>																						
ARDD0854	IC/SO Approval of Combined AIP/DDA for Emergency Gates - BP30.01	75	15	26-Nov-13 A	13-Mar-14	26-Nov-13		80%														
ARDD0854-1	IC/SO Approval of Combined AIP/DDA for Emergency Gates - BP30.01	0	0		13-Mar-14			0%														
<b>ESS Substation</b>																						
ARDD0818	Preparation of Combined AIP/DDA for ESS Substation - BP31.01	30	30	21-Feb-14	03-Apr-14			0%														
ARDD0819	IC/SO Approval of Combined AIP/DDA for ESS Substation - BP31.01	75	75	04-Apr-14	17-Jul-14			0%														
<b>CEDD Access Track</b>																						
ARDD0808	Preparation of Combined AIP/DDA for CEDD Access Track - BP32.01	30	15	09-Sep-13 A	13-Mar-14	09-Sep-13		50%														
<b>Construction Traffic Impact Assessment</b>																						
ARDD0810	Prepare CTIA - AP05.00	20	20	21-Feb-14*	20-Mar-14			0%														
ARDD0811	IC/SO Approval of CTIA - AP05.00	75	75	21-Mar-14	03-Jul-14			0%														
<b>Major Procurement</b>																						
<b>Deck Segment Installation Equipment</b>																						
PR60076	Gantry Sub-Con procurement	100	0	21-Sep-13 A	29-Jan-14 A	21-Sep-13	29-Jan-14	100%														
<b>Launching Gantry 1</b>																						
PR60078-2	Launching Gantry 1 Design	122	122	21-Feb-14	22-Jun-14			0%														
PR60078-4	Launching Gantry 1 Fabrication	151	151	11-Apr-14	08-Sep-14			0%														
<b>Lifting Frames</b>																						
PR60098	Lifting Frame Technical Specs & Order	76	76	03-Apr-14	17-Jun-14			0%														
<b>Unloading Gantries</b>																						
PR60102	Unloading Gantries Technical Specs / Discussion	14	9	17-Jan-14 A	01-Mar-14	17-Jan-14		35.71%														
PR60103	Unloading Gantries Procurement Review & Order	32	32	02-Mar-14	02-Apr-14			0%														
<b>Type 1</b>																						
PR60104	Unloading Gantry Type 1 Design	122	122	03-Apr-14	02-Aug-14			0%														
PR60106	Unloading Gantry Type 1 Fabrication	185	185	03-May-14	03-Nov-14			0%														
<b>Deck Segments &amp; Precast Pile Cap Shells</b>																						
<b>Preliminaries</b>																						
MBBC0010	Set Up Pile Cap Shell Casting Yard & Beds etc	161	48	02-Dec-13 A	23-Apr-14	02-Dec-13		70%														
MBBE0010	Set Up Precast Segment Casting Yard & Beds etc	176	86	15-Oct-13 A	10-Jun-14	15-Oct-13		50.91%														
MBBC0012	Pile Cap Shell Mould Design (M1 & M2)	42	42	21-Feb-14	11-Apr-14			0%														
MBBC0014	Pile Cap Shell Mould Fabrication & Erection (M1 & M2)	55	55	12-Apr-14	21-Jun-14			0%														
MBBE0012	Precast Segment Mould Design (Viaduct B)	42	42	21-Feb-14	11-Apr-14			0%														
MBBE0014	Precast Segment Mould Fabrication & Erection (Viaduct B)	52	52	12-Apr-14	18-Jun-14			0%														
MBBE0020	Precast Segment Mould Fabrication & Erection (Viaduct E5, E6, E7 & E8)	52	52	12-Apr-14	18-Jun-14			0%														
MBBE0018	Precast Segment Mould Design (Viaduct E5, E6, E7 & E8)	42	42	21-Feb-14	11-Apr-14			0%														

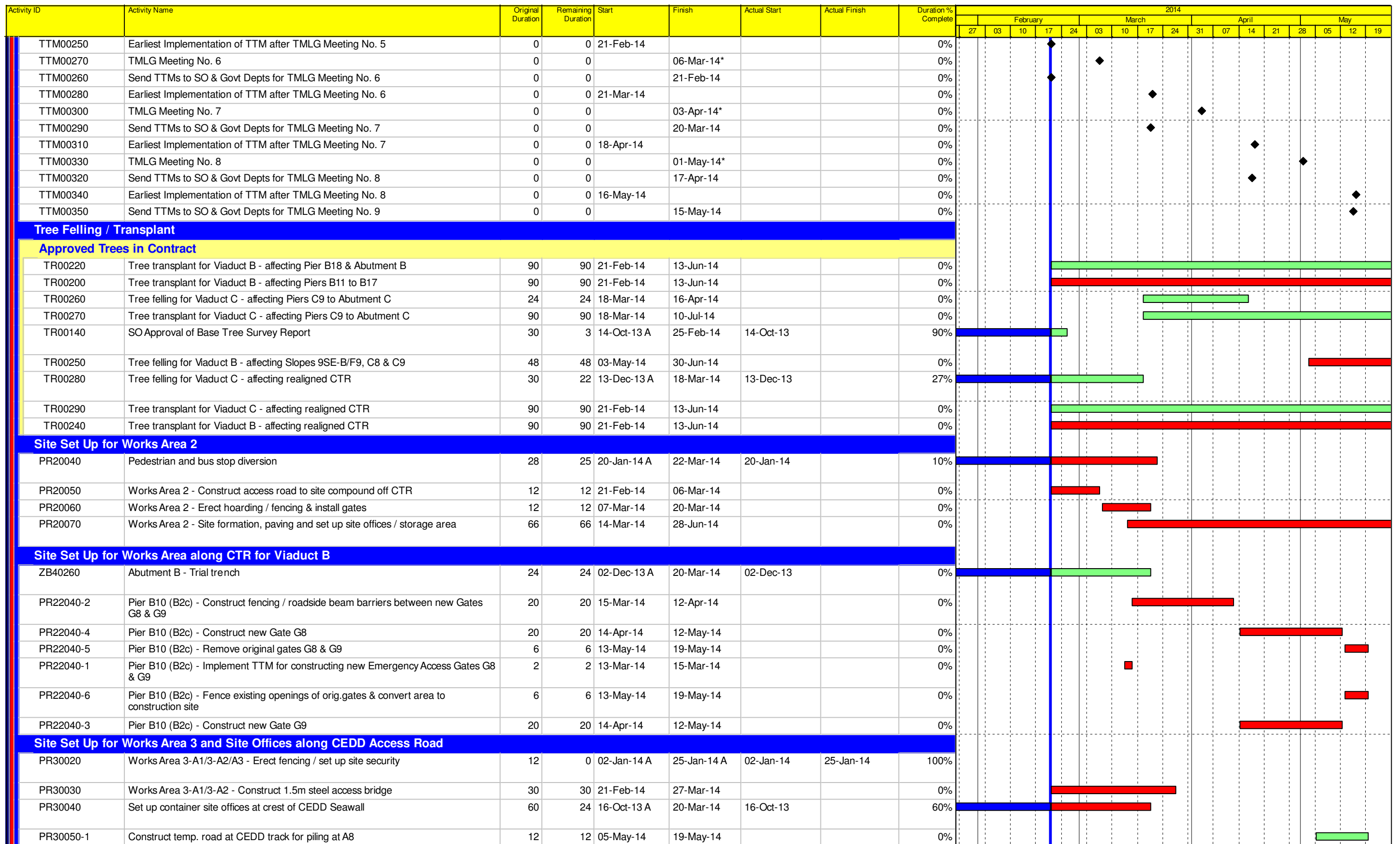
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	21-Feb-14	3M-Rolling Progr Up...	SMC			







	Actual Work		
	Planned Bar		
	Critical Bar		
	Milestone		
Date	Revision	Checked	Approved
21-Feb-14	3M-Rolling Progr Up...	SMC	

**Tuen Mun - Chek Lap Kok Southern Connection**  
**3-Month Rolling Programme (Page 13 of 19 Pages)**  
**(Progress as of 21-Feb-14)**

**DWG. No.:**  
**J3518/GCL/PGM/3MRP - W37**

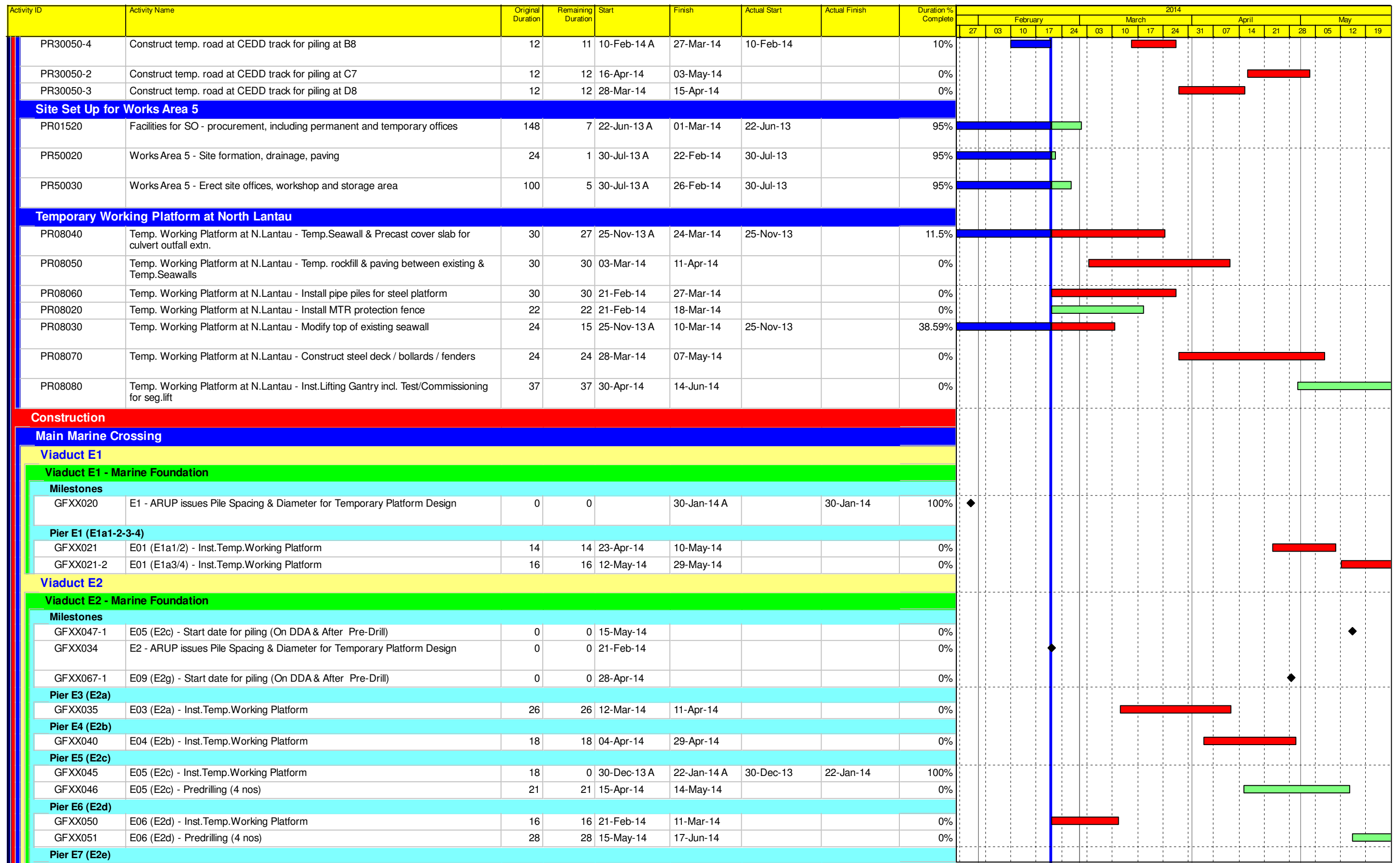


	Actual Work		
	Planned Bar		
	Critical Bar		
	Milestone		
Date	Revision	Checked	Approved
21-Feb-14	3M-Rolling Progr Up...	SMC	

Tuen Mun - Chek Lap Kok Southern Connection  
**3-Month Rolling Programme (Page 14 of 19 Pages)**  
 (Progress as of 21-Feb-14)

DWG. No.:  
**J3518/GCL/PGM/3MRP - W37**

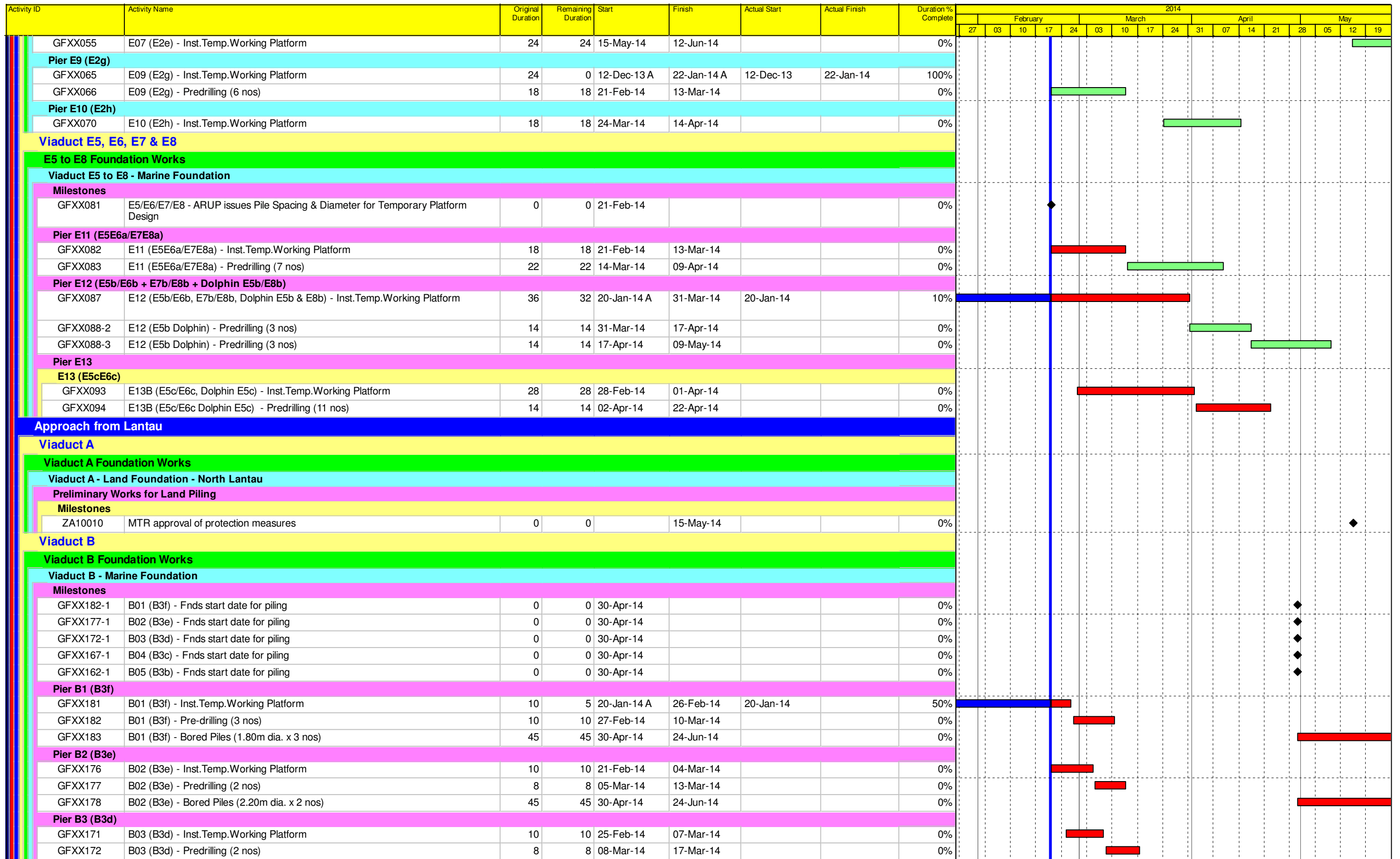




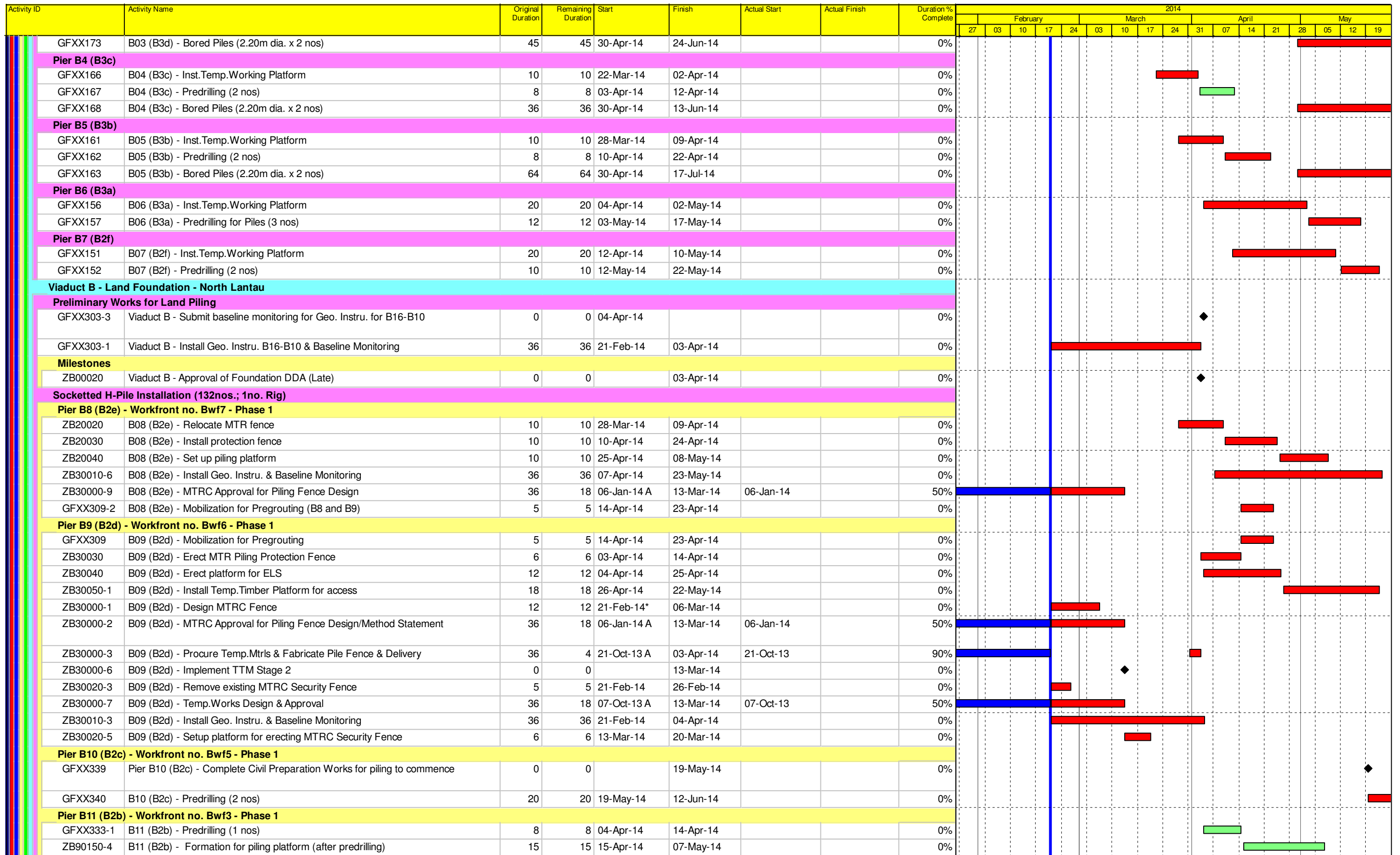
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<span style="color:green">■</span>	Planned Bar	Date	Revision	Checked	Approved
<span style="color:red">■</span>	Critical Bar	21-Feb-14	3M-Rolling Progr Up...	SMC	
◆	Milestone				

**Tuen Mun - Chek Lap Kok Southern Connection**  
**3-Month Rolling Programme (Page 15 of 19 Pages)**  
**(Progress as of 21-Feb-14)**

**DWG. No.:**  
**J3518/GCL/PGM/3MRP - W37**



<ul style="list-style-type: none"> <li><span style="color: blue;">█</span> Actual Work</li> <li><span style="color: green;">█</span> Planned Bar</li> <li><span style="color: red;">█</span> Critical Bar</li> <li>◆ Milestone</li> </ul>	<table border="1"> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> <tr> <td>21-Feb-14</td> <td>3M-Rolling Progr Up...</td> <td>SMC</td> <td></td> </tr> </table>	Date	Revision	Checked	Approved	21-Feb-14	3M-Rolling Progr Up...	SMC		<p><b>Tuen Mun - Chek Lap Kok Southern Connection</b></p> <p><b>3-Month Rolling Programme (Page 16 of 19 Pages)</b></p> <p><b>(Progress as of 21-Feb-14)</b></p>	<p><b>DWG. No.:</b></p> <p><b>J3518/GCL/PGM/3MRP - W37</b></p>
Date	Revision	Checked	Approved								
21-Feb-14	3M-Rolling Progr Up...	SMC									

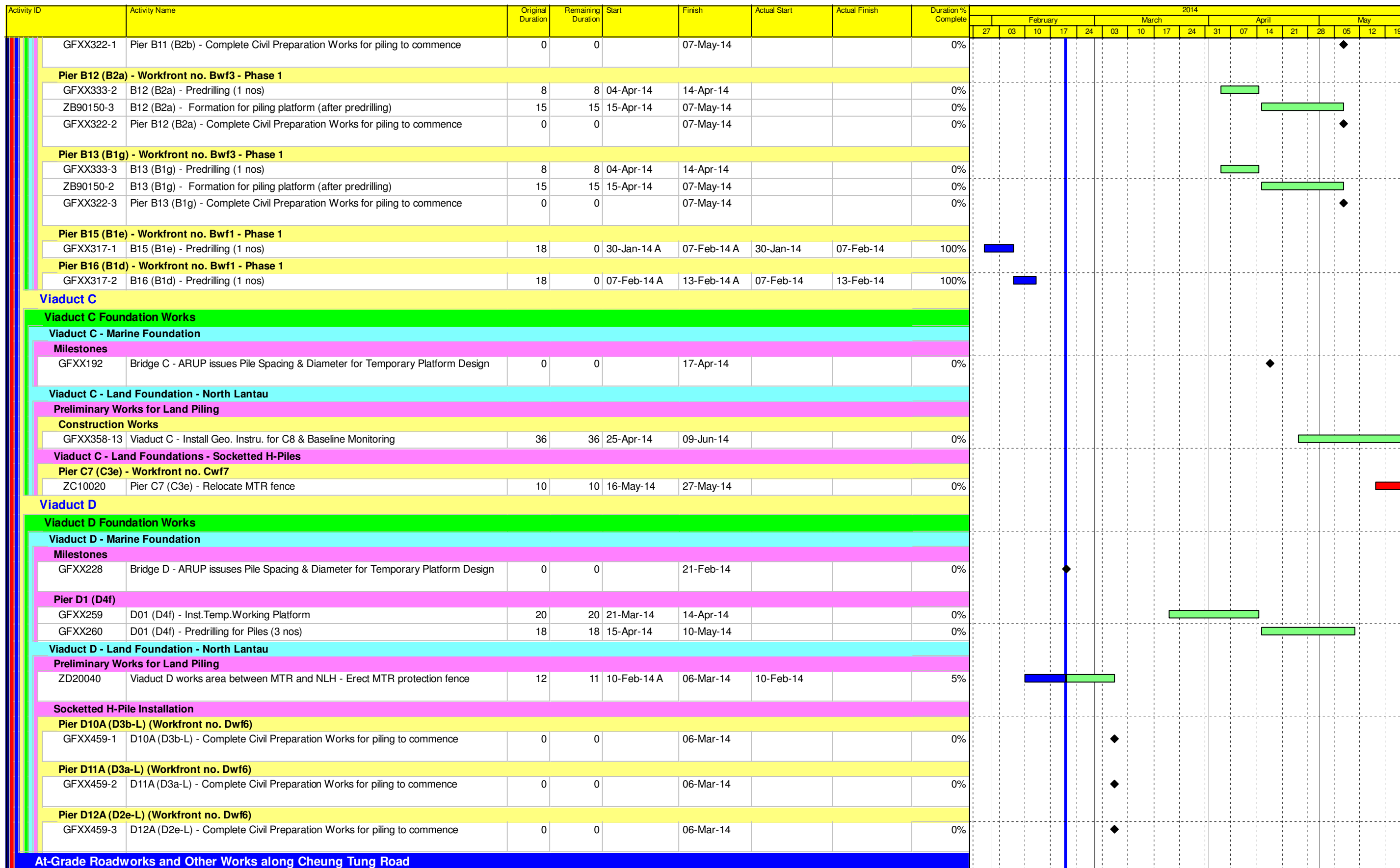


[Blue Bar]	Actual Work
[Green Bar]	Planned Bar
[Red Bar]	Critical Bar
[Diamond]	Milestone

Date	Revision	Checked	Approved
21-Feb-14	3M-Rolling Progr Up...	SMC	

**Tuen Mun - Chek Lap Kok Southern Connection**  
**3-Month Rolling Programme (Page 17 of 19 Pages)**  
**(Progress as of 21-Feb-14)**

**DWG. No.:**  
**J3518/GCL/PGM/3MRP - W37**



	Date	Revision	Checked	Approved	<b>Tuen Mun - Chek Lap Kok Southern Connection</b> <b>3-Month Rolling Programme (Page 18 of 19 Pages)</b> <b>(Progress as of 21-Feb-14)</b>	<b>DWG. No.:</b> <b>J3518/GCL/PGM/3MRP - W37</b>
	21-Feb-14	3M-Rolling Progr Up...	SMC			

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Duration % Complete	2014																		
									February				March				April				May						
									27	03	10	17	24	03	10	17	24	31	07	14	21	28	05	12	19		
<b>Re-alignment of Cheung Tung Road adjacent to Viaduct B</b>																											
<b>Viaduct B Slope Works</b>																											
SWVB0020	Slope 9SE-B/C8, B/C9, B/F9 - Erect safety fence on CTR	24	24	24-Feb-14	22-Mar-14			0%																			
SWVB0010	Setup TTM for slopework for Slope 9SE-B/C8, B/C9, B/F9	2	2	21-Feb-14	22-Feb-14			0%																			
SWVB0030-1	Slope 9SE-B/C8 - Form haul road	30	30	24-Mar-14	02-May-14			0%																			
SWVB0030-2	Slope 9SE-B/C9 - Form haul road	30	30	24-Mar-14	02-May-14			0%																			
SWVB0030-3	Slope 9SE-B/F9 - Form haul road	30	30	24-Mar-14	02-May-14			0%																			
<b>Slope 9SE-B/C9</b>																											
<b>Zone A</b>																											
SWVB1010	9SE-B/C9 Zone A - Form access track over crest of slope	6	6	24-Mar-14	29-Mar-14			0%																			
SWVB1020	9SE-B/C9 Zone A - Excav. to +25.00	2	2	31-Mar-14	01-Apr-14			0%																			
SWVB1030	9SE-B/C9 Zone A - Soil nail pull out test	6	6	02-Apr-14	09-Apr-14			0%																			
SWVB1040	9SE-B/C9 Zone A - Soil nail 18 nr.@ +26.5	10	10	10-Apr-14	24-Apr-14			0%																			
SWVB1050	9SE-B/C9 Zone A - Excav. to +23.00	3	3	25-Apr-14	28-Apr-14			0%																			
SWVB1060	9SE-B/C9 Zone A - Soil nail 24 nr.@ +24.5	11	11	29-Apr-14	13-May-14			0%																			
SWVB1070	9SE-B/C9 Zone A - Excav. to +22.00	3	3	14-May-14	16-May-14			0%																			
SWVB1080	9SE-B/C9 Zone A - Raking Drain 11 nr @ +23.5	4	4	17-May-14	21-May-14			0%																			
<b>Slope 9SE-B/C8</b>																											
SWVB2010	9SE-B/C8 - Form access track over crest of slope	2	2	24-Mar-14	25-Mar-14			0%																			
SWVB2020	9SE-B/C8 - Soil nail pull out test	3	3	26-Mar-14	28-Mar-14			0%																			
SWVB2030	9SE-B/C8 - Soil nail 39 nr. @ +21.0	10	10	29-Mar-14	10-Apr-14			0%																			
SWVB2040	9SE-B/C8 - Excav. to +18.50	4	4	11-Apr-14	15-Apr-14			0%																			
SWVB2050	9SE-B/C8 - Soil nail 44 nr. @ +19.0	11	11	16-Apr-14	02-May-14			0%																			
SWVB2060	9SE-B/C8 - Excav. to +16.50	5	5	03-May-14	09-May-14			0%																			
SWVB2070	9SE-B/C8 - Soil nail 53 nr. @ +17.0	12	12	10-May-14	23-May-14			0%																			

<ul style="list-style-type: none"> <li><span style="color: blue;">■</span> Actual Work</li> <li><span style="color: green;">■</span> Planned Bar</li> <li><span style="color: red;">■</span> Critical Bar</li> <li>◆ Milestone</li> </ul>	Date	Revision	Checked	Approved	<b>Tuen Mun - Chek Lap Kok Southern Connection</b> <b>3-Month Rolling Programme (Page 19 of 19 Pages)</b> <b>(Progress as of 21-Feb-14)</b>	<b>DWG. No.:</b> <b>J3518/GCL/PGM/3MRP - W37</b>
	21-Feb-14	3M-Rolling Progr Up...	SMC			

Appendix C

# Environmental Mitigation and Enhancement Measure Implementation Schedules

(Adopted from: CINOTECH (2011) Agreement No.  
CE35/2011 EP Baseline Environmental Monitoring for  
Hong Kong-Zhuhai-Macao Bridge Tuen Mun-Chek Lap  
Kok Link – Investigation. Updated EM&A Manual for  
Tuen Mun-Chek Lap Kok Link)

*Contract No. HY/2012/07  
Tuen Mun – Chek Lap Kok Link  
Southern Connection Viaduct Section  
Environmental Mitigation and Enhancement Measure Implementation Schedule*

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
<b>AIR QUALITY</b>									
4.8.1	3.8	An effective watering programme of eight daily watering with complete coverage, is estimated to reduce by 50%. This is recommended for all areas in order to reduce dust levels to a minimum;	All areas / throughout construction period	Contractor	TMEIA Avoid smoke impacts and disturbance		Y		n/a
4.8.1	3.8	The Contractor shall, to the satisfaction of the Engineer, install effective dust suppression measures and take such other measures as may be necessary to ensure that at the Site boundary and any nearby sensitive receiver, dust levels are kept to acceptable levels.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		n/a
4.8.1	3.8	The Contractor shall not burn debris or other materials on the works areas.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		n/a
4.8.1	3.8	In hot, dry or windy weather, the watering programme shall maintain all exposed road surfaces and dust sources wet.	All unpaved haul roads / throughout construction period in hot, dry or windy weather	Contractor	TMEIA Avoid smoke impacts and disturbance		Y		n/a
4.8.1	3.8	Where breaking of oversize rock/concrete is required, watering shall be implemented to control dust. Water spray shall be used during the handling of fill material at the site and at active cuts, excavation and fill sites where dust is likely to be created.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		n/a
4.8.1	3.8	Open dropping heights for excavated materials shall be controlled to a maximum height of 2m to minimise the fugitive dust arising from unloading.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		n/a
4.8.1	3.8	During transportation by truck, materials shall not be loaded to a level higher than the side and tail boards, and	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
		shall be dampened or covered before transport.							
4.8.1	3.8	Materials having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. The tarpaulin shall be properly secured and shall extend at least 300mm over the edges of the side and tail boards.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		n/a
4.8.1	3.8	No earth, mud, debris, dust and the like shall be deposited on public roads. Wheel washing facility shall be usable prior to any earthworks excavation activity on the site.	All site exits / throughout construction period	Contractor	TMEIA Avoid dust		Y		n/a
4.8.1	3.8	Areas of exposed soil shall be minimised to areas in which works have been completed shall be restored as soon as is practicable.	All exposed surfaces / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		n/a
4.8.1	3.8	All stockpiles of aggregate or spoil shall be enclosed or covered and water applied in dry or windy condition.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		n/a
4.11	Section 3	EM&A in the form of 1 hour and 24 hour dust monitoring and site audit	All representative existing ASRs / throughout construction period	Contractor	EM&A Manual		Y		n/a
<b>NOISE</b>									
5.11	Section 4	Noise monitoring	All existing representative sensitive receivers / during North Lantau Viaduct construction	Contractor	EM&A Manual		Y		n/a
<b>WATER QUALITY</b>									
<i>General Marine Works</i>									
6.10	-	Bored piling to be undertaken within a metal casing.	Marine viaducts of TM-CLKL and HKLR/ bored piling	Contractor	TM-EIAO		Y		n/a
6.10	-	Barges and hopper dredgers shall have tight fitting seals to their bottom openings to prevent leakage of material.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO		Y		n/a



EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
					permit conditions.				
6.10	-	Any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		n/a
6.10	-	Loading of barges and hoppers shall be controlled to prevent splashing of dredged material to the surrounding water. Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		n/a
6.10	-	Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		n/a
6.10	-	Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action;	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		n/a
6.10	-	All vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		n/a
6.10	-	The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		n/a
<i>Temporary Staging work</i>									
	5.2	Regular inspection for the accumulation of floating refuse and collection of floating refuse if required	During temporary staging works	Contractor			Y		n/a
	5.2	Provision of temporary drainage system on the temporary staging for collection of construction site runoff to allow appropriate treatment before discharge into the sea	During temporary staging works	Contractor			Y		n/a
	5.2	Wastewater generated from construction works such as bored / drilling water will be collected, treated, neutralized and de-silted through silt trap or sedimentation tank before disposal	During temporary staging works	Contractor			Y		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
	5.2	One additional water quality monitoring station is proposed at station SR4a. In case elevated SS or turbidity is identified during the water quality monitoring, the source of pollution will be tracked down and be removed as soon as possible. In case depletion of dissolved oxygen is identified, artificial aeration will be arranged at the monitoring station SR4a,	During temporary staging works	Contractor			Y		n/a
<i>Land Works</i>									
6.10	-	Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		n/a
6.10	-	Sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		n/a
6.10	-	Storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		n/a
6.10	-	Silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		n/a
6.10	-	Temporary access roads should be surfaced with crushed stone or gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		n/a
6.10	-	Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		n/a
6.10	-	Measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage	All areas/ throughout construction period	Contractor	TM-EIAO		Y		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
		system.							
6.10	-	Open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		n/a
6.10	5.8	Manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		n/a
6.10	-	Discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		n/a
6.10	-	All vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		n/a
6.10	-	Wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		n/a
6.10	-	Section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		n/a
6.10	-	Wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		n/a
6.10	-	Vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		n/a
6.10	-	The Contractor shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		n/a
6.10	-	Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal	All areas/ throughout	Contractor	TM-EIAO Waste		Y		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
		Ordinance.	construction period		Disposal Ordinance				
6.10	-	All fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		n/a
6.10	-	Surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		n/a
6.10	-	Roadside gullies to trap silt and grit shall be provided prior to discharging the stormwater into the marine environment. The sumps will be maintained and cleaned at regular intervals.	Roadside/design and operation	Design Consultant/ Contractor	TM-EIAO	Y		Y	n/a
6.10	Section 5	All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good working practice.	All areas/ throughout construction period	Contractor	EM&A Manual		Y		n/a
<i>Water Quality Monitoring</i>									
6.10	Section 5	Water quality monitoring shall be undertaken for suspended solids, turbidity, and dissolved oxygen. Nutrients and metal parameters shall also be measured for Mf sediment operations (only HKBCF and HKLR required handling of Mf sediment) during baseline, backfilling and post construction period. One year operation phase water quality monitoring at designated stations	Designated monitoring stations as defined in EM&A Manual, Section 5/ Before, through-out marine construction period, post construction and monthly operational phase water quality monitoring for a year.	Contractor	EM&A Manual		Y	Y	n/a
<b>ECOLOGY</b>									
8.14	6.3	Specification for and implement pre, during and post construction dolphin abundance monitoring.	All Areas/Detailed Design/ during construction works/post construction	Design Consultant/ Contractor	TMEIA	Y	Y	Y	n/a
8.14	6.3	Specification for bored piling monitoring	Detailed Design	Design Consultant	TMEIA	Y			n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
8.14	6.3	Implement any recommendations of the bored piling monitoring	Southern marine viaduct/Throughout construction during bored piling	Contractor	TMEIA		Y		n/a
8.14	6.3,6.5	Avoidance of peak CWD calving season in May and June for driving of metal caissons during bored piling works	Southern marine viaduct/ May and June during bored piling	Contractor	TMEIA		Y		n/a
8.14	6.3,6.5	Specification and implementation of 250m dolphin exclusion zone.	All marine bored piling and temporary staging works areas/Detailed Design/during all marine bored piling and temporary staging works	Design Consultant/ Contractor	TMEIA	Y	Y		n/a
8.15	6.3, 6.5	Specification and deployment of an artificial reef of an area of 3,600m2 in an area where fishing activities are prohibited.	Area of prohibited fishing activities/Detailed Design/towards end of construction period	TM-CLKL/ HKBCF Design Consultant/ TM-CLKL/ HKBCF Contractor	TMEIA	Y		Y	AFCD
8.14	6.3, 6.5	Specification and implementation of marine vessel control specifications	All areas/Detailed Design/during construction works	Design Consultant/ Contractor	TMEIA	Y	Y		n/a
8.14	6.3, 6.5	Design and implementation of acoustic decoupling methods for marine bored piling and the whole lifespan of temporary staging works.	All areas/ Detailed Design/during marine bored piling and temporary staging works	Design Consultant/ Contractor	TMEIA	Y	Y		n/a
8.15	6.3, 6.4	Pre-construction phase survey and coral translocation	Tai Ho Wan (donor site) and Yam Tsui Wan (receptor site) /Detailed Design/Prior to construction	Design Consultant/ Contractor	TMEIA	Y	Y		n/a
8.15	6.5	Audit coral translocation success	Yam Tsui Wan (receptor site)/Post translocation	Contractor	TMEIA		Y		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
7.13	6.5	Undertaken gabion wall works in Stream NL1 in the dry season	North Lantau slope works/dry season/construction phase	Contractor	TMEIA		Y		n/a
7.13	6.5	The loss of habitat shall be supplemented by enhancement planting in accordance with the landscape mitigation schedule.	All areas / As soon as accessible	Contractor	TMEIA		Y		AFCD/LCSD
7.13	6.5	Spoil heaps shall be covered at all times.	All areas / Throughout construction period	Contractor	TMEIA		Y		n/a
7.13	6.5	Avoid damage and disturbance to the remaining and surrounding natural habitat	All areas / Throughout construction period	Contractor	TMEIA		Y		n/a
7.13	6.5	Placement of equipment in designated areas within the existing disturbed land	All areas / Throughout construction period	Contractor	TMEIA		Y		n/a
7.13	6.5	Disturbed areas to be reinstated immediately after completion of the works.	All areas / Throughout construction period	Contractor	TMEIA		Y		n/a
7.13	6.5	Construction activities should be restricted to the proposed works boundary	All areas / Throughout construction period	Contractor	TMEIA		Y		n/a
<b>LANDSCAPE AND VISUAL</b>									
10.9	7.6	Round angle, patterned finishes, and oval shaped pier were considered in the viaduct design, and further details will be developed under ACABAS submission (DM3)	All areas/detailed design	Design Consultant	TMEIA	Y			n/a
10.9	7.6	Details of the street furniture will be developed in the detailed design stage (DM4)	All areas/detailed design	Design Consultant	TMEIA	Y			n/a
10.9	7.6	Aesthetic design of the viaduct, retaining wall and other structures will be developed under ACABAS submission (DM5)	All areas/detailed design	Design Consultant	TMEIA	Y			n/a
10.9	7.6	Existing trees on boundary of the Project Area shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
		prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree protection measures will be detailed at Tree Removal Application stage) (CM1)							
10.9	7.6	Trees unavoidably affected by the works shall be transplanted where practical. Trees will be transplanted straight to their final receptor site and not held in a temporary nursery. A detailed Tree Transplanting Specification shall be provided in the Contract Specification. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme (CM2)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		n/a
10.9	7.6	Hillside and roadside screen planting to proposed roads, associated structures and slope works (CM3).	All areas/detailed design/ during construction/post construction	Design Consultant/ Contractor	TMEIA	Y	Y		n/a
10.9	7.6	Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material (in earth tone) (CM4)	All areas/detailed design/ during construction/post construction	Design Consultant/ Contractor	TMEIA	Y	Y		n/a
10.9	7.6	Screening of construction works by hoardings around works area in visually unobtrusive colours, to screen works (CM5)	All areas/detailed design/ during construction/post construction	Design Consultant/ Contractor	TMEIA	Y	Y		n/a
10.9	7.6	Control night-time lighting and glare by hooding all lights (CM6)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		n/a
10.9	7.6	Ensure no run-off into water body adjacent to the Project Area (CM7)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		n/a
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (CM8)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
10.9	7.6	Recycle/Reuse all felled trees and vegetation, e.g. mulching (CM9)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		n/a
10.9	7.6	Compensatory tree planting shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006 (CM10).	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		n/a
10.9	7.6	Re-vegetation of affected woodland/shrubland with native species (OM1)	All areas/detailed design/ during construction/ during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	AFCD/HyD/ L CSD
10.9	7.6	Tall buffer screen tree / shrub / climber planting should be incorporated to soften hard engineering structures and facilities (OM2)	All areas/detailed design/ during construction/ during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	HyD/LCSD
10.9	7.6	Streetscape elements (e.g. paving, signage, street furniture, lighting etc.) shall be sensitively designed in a manner that responds to the local context, and minimises potential negative landscape and visual impacts. Lighting units should be directional and minimise unnecessary light spill (OM3)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	HyD/LCSD
10.9	7.6	Structure, ornamental tree / shrub / climber planting should be provided along roadside amenity strips, central dividers and newly formed slopes to enhance the townscape quality and further greenery enhancement (OM4)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	HyD/LCSD
10.9	7.6	Aesthetically pleasing design (visually unobtrusive and non-reflective) as regard to the form, material and finishes	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	HyD
<b>WASTE</b>									



EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
12.6		The Contractor shall identify a coordinator for the management of waste.	Contract mobilisation	Contractor	TMEIA		Y		n/a
12.6		The Contractor shall prepare and implement a Waste Management Plan which specifies procedures such as a ticketing system, to facilitate tracking of loads and to ensure that illegal disposal of wastes does not occur, and protocols for the maintenance of records of the quantities of wastes generated, recycled and disposed. A recording system for the amount of waste generated, recycled and disposed (locations) should be established.	Contract mobilisation	Contractor	TMEIA, Works Branch Technical Circular No. 5/99 for the Trip-ticket System for Disposal of Construction and Demolition Material		Y		n/a
12.6		The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges.	Contract mobilisation	Contractor	TMEIA, Land (Miscellaneous Provisions) Ordinance (Cap 28); Waste Disposal Ordinance (Cap 354); Dumping at Sea Ordinance (Cap 466); Water Pollution Control Ordinance.		Y		n/a
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedures including waste reduction, reuse and recycling.	Contract Mobilisation	Contractor	TMEIA		Y		n/a
12.6	8.1	The extent of cutting operation should be optimised where possible. Earth retaining structures and bored pile walls should be proposed to minimise the extent of cutting.	All areas / throughout construction period	Contractor	TMEIA		Y		n/a
12.6	8.1	Rock armour from the existing seawall should be reused on the new sloping seawall as far as possible	All areas / throughout construction period	Contractor	TMEIA		Y		n/a
12.6	8.1	The site and surroundings shall be kept tidy and litter free.	All areas / throughout	Contractor	TMEIA		Y		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
			construction period						
12.6	8.1	No waste shall be burnt on site.	All areas / throughout construction period	Contractor	TMEIA		Y		n/a
12.6	8.1	Provisions to be made in contract documents to allow and promote the use of recycled aggregates where appropriate.	Detailed Design	Design Consultant	TMEIA	Y			n/a
12.6	8.1	The Contractor shall be prohibited from disposing of C&D materials at any sensitive locations. The Contractor should propose the final disposal sites in the EMP and WMP for approval before implementation.	All areas / throughout construction period	Contractor	TMEIA		Y		n/a
12.6	8.1	Stockpiled material shall be covered by tarpaulin and /or watered as appropriate to prevent windblown dust/ surface run off.	All areas / throughout construction period	Contractor	TMEIA		Y		n/a
12.6	8.1	Excavated material in trucks shall be covered by tarpaulins to reduce the potential for spillage and dust generation.	All areas / throughout construction period	Contractor	TMEIA		Y		n/a
12.6	8.1	Wheel washing facilities shall be used by all trucks leaving the site to prevent transfer of mud onto public roads.	All areas / throughout construction period	Contractor	TMEIA		Y		n/a
12.6	8.1	Standard formwork or pre-fabrication should be used as far as practicable so as to minimise the C&D materials arising. The use of more durable formwork/plastic facing for construction works should be considered. The use of wooden hoardings should be avoided and metal hoarding should be used to facilitate recycling. Purchasing of construction materials should avoid over-ordering and wastage.	All areas / throughout construction period	Contractor	TMEIA		Y		n/a
12.6	8.1	The Contractor should recycle as many C&D materials (this is a waste section) as possible on-site. The public fill and C&D waste should be segregated and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper	All areas / throughout construction period	Contractor	TMEIA		Y		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
		disposal. Where practicable, the concrete and masonry should be crushed and used as fill materials. Steel reinforcement bar should be collected for use by scrap steel mills. Different areas of the sites should be considered for segregation and storage activities.							
12.6	8.1	All falsework will be steel instead of wood.	All areas / throughout construction period	Contractor	TMEIA		Y		n/a
12.6	8.1	<p>Chemical waste producers should register with the EPD. Chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows:</p> <ul style="list-style-type: none"> <li>- suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed;</li> <li>- Having a capacity of &lt;450L unless the specifications have been approved by the EPD; and</li> <li>- Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations. Clearly labelled and used solely for the storage of chemical wastes;</li> <li>- Enclosed with at least 3 sides;</li> <li>- Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest;</li> <li>- Adequate ventilation;</li> <li>- Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and</li> <li>- Incompatible materials are adequately</li> </ul>	All areas / throughout construction period	Contractor	TMEIA		Y		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
		separated.							
12.6	8.1	Waste oils, chemicals or solvents shall not be disposed of to drain,	All areas / throughout construction period	Contractor	TMEIA		Y		n/a
12.6	8.1	Adequate numbers of portable toilets should be provided for on-site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilising them.	All areas / throughout construction period	Contractor	TMEIA		Y		n/a
12.6	8.1	Night soil should be regularly collected by licensed collectors.	All areas / throughout construction period	Contractor	TMEIA		Y		n/a
12.6	8.1	General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins shall be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By-laws. In addition, general refuse shall be cleared daily and shall be disposed of to the nearest licensed landfill or refuse transfer station. Burning of refuse on construction sites is prohibited.	All areas / throughout construction period	Contractor	TMEIA		Y		n/a
12.6	8.1	All waste containers shall be in a secure area on hardstanding;	All areas / throughout construction period	Contractor	TMEIA		Y		n/a
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including waste reduction, reuse and recycling.	All areas / throughout construction period	Contractor	TMEIA		Y		n/a
12.6	8.1	Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the Contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	Site Offices/ throughout construction period	Contractor	TMEIA		Y		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
12.6	Section 8	EM&A of waste handling, storage, transportation, disposal procedures and documentation through the site audit programme shall be undertaken.	All areas / throughout construction period	Contractor	EM&A Manual		Y		n/a
<b>CULTURAL HERITAGE</b>									
11.8	Section 9	EM&A in the form of audit of the mitigation measures	All areas / throughout construction period	Highways Department	EIAO-TM		Y		n/a
<b>Notes:</b> Legend: D=Design, C=Construction, O=Operation Note: Funding Agent for all mitigation measures will be the Highways Department of the Hong Kong SAR Government									

Appendix D

## Summary of Action and Limit Levels

**Table D1** *Action and Limit Levels for 1-hour and 24-hour TSP*

<b>Parameters</b>	<b>Action</b>	<b>Limit</b>
24 Hour TSP Level in $\mu\text{g}/\text{m}^3$	ASR9A/ASR8A = 178 ASR9C/ASR8 = 178	260
1 Hour TSP Level in $\mu\text{g}/\text{m}^3$	ASR9A/ASR8A = 394 ASR9C/ASR8 = 393	500

**Table D2** *Action and Limit Levels for Construction Noise (0700-1900 hrs of normal weekdays)*

<b>Time Period</b>	<b>Action</b>	<b>Limit</b>
0700-1900 hrs on normal weekdays	When one documented complaint is received	75* dB(A)

**Table D3** *Action and Limit Levels for Water Quality*

<b>Parameter</b>	<b>Action Level#</b>	<b>Limit Level#</b>
DO in mg/L <sup>(a)</sup>	<u>Surface and Middle</u> <b>5.0 mg/L</b>	<u>Surface and Middle</u> <b>4.2 mg/L</b>
	<u>Bottom</u> <b>4.7 mg/L</b>	<u>Bottom</u> <b>3.6 mg/L</b>
Turbidity in NTU (Depth-averaged <sup>(b), (c)</sup> )	120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e., <b>27.5 NTU</b>	130% of upstream control station at the same tide of the same day and 99%-ile of baseline data, i.e., <b>47.0 NTU</b>
SS in mg/L (Depth-averaged <sup>(b), (c)</sup> )	120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e., <b>23.5 mg/L</b>	130% of upstream control station at the same tide of the same day and 10mg/L for WSD Seawater Intakes at Tuen Mun and 99%-ile of baseline data, i.e., <b>34.4 mg/L</b>

**Notes:**

# Baseline data: data from HKZMB Baseline Water Quality Monitoring between 6 and 31 October 2011.

- (a) For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- (b) "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths
- (c) For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
- (d) All figures given in the table are used for reference only, and EPD may amend the figures whenever it is considered as necessary

Parameter	Action Level#	Limit Level#
(e) The 1%-ile of baseline data for surface and middle DO is 4.2 mg/L, whilst for bottom DO is 3.6 mg/L.		

**Table D4** *Action and Limit Levels for Impact Dolphin Monitoring*

	North Lantau Social Cluster	
	NEL	NWL
Action Level	STG < 70% of baseline & ANI < 70% of baseline	STG < 70% of baseline & ANI < 70% of baseline
Limit Level	[STG < 40% of baseline & ANI < 40% of baseline] and STG < 40% of baseline & ANI < 40% of baseline	
<b>Notes:</b>		
1.	STG means quarterly encounter rate of number of dolphin sightings, which is <b>6.00 in NEL</b> and <b>9.85 in NWL</b> during the baseline monitoring period	
2.	ANI means quarterly encounter rate of total number of dolphins, which is <b>22.19 in NEL</b> and <b>44.66 in NWL</b> during the baseline monitoring period	
3.	For North Lantau Social Cluster, AL will be trigger if NEL or NWL fall below the criteria; LL will be triggered if both NEL and NWL fall below the criteria.	

**Table D5** *Derived Value of Action Level (AL) and Limit Level (LL)*

	North Lantau Social Cluster	
	NEL	NWL
Action Level	STG < 4.2 & ANI < 15.5	STG < 6.9 & ANI < 31.3
Limit Level	[STG < 2.4 & ANI < 8.9] and [STG < 3.9 & ANI < 17.9]	



Appendix E

## Calibration Certificates of Monitoring Equipments

High-Volume TSP Sampler  
5-Point Calibration Record

Location : ASR 8(A)  
 Calibrated by : P.F. Yeung  
 Date : 05/01/2014

Sampler

Model : TE-5170  
 Serial Number : S/N 3956

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 12 Mar 2013  
 Slope (m) : 2.05818  
 Intercept (b) : 0.01929  
 Correlation Coefficient(r) : 0.99991

Standard Condition

Pstd (hpa) : 1013  
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1018  
 Ta(K) : 290

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	12.4	3.578	1.729	63	64.02
2	13 holes	10.0	3.214	1.552	57	57.92
3	10 holes	7.4	2.764	1.334	51	51.83
4	7 holes	5.0	2.272	1.095	44	44.71
5	5 holes	3.0	1.760	0.846	37	37.60

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

Sampler Calibration Relationship (Linear Regression)

Slope(m): 29.648 Intercept(b): 12.345 Correlation Coefficient(r): 0.9991

Checked by: Magnum Fan

Date: 08/01/2014

High-Volume TSP Sampler  
5-Point Calibration Record

Location : ASR8  
 Calibrated by : P.F. Yeung  
 Date : 05/01/2014

Sampler

Model : TE-5170  
 Serial Number : S/N 3958

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 12 Mar 2013  
 Slope (m) : 2.05818  
 Intercept (b) : 0.01929  
 Correlation Coefficient(r) : 0.99991

Standard Condition

Pstd (hpa) : 1013  
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1018  
 Ta(K) : 290

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	11.6	3.461	1.672	53	53.86
2	13 holes	9.2	3.082	1.488	48	48.78
3	10 holes	6.8	2.650	1.278	42	42.68
4	7 holes	4.4	2.132	1.026	35	35.57
5	5 holes	2.8	1.700	0.817	28	28.45

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

Sampler Calibration Relationship (Linear Regression)

Slope(m): 29.478 Intercept(b): 4.834 Correlation Coefficient(r): 0.9993

Checked by: Magnum Fan

Date: 08/01/2014

# Certificate of Calibration

## 校正證書

Certificate No. : C133573  
證書編號

**ITEM TESTED / 送檢項目** ( Job No. / 序引編號 : IC13-1422 )

Description / 儀器名稱 : Sound Level Meter  
Manufacturer / 製造商 : Rion  
Model No. / 型號 : NL-31  
Serial No. / 編號 : 00410224  
Supplied By / 委託者 : Envirotech Services Co.  
Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,  
Hong Kong

**TEST CONDITIONS / 測試條件**

Temperature / 溫度 : (23 ± 2)°C  
Line Voltage / 電壓 : ---  
Relative Humidity / 相對濕度 : (55 ± 20)%

**TEST SPECIFICATIONS / 測試規範**

Calibration check

**DATE OF TEST / 測試日期** : 14 June 2013

**TEST RESULTS / 測試結果**

The results apply to the particular unit-under-test only.  
All results are within manufacturer's specification.  
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested By :   
測試 : K C Lee

Certified By :   
核證 : K K Wong

Date of Issue : 17 June 2013  
簽發日期

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

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

# Certificate of Calibration

## 校正證書

Certificate No. : C133573  
證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- Self-calibration was performed before the test.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C130019
CL281	Multifunction Acoustic Calibrator	DC110233

- Test procedure : MA101N.

- Results :

### 6.1 Sound Pressure Level

#### 6.1.1 Reference Sound Pressure Level

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 120	L <sub>A</sub>	A	Fast	94.00	1	93.6	± 1.1

#### 6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
30 - 120	L <sub>A</sub>	A	Fast	94.00	1	93.6 (Ref.)
				104.00		103.6
				114.00		113.6

IEC 61672 Class 1 Spec. : ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

### 6.2 Time Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 120	L <sub>A</sub>	A	Fast	94.00	1	93.6	Ref.
			Slow			93.5	± 0.3

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# Certificate of Calibration 校正證書

Certificate No. : C133573  
證書編號

## 6.3 Frequency Weighting

### 6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 120	L <sub>A</sub>	A	Fast	94.00	63 Hz	67.3	-26.2 ± 1.5
					125 Hz	77.3	-16.1 ± 1.5
					250 Hz	84.9	-8.6 ± 1.4
					500 Hz	90.3	-3.2 ± 1.4
					1 kHz	93.6	Ref.
					2 kHz	94.9	+1.2 ± 1.6
					4 kHz	94.8	+1.0 ± 1.6
					8 kHz	92.6	-1.1 (+2.1 ; -3.1)
					12.5 kHz	89.7	-4.3 (+3.0 ; -6.0)

### 6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 120	L <sub>C</sub>	C	Fast	94.00	63 Hz	92.7	-0.8 ± 1.5
					125 Hz	93.4	-0.2 ± 1.5
					250 Hz	93.6	0.0 ± 1.4
					500 Hz	93.7	0.0 ± 1.4
					1 kHz	93.7	Ref.
					2 kHz	93.5	-0.2 ± 1.6
					4 kHz	93.0	-0.8 ± 1.6
					8 kHz	90.7	-3.0 (+2.1 ; -3.1)
					12.5 kHz	87.9	-6.2 (+3.0 ; -6.0)

Remarks : - UUT Microphone Model No. : UC-53A & S/N : 307154

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value : 94 dB : 63 Hz - 125 Hz : ± 0.35 dB  
 250 Hz - 500 Hz : ± 0.30 dB  
 1 kHz : ± 0.20 dB  
 2 kHz - 4 kHz : ± 0.35 dB  
 8 kHz : ± 0.45 dB  
 12.5 kHz : ± 0.70 dB  
 104 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)  
 114 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)

- The uncertainties are for a confidence probability of not less than 95 %.

#### Note :

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

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

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TISCH ENVIRONMENTAL, INC.  
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AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Mar 12, 2013 Rootsmeter S/N 0438320 Ta (K) - 293  
 Operator Tisch Orifice I.D. - 2454 Pa (mm) - 748.03

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.4750	3.2	2.00
2	NA	NA	1.00	1.0290	6.4	4.00
3	NA	NA	1.00	0.9170	8.0	5.00
4	NA	NA	1.00	0.8740	8.9	5.50
5	NA	NA	1.00	0.7220	12.8	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9967	0.6757	1.4150	0.9957	0.6750	0.8851
0.9925	0.9645	2.0010	0.9915	0.9635	1.2517
0.9902	1.0799	2.2372	0.9892	1.0788	1.3995
0.9891	1.1317	2.3464	0.9881	1.1305	1.4678
0.9839	1.3627	2.8299	0.9828	1.3613	1.7702
Qstd slope (m) = 2.05818			Qa slope (m) = 1.28880		
intercept (b) = 0.01929			intercept (b) = 0.01207		
coefficient (r) = 0.99991			coefficient (r) = 0.99991		
y axis = SQRT[H2O(Pa/760)(298/Ta)]			y axis = SQRT[H2O(Ta/Pa)]		

CALCULATIONS

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

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

For subsequent flow rate calculations:

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



## Performance Check of Turbidity Meter

Equipment Ref. No. : ET/0505/010                      Manufacturer : HACH  
Model No. : 2100Q                                      Serial No. : 11110 C 014260  
Date of Calibration : 07/01/2014                      Due Date : 06/04/2014

Theoretical Value of Turbidity Standard (NTU)	Measured Value (NTU)	Difference % *
20	19.2	-4.08
100	104	3.92
800	793	-0.88

(\* ) Difference = (Measured Value – Theoretical Value) / Theoretical Value

Acceptance Criteria

Difference : -5 % to 5 %

The turbidity meter complies \* / ~~does not comply~~ \* with the specified requirements and is deemed acceptable \* / ~~unacceptable~~ \* for use. Measurements are traceable to national standards.

Prepared by : 

Checked by : 





### Internal Calibration Report of Dissolved Oxygen Meter

Equipment Ref. No. : <u>ET/EW/008/005</u>	Manufacturer : <u>YSI</u>
Model No. : <u>Pro 2030</u>	Serial No. : <u>12A 100353</u>
Date of Calibration : <u>29/01/2014</u>	Calibration Due Date : <u>28/04/2014</u>

#### Temperature Verification

Ref. No. of Reference Thermometer : ET/0521/008

Ref. No. of Water Bath : ---

	Temperature (°C)			
		Measured	Corrected	
Reference Thermometer reading	Measured	20.2	Corrected	19.8
DO Meter reading	Measured	19.7	Difference	0.1

#### Standardization of sodium thiosulphate ( $\text{Na}_2\text{S}_2\text{O}_3$ ) solution

Reagent No. of $\text{Na}_2\text{S}_2\text{O}_3$ titrant	CPE/012/4.5/001/8	Reagent No. of 0.025N $\text{K}_2\text{Cr}_2\text{O}_7$	CPE/012/4.4/001/24
		Trial 1	Trial 2
Initial Vol. of $\text{Na}_2\text{S}_2\text{O}_3$ (ml)		0.00	10.50
Final Vol. of $\text{Na}_2\text{S}_2\text{O}_3$ (ml)		10.50	20.95
Vol. of $\text{Na}_2\text{S}_2\text{O}_3$ used (ml)		10.50	10.45
Normality of $\text{Na}_2\text{S}_2\text{O}_3$ solution (N)		0.02381	0.02392
Average Normality (N) of $\text{Na}_2\text{S}_2\text{O}_3$ solution (N)		0.02387	
Acceptance criteria, Deviation		Less than $\pm 0.001\text{N}$	

Calculation: Normality of  $\text{Na}_2\text{S}_2\text{O}_3$ ,  $N = 0.25 / \text{ml } \text{Na}_2\text{S}_2\text{O}_3$  used

#### Linearity Checking

##### Determination of dissolved oxygen content by Winkler Titration \*

Purging Time (min)	2		5		10	
	1	2	1	2	1	2
Trial						
Initial Vol. of $\text{Na}_2\text{S}_2\text{O}_3$ (ml)	0.00	11.90	23.50	0.00	8.20	13.20
Final Vol. of $\text{Na}_2\text{S}_2\text{O}_3$ (ml)	11.90	23.50	31.90	8.20	13.20	17.90
Vol. (V) of $\text{Na}_2\text{S}_2\text{O}_3$ used (ml)	11.90	11.60	8.40	8.20	5.00	4.70
Dissolved Oxygen (DO), mg/L	7.63	7.43	5.38	5.25	3.20	3.01
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation:  $\text{DO (mg/L)} = V \times N \times 8000/298$

Purging time, min	DO meter reading, mg/L			Winkler Titration result *, mg/L			Difference (%) of DO Content
	1	2	Average	1	2	Average	
2	7.65	7.41	7.53	7.63	7.43	7.53	0.00
5	5.38	5.21	5.30	5.38	5.25	5.32	0.38
10	3.22	3.09	3.16	3.20	3.01	3.11	1.59
Linear regression coefficient				0.9998			



## Internal Calibration Report of Dissolved Oxygen Meter

### Zero Point Checking

DO meter reading, mg/L	0.00
------------------------	------

### Salinity Checking

Reagent No. of NaCl (10ppt)	CPE/012/4.7/002/15	Reagent No. of NaCl (30ppt)	CPE/012/4.8/002/15
-----------------------------	--------------------	-----------------------------	--------------------

### Determination of dissolved oxygen content by Winkler Titration \*\*

Salinity (ppt)	10		30	
	1	2	1	2
Trial				
Initial Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (ml)	0.00	12.30	24.40	35.80
Final Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (ml)	12.30	24.40	35.80	47.00
Vol. (V) of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> used (ml)	12.30	12.10	11.40	11.20
Dissolved Oxygen (DO), mg/L	7.88	7.75	7.31	7.18
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation:  $DO (mg/L) = V \times N \times 8000/298$

Salinity (ppt)	DO meter reading, mg/L			Winkler Titration result**, mg/L			Difference (%) of DO Content
	1	2	Average	1	2	Average	
10	7.88	7.65	7.77	7.88	7.75	7.82	0.64
30	7.23	7.14	7.19	7.31	7.18	7.25	0.83

### Acceptance Criteria

- (1) Differenc between temperature readings from temperature sensor of DO probe and reference thermometer : < 0.5 °C
- (2) Linear regression coefficient : >0.99
- (3) Zero checking: 0.0mg/L
- (4) Difference (%) of DO content from the meter reading and by winkler titration : within ± 5%

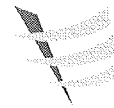
The equipment complies # / does not comply # with the specified requirements and is deemed acceptable # / unacceptable # for use.

# Delete as appropriate

Calibrated by

:

Approved by :



## Performance Check of Salinity Meter

Equipment Ref. No. : ET/EW/008/005                      Manufacturer : YSI  
Model No. : Pro 2030                                      Serial No. : 12A 100353  
Date of Calibration : 29/01/2014                      Due Date : 28/04/2014

Ref. No. of Salinity Standard used (30ppt)

S/001/5


Salinity Standard (ppt)	Measured Salinity (ppt)	Difference %
30.0	30.9	3.00

Acceptance Criteria

Difference : <10 %

The salinity meter complies \* / ~~does not comply~~ \* with the specified requirements and is deemed acceptable \* / ~~unacceptable~~ \* for use. Measurements are traceable to national standards.

Checked by : 

Approved by : 



### Internal Calibration & Performance Check of pH Meter

Equipment Ref. No. : ET/EW/007/003      Manufacturer : HANNA  
 Model No. : HI 8314      Serial No. : 674469  
 Date of Calibration : 10/02/2014      Calibration Due Date : 09/03/2014  
*10/01/2014*      *10/01/2014*

#### Liquid Junction Error

Primary Standard Solution Used : Phosphate      Ref No. of Primary Solution: 003/5.2/001/17  
 Temperature of Solution : 20.0       $\Delta\text{pH}_{1/2} = +0.08$   
 pH value of diluted buffer : 6.80      pH (S) = 6.881  
 $\Delta\text{pH} = \text{pH(S)} - \text{pH of diluted buffer} = 0.081$       (Observed Deviation)  
 Liquid Junction Error ( $\Delta\text{pH}_j$ ) =  $\Delta\text{pH} - \Delta\text{pH}_{1/2} = 0.001$

#### Shift on Stirring

pH of buffer solution (with stirring),  $\text{pH}_s = 6.87$   
 Shift on stirring,  $\Delta\text{pH}_s = \text{pH}_s - \text{pH(S)} - \Delta\text{pH}_j = -0.012$

#### Noise

Noise,  $\Delta\text{pH}_n =$  difference between max and min reading : 0.00

#### Verification of ATC

Ref. No. of reference thermometer used: ET/0521/008  
 Temperature record from the reference thermometer ( $T_R$ ): 20.0 °C  
 Temperature record from the ATC ( $T_{ATC}$ ): 19.9 °C  
 Temperature Difference,  $|T_R - T_{ATC}|$  : 0.1 °C

#### Acceptance Criteria

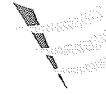
Performance Characteristic	Acceptable Range
Liquid Junction Error $\Delta\text{pH}_j$	$\leq 0.05$
Shift on Stirring $\Delta\text{pH}_s$	$\leq 0.02$
Noise $\Delta\text{pH}_n$	$\leq 0.02$
Verification of ATC      Temperature Difference	$\leq 0.5^\circ\text{C}$

The pH meter complies \* / does not comply \* with the specified requirements and is deemed acceptable \* / unacceptable \* for use. Measurements are traceable to national standards.

\* Delete as appropriate

Calibrated by :

Checked by :



### Internal Calibration & Performance Check of pH Meter

Equipment Ref. No. : ET/EW/007/003      Manufacturer : HANNA  
 Model No. : HI 8314      Serial No. : 674469  
 Date of Calibration : 10/02/2014      Calibration Due Date : 09/03/2014

#### Liquid Junction Error

Primary Standard Solution Used : Phosphate      Ref No. of Primary Solution: 003/5.2/001/17  
 Temperature of Solution : 20.0       $\Delta\text{pH}_{1/2} = \underline{+0.08}$   
 pH value of diluted buffer : 6.80      pH (S) = 6.881  
 $\Delta\text{pH} = \text{pH(S)} - \text{pH of diluted buffer} = \underline{0.081}$       (Observed Deviation)  
 Liquid Junction Error ( $\Delta\text{pH}_j$ ) =  $\Delta\text{pH} - \Delta\text{pH}_{1/2} = \underline{0.001}$

#### Shift on Stirring

pH of buffer solution (with stirring),  $\text{pH}_s = \underline{6.87}$   
 Shift on stirring,  $\Delta\text{pH}_s = \text{pH}_s - \text{pH(S)} - \Delta\text{pH}_j = \underline{-0.012}$

#### Noise

Noise,  $\Delta\text{pH}_n = \text{difference between max and min reading} : \underline{0.00}$

#### Verification of ATC

Ref. No. of reference thermometer used: ET/0521/008  
 Temperature record from the reference thermometer ( $T_R$ ): 20.0 °C  
 Temperature record from the ATC ( $T_{ATC}$ ): 19.9 °C  
 Temperature Difference,  $|T_R - T_{ATC}|$  : 0.1 °C

#### Acceptance Criteria

Performance Characteristic	Acceptable Range
Liquid Junction Error $\Delta\text{pH}_j$	$\leq 0.05$
Shift on Stirring $\Delta\text{pH}_s$	$\leq 0.02$
Noise $\Delta\text{pH}_n$	$\leq 0.02$
Verification of ATC      Temperature Difference	$\leq 0.5^\circ\text{C}$

The pH meter complies \* / does not comply \* with the specified requirements and is deemed acceptable \* / unacceptable \* for use. Measurements are traceable to national standards.

\* Delete as appropriate

Calibrated by :

Checked by :

Appendix F

## EM&A Monitoring Schedules

**HY/2012/07 - Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section  
Impact Marine Water Quality Monitoring (WQM) Schedule (Feb 14)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						01-Feb
					No marine works	No marine works
02-Feb	03-Feb	04-Feb	05-Feb	06-Feb	07-Feb	08-Feb
No marine works	No marine works	WQM Mid-Flood 10:30 (08:45 - 12:15) Mid-Ebb 16:35 (14:50 - 18:20)		WQM Mid-Flood 11:39 (09:54 - 13:24) Mid-Ebb 18:29 (16:44 - 20:14)		WQM Mid-Flood 13:11 (11:26 - 14:56) Mid-Ebb 21:15 (19:30 - 22:30)
09-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb
		WQM Mid-Ebb 11:25 (09:40 - 13:10) Mid-Flood 16:27 (14:42 - 18:12)		WQM Mid-Ebb 12:25 (10:40 - 14:10) Mid-Flood 17:50 (16:05 - 19:35)		WQM Mid-Ebb 13:20 (11:35 - 15:05) Mid-Flood 19:04 (17:19 - 20:49)
16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb
		WQM Mid-Flood 9:02 (07:17 - 10:47) Mid-Ebb 14:55 (13:10 - 16:40)		WQM Mid-Flood 9:59 (08:14 - 11:44) Mid-Ebb 16:12 (14:27 - 17:57)		WQM Mid-Flood 11:12 (09:27 - 12:57) Mid-Ebb 18:07 (16:22 - 19:52)
23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	
		WQM Mid-Ebb 10:06 (08:21 - 11:51) Mid-Flood 14:57 (13:12 - 16:42)		WQM Mid-Ebb 11:53 (10:08 - 13:38) Mid-Flood 17:08 (15:23 - 18:53)		

**HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section  
Tentative Impact Noise Monitoring Schedule (1 Feb - 28 Feb 2014)**

Noise Monitoring at the rooftop of Pak Mong Village Watch Tower

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						public holiday 01-Feb
public holiday 02-Feb	public holiday 03-Feb	04-Feb	05-Feb	06-Feb	07-Feb	08-Feb
			Noise Monitoring			Noise Monitoring
09-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb
			Noise Monitoring			
16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb
		Noise Monitoring				
23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	
	Noise Monitoring				Noise Monitoring	

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

**HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section  
Tentative Impact Air Quality Monitoring Schedule (1 Feb to 28 Feb 2014)**

Air Quality Monitoring at WA4 and rooftop of Pak Mong Village Watch Tower

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						public holiday 01-Feb
public holiday 02-Feb	public holiday 03-Feb	04-Feb	05-Feb	06-Feb	07-Feb	08-Feb
			1-hour TSP - 3 times 24-hour TSP - 1 time  Impact AQM			1-hour TSP - 3 times 24-hour TSP - 1 time  Impact AQM
09-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb
			1-hour TSP - 3 times 24-hour TSP - 1 time  Impact AQM			
16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb
		1-hour TSP - 3 times 24-hour TSP - 1 time  Impact AQM				
23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	
	1-hour TSP - 3 times 24-hour TSP - 1 time  Impact AQM				1-hour TSP - 3 times 24-hour TSP - 1 time  Impact AQM	

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



**HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section  
Tentative Impact Dolphin Monitoring Survey Schedule (1 Feb to 28 Feb 2014)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						Public Holiday 01-Feb
02-Feb	Public Holiday	03-Feb	04-Feb	05-Feb	06-Feb	07-Feb
				Impact Dolphin Monitoring		
09-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb
			Impact Dolphin Monitoring		Impact Dolphin Monitoring	
16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb
					Impact Dolphin Monitoring	
23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	

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

**HY/2012/07 - Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section  
Impact Marine Water Quality Monitoring (WQM) Schedule (Mar 14)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						01-Mar
						<b>WQM</b> Mid-Ebb 13:17 (11:29 - 14:59) Mid-Flood 18:54 (17:09 - 20:39)
02-Mar	03-Mar	04-Mar	05-Mar	06-Mar	07-Mar	08-Mar
		<b>WQM</b> Mid-Flood 9:00 (07:15 - 10:45) Mid-Ebb 15:09 (13:24 - 16:54)		<b>WQM</b> Mid-Flood 9:56 (08:11 - 11:41) Mid-Ebb 16:35 (14:50 - 18:20)		<b>WQM</b> Mid-Flood 11:00 (09:15 - 12:45) Mid-Ebb 18:27 (16:42 - 20:12)
09-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar
		<b>WQM</b> Mid-Ebb 10:13 (09:25 - 11:05) Mid-Flood 14:53 (13:08 - 16:38)		<b>WQM</b> Mid-Ebb 11:36 (09:51 - 13:21) Mid-Flood 17:03 (15:18 - 18:48)		<b>WQM</b> Mid-Ebb 12:27 (10:42 - 14:12) Mid-Flood 18:21 (16:36 - 20:06)
16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar
		<b>WQM</b> Mid-Flood 7:55 (06:10 - 09:40) Mid-Ebb 13:57 (12:12 - 15:42)		<b>WQM</b> Mid-Flood 8:50 (07:05 - 10:35) Mid-Ebb 15:08 (13:23 - 16:53)		<b>WQM</b> Mid-Flood 9:55 (08:10 - 11:40) Mid-Ebb 16:40 (14:55 - 18:25)
23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar
		<b>WQM</b> Mid-Ebb 8:39 (07:20 - 10:00) Mid-Flood 13:16 (11:31 - 15:01)		<b>WQM</b> Mid-Ebb 10:52 (09:07 - 12:37) Mid-Flood 16:05 (14:20 - 17:50)		<b>WQM</b> Mid-Ebb 12:16 (10:31 - 14:01) Mid-Flood 18:00 (16:15 - 19:45)
30-Mar	31-Mar					

**HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section  
Tentative Impact Noise Monitoring Schedule (1 Mar to 31 Mar 2014)**

Noise Monitoring at the rooftop of Pak Mong Village Watch Tower

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						01-Mar
02-Mar	03-Mar	04-Mar	05-Mar	06-Mar	07-Mar	08-Mar
				Noise Monitoring		
09-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar
			Noise Monitoring			
16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar
		Noise Monitoring				
23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar
	Noise Monitoring				Noise Monitoring	
30-Mar	31-Mar					

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

**HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section  
Tentative Impact Air Quality Monitoring Schedule (1 Mar to 31 Mar 2014)**

Air Quality Monitoring at WA4 and rooftop of Pak Mong Village Watch Tower

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						01-Mar
02-Mar	03-Mar	04-Mar	05-Mar	06-Mar	07-Mar	08-Mar
				1-hour TSP - 3 times 24-hour TSP - 1 time  <i>Impact AQM</i>		
09-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar
			1-hour TSP - 3 times 24-hour TSP - 1 time  <i>Impact AQM</i>			
16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar
		1-hour TSP - 3 times 24-hour TSP - 1 time  <i>Impact AQM</i>				
23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar
	1-hour TSP - 3 times 24-hour TSP - 1 time  <i>Impact AQM</i>				1-hour TSP - 3 times 24-hour TSP - 1 time  <i>Impact AQM</i>	
30-Mar	31-Mar					

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

**HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section**  
**Tentative Impact Monitoring on Underwater Noise and Dolphin Acoustic Behaviour in Relation to Marine Bored Piling Activities (1 Mar to 31 Mar 2014)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						01-Mar
02-Mar	03-Mar	04-Mar	05-Mar	06-Mar	07-Mar	08-Mar
	Acoustic Monitoring Survey (Day 1)	Acoustic Monitoring Survey (Day 2)	Acoustic Monitoring Survey (Day 3)		Acoustic Monitoring Survey (Day 4)	
09-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar
	Acoustic Monitoring Survey (Day 5)	Acoustic Monitoring Survey (Day 6)	Acoustic Monitoring Survey (Day 7)	Acoustic Monitoring Survey (Day 8)	Acoustic Monitoring Survey (Day 9)	
16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar
	Acoustic Monitoring Survey (Day 10)	Acoustic Monitoring Survey (Day 11)	Acoustic Monitoring Survey (Day 12)	Acoustic Monitoring Survey (Day 13)	Acoustic Monitoring Survey (Day 14)	
23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar
	Acoustic Monitoring Survey (Day 15)	Acoustic Monitoring Survey (Day 16)	Acoustic Monitoring Survey (Day 17)	Acoustic Monitoring Survey (Day 18)	Acoustic Monitoring Survey (Day 19)	
30-Mar	31-Mar					
	Acoustic Monitoring Survey (Day 20)					

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

**HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section**  
**Tentative Impact Monitoring on Shored-based Theodolite Tracking to Investigate Dolphin Behaviour and Movement in Relation to**  
**Marine Bored Piling Activities (1 Mar to 31 Mar 2014)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						01-Mar
02-Mar	03-Mar	04-Mar	05-Mar	06-Mar	07-Mar	08-Mar
	Theodolite Tracking Survey (Day 1)	Theodolite Tracking Survey (Day 2)	Theodolite Tracking Survey (Day 3)		Theodolite Tracking Survey (Day 4)	
09-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar
	Theodolite Tracking Survey (Day 5)	Theodolite Tracking Survey (Day 6)	Theodolite Tracking Survey (Day 7)	Theodolite Tracking Survey (Day 8)	Theodolite Tracking Survey (Day 9)	
16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar
	Theodolite Tracking Survey (Day 10)	Theodolite Tracking Survey (Day 11)	Theodolite Tracking Survey (Day 12)	Theodolite Tracking Survey (Day 13)	Theodolite Tracking Survey (Day 14)	
23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar
	Theodolite Tracking Survey (Day 15)	Theodolite Tracking Survey (Day 16)	Theodolite Tracking Survey (Day 17)	Theodolite Tracking Survey (Day 18)	Theodolite Tracking Survey (Day 19)	
30-Mar	31-Mar					
	Theodolite Tracking Survey (Day 20)					

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

Appendix G

Impact Air Quality  
Monitoring Results and  
Graphical Presentation

**1-hour TSP Monitoring Results at Air Quality Monitoring Station ASR8A**

Project	Works	Date (yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	2014-02-05	ASR8A	8:05	1-hr TSP	57	394	500
TMCLKL	HY/2012/07	2014-02-05	ASR8A	9:07	1-hr TSP	79		
TMCLKL	HY/2012/07	2014-02-05	ASR8A	10:09	1-hr TSP	47		
TMCLKL	HY/2012/07	2014-02-08	ASR8A	8:00	1-hr TSP	76		
TMCLKL	HY/2012/07	2014-02-08	ASR8A	9:02	1-hr TSP	50		
TMCLKL	HY/2012/07	2014-02-08	ASR8A	10:04	1-hr TSP	64		
TMCLKL	HY/2012/07	2014-02-12	ASR8A	8:00	1-hr TSP	156		
TMCLKL	HY/2012/07	2014-02-12	ASR8A	9:02	1-hr TSP	97		
TMCLKL	HY/2012/07	2014-02-12	ASR8A	10:04	1-hr TSP	81		
TMCLKL	HY/2012/07	2014-02-18	ASR8A	8:30	1-hr TSP	129		
TMCLKL	HY/2012/07	2014-02-18	ASR8A	9:32	1-hr TSP	306		
TMCLKL	HY/2012/07	2014-02-18	ASR8A	10:34	1-hr TSP	249		
TMCLKL	HY/2012/07	2014-02-24	ASR8A	8:25	1-hr TSP	107		
TMCLKL	HY/2012/07	2014-02-24	ASR8A	9:27	1-hr TSP	69		
TMCLKL	HY/2012/07	2014-02-24	ASR8A	10:29	1-hr TSP	74		
TMCLKL	HY/2012/07	2014-02-28	ASR8A	8:25	1-hr TSP	81		
TMCLKL	HY/2012/07	2014-02-28	ASR8A	9:27	1-hr TSP	95		
TMCLKL	HY/2012/07	2014-02-28	ASR8A	10:29	1-hr TSP	65		

Average 105

Min. 47

Max. 306

**1-hour TSP Monitoring Results at Air Quality Monitoring Station ASR8**

Project	Works	Date (yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)		
TMCLKL	HY/2012/07	2014-02-05	ASR8	8:16	1-hr TSP	45	393	500		
TMCLKL	HY/2012/07	2014-02-05	ASR8	9:18	1-hr TSP	48				
TMCLKL	HY/2012/07	2014-02-05	ASR8	10:20	1-hr TSP	45				
TMCLKL	HY/2012/07	2014-02-08	ASR8	8:12	1-hr TSP	42				
TMCLKL	HY/2012/07	2014-02-08	ASR8	9:14	1-hr TSP	58				
TMCLKL	HY/2012/07	2014-02-08	ASR8	10:16	1-hr TSP	69				
TMCLKL	HY/2012/07	2014-02-12	ASR8	8:10	1-hr TSP	119				
TMCLKL	HY/2012/07	2014-02-12	ASR8	9:12	1-hr TSP	102				
TMCLKL	HY/2012/07	2014-02-12	ASR8	10:14	1-hr TSP	94				
TMCLKL	HY/2012/07	2014-02-18	ASR8	8:40	1-hr TSP	134				
TMCLKL	HY/2012/07	2014-02-18	ASR8	9:42	1-hr TSP	259				
TMCLKL	HY/2012/07	2014-02-18	ASR8	10:44	1-hr TSP	361				
TMCLKL	HY/2012/07	2014-02-24	ASR8	8:37	1-hr TSP	131				
TMCLKL	HY/2012/07	2014-02-24	ASR8	9:39	1-hr TSP	94				
TMCLKL	HY/2012/07	2014-02-24	ASR8	10:41	1-hr TSP	74				
TMCLKL	HY/2012/07	2014-02-28	ASR8	8:41	1-hr TSP	130				
TMCLKL	HY/2012/07	2014-02-28	ASR8	9:43	1-hr TSP	85				
TMCLKL	HY/2012/07	2014-02-28	ASR8	10:45	1-hr TSP	85				
					Average	110				
					Min.	42				
					Max.	361				



**24-hour TSP Monitoring Results at Air Quality Monitoring Station ASR8A**

Project	Works	Date (yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	2014-02-05	ASR8A	11:11	24-hr TSP	29	178	260
TMCLKL	HY/2012/07	2014-02-08	ASR8A	11:06	24-hr TSP	42		
TMCLKL	HY/2012/07	2014-02-12	ASR8A	11:06	24-hr TSP	52		
TMCLKL	HY/2012/07	2014-02-18	ASR8A	11:36	24-hr TSP	74		
TMCLKL	HY/2012/07	2014-02-24	ASR8A	11:31	24-hr TSP	61		
TMCLKL	HY/2012/07	2014-02-28	ASR8A	11:31	24-hr TSP	52		

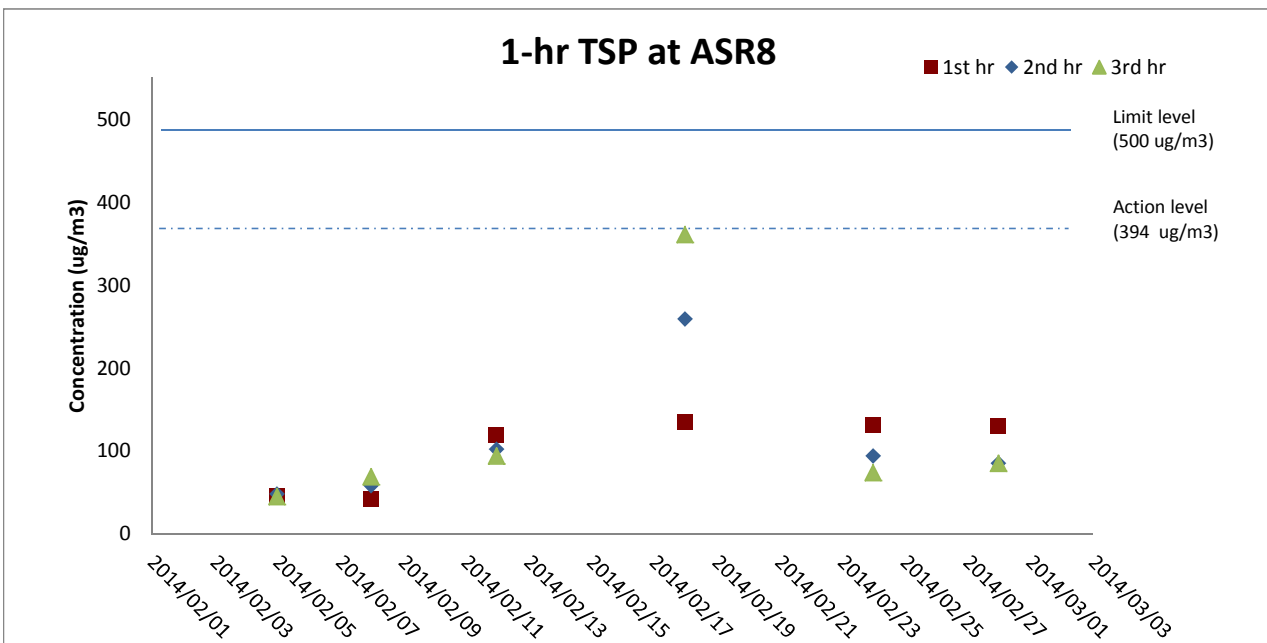
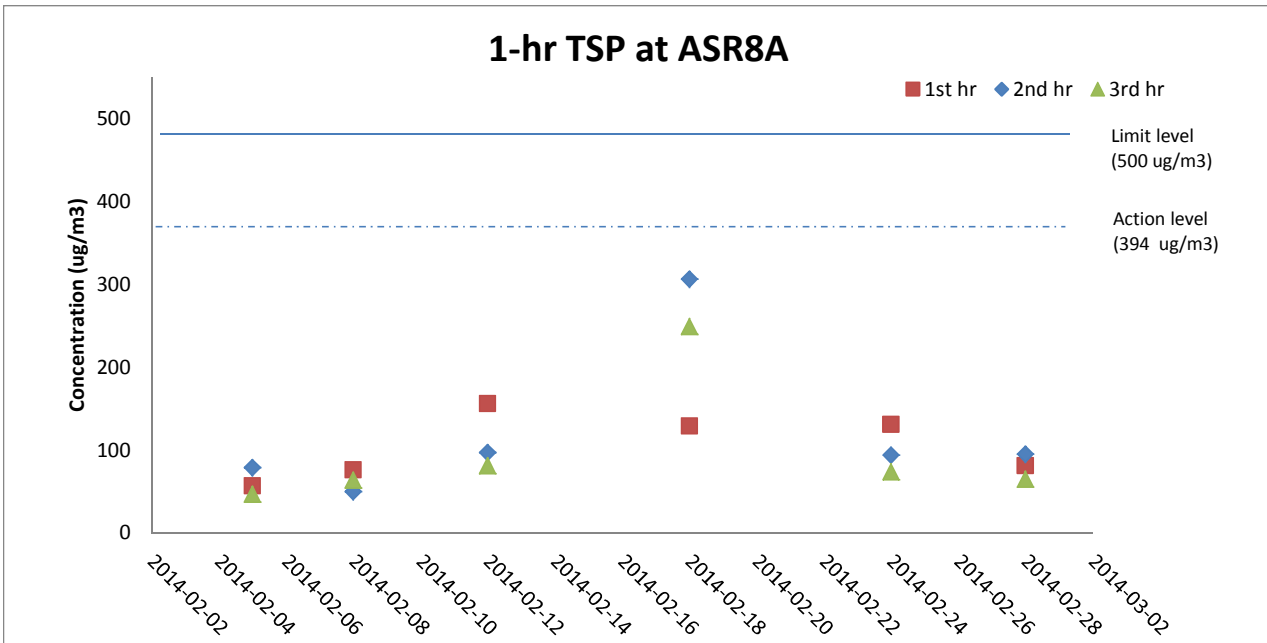
Average 52  
 Min. 29  
 Max. 74

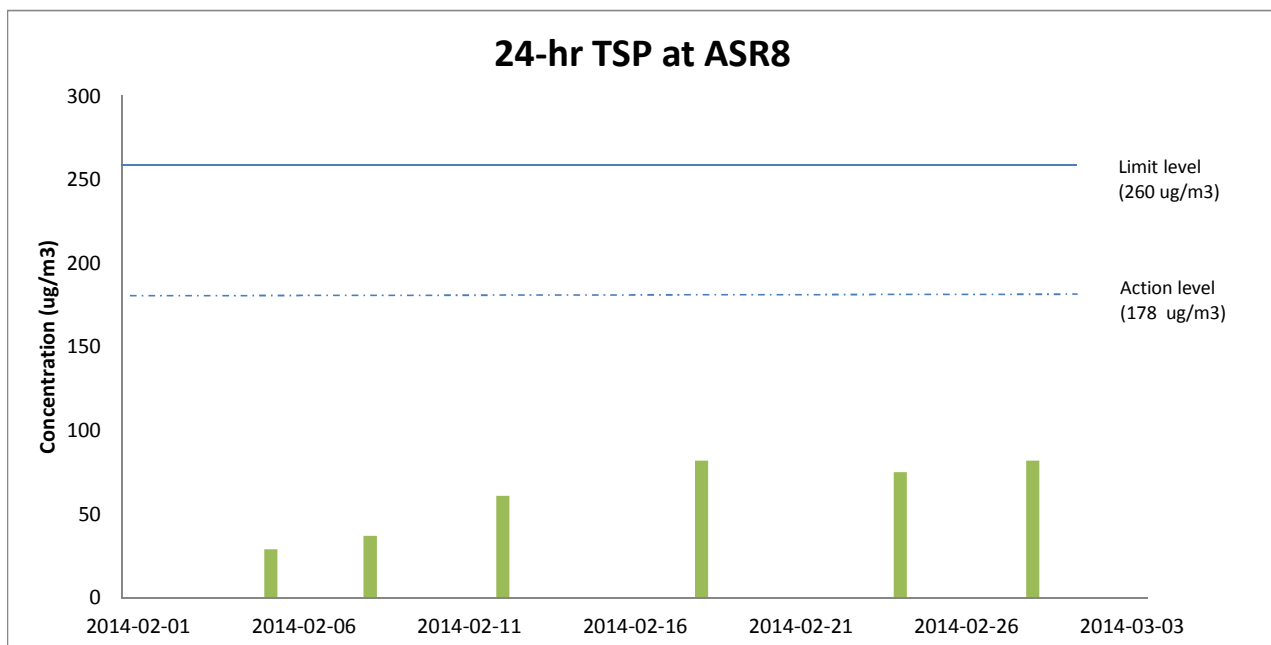
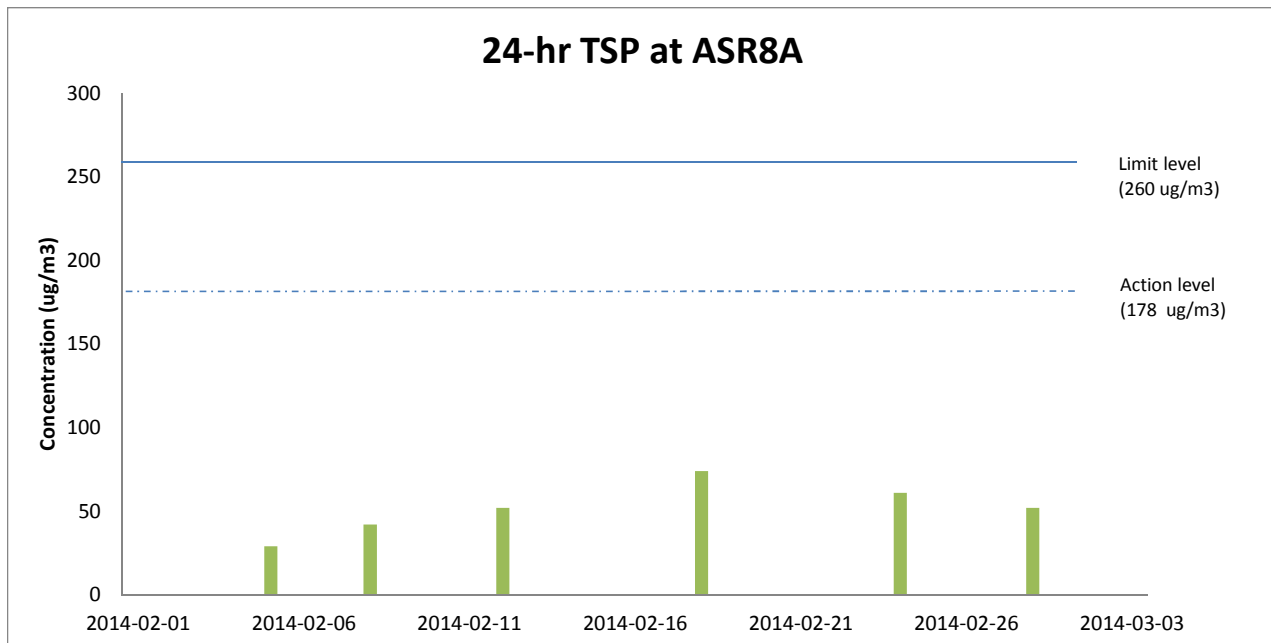
**24-hour TSP Monitoring Results at Air Quality Monitoring Station ASR8**

Project	Works	Date (yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	2014-02-05	ASR8	11:22	24-hr TSP	29	178	260
TMCLKL	HY/2012/07	2014-02-08	ASR8	11:18	24-hr TSP	37		
TMCLKL	HY/2012/07	2014-02-12	ASR8	11:16	24-hr TSP	61		
TMCLKL	HY/2012/07	2014-02-18	ASR8	11:46	24-hr TSP	82		
TMCLKL	HY/2012/07	2014-02-24	ASR8	11:43	24-hr TSP	75		
TMCLKL	HY/2012/07	2014-02-28	ASR8	11:47	24-hr TSP	82		

Average 61  
 Min. 29  
 Max. 82

**Action Level Exceedance**  
**Limit Level Exceedance**





Appendix H

## Meteorological Data for the Reporting Month

Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/5	10:34:40	0.31	18.05
2014/2/5	10:39:40	1.35	83.45
2014/2/5	10:44:40	0.09	43.68
2014/2/5	10:49:40	3.20	226.63
2014/2/5	10:54:40	0.03	29.86
2014/2/5	10:59:40	2.08	189.30
2014/2/5	11:04:40	0.57	318.55
2014/2/5	11:09:40	2.49	237.77
2014/2/5	11:14:40	1.42	137.83
2014/2/5	11:19:40	0.02	160.33
2014/2/5	11:24:40	0.63	123.34
2014/2/5	11:29:40	0.76	108.19
2014/2/5	11:34:40	0.55	184.62
2014/2/5	11:39:40	0.98	75.65
2014/2/5	11:44:40	1.35	130.47
2014/2/5	11:49:40	1.19	7.47
2014/2/5	11:54:40	0.08	23.40
2014/2/5	11:59:40	0.35	16.16
2014/2/5	12:04:40	3.58	154.43
2014/2/5	12:09:40	1.15	137.49
2014/2/5	12:14:40	0.21	87.69
2014/2/5	12:19:40	0.02	35.54
2014/2/5	12:24:40	0.43	58.83
2014/2/5	12:29:40	0.81	40.22
2014/2/5	12:34:40	0.96	140.06
2014/2/5	12:39:40	0.06	86.13
2014/2/5	12:44:40	0.02	99.94
2014/2/5	12:49:40	0.02	280.45
2014/2/5	12:54:40	0.17	98.61
2014/2/5	12:59:40	1.13	191.75
2014/2/5	13:04:40	0.15	76.43
2014/2/5	13:09:40	1.45	114.99
2014/2/5	13:14:40	0.93	62.84
2014/2/5	13:19:40	0.55	55.26
2014/2/5	13:24:40	0.02	95.26
2014/2/5	13:29:40	0.66	126.80
2014/2/5	13:34:40	0.63	131.36
2014/2/5	13:39:40	0.02	28.52
2014/2/5	13:44:40	0.02	85.79
2014/2/5	13:49:40	0.72	91.14
2014/2/5	13:54:40	2.23	171.25
2014/2/5	13:59:40	1.50	134.15
2014/2/5	14:04:40	0.05	356.99

Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/5	14:09:40	0.12	21.84
2014/2/5	14:14:40	0.02	74.76
2014/2/5	14:19:40	0.02	202.01
2014/2/5	14:24:40	0.32	187.63
2014/2/5	14:29:40	1.13	92.70
2014/2/5	14:34:40	0.02	155.54
2014/2/5	14:39:40	0.08	187.08
2014/2/5	14:44:40	0.87	147.97
2014/2/5	14:49:40	0.80	200.22
2014/2/5	14:54:40	0.12	158.33
2014/2/5	14:59:40	0.54	232.20
2014/2/5	15:04:40	0.02	147.63
2014/2/5	15:09:40	1.09	141.06
2014/2/5	15:14:40	5.02	65.85
2014/2/5	15:19:40	1.02	86.80
2014/2/5	15:24:40	2.23	114.76
2014/2/5	15:29:40	0.02	132.03
2014/2/5	15:34:40	0.66	163.79
2014/2/5	15:39:40	0.67	161.56
2014/2/5	15:44:40	2.10	182.84
2014/2/5	15:49:40	1.68	180.17
2014/2/5	15:54:40	0.09	21.95
2014/2/5	15:59:40	0.02	44.68
2014/2/5	16:04:40	0.02	136.82
2014/2/5	16:09:40	0.02	189.53
2014/2/5	16:14:40	0.50	188.41
2014/2/5	16:19:40	0.02	194.76
2014/2/5	16:24:40	0.02	253.93
2014/2/5	16:29:40	1.67	174.93
2014/2/5	16:34:40	0.32	151.75
2014/2/5	16:39:40	2.00	132.37
2014/2/5	16:44:40	0.24	62.62
2014/2/5	16:49:40	0.02	195.54
2014/2/5	16:54:40	1.50	187.52
2014/2/5	16:59:40	0.31	95.71
2014/2/5	17:04:40	1.01	232.31
2014/2/5	17:09:40	2.26	190.08
2014/2/5	17:14:40	1.59	143.84
2014/2/5	17:19:40	0.43	239.44
2014/2/5	17:24:40	0.05	224.85
2014/2/5	17:29:40	0.18	128.36
2014/2/5	17:34:40	2.49	134.37
2014/2/5	17:39:40	0.12	5.46

Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/5	17:44:40	1.18	148.86
2014/2/5	17:49:40	0.24	151.75
2014/2/5	17:54:40	0.67	185.74
2014/2/5	17:59:40	0.32	257.38
2014/2/5	18:04:40	0.06	201.34
2014/2/5	18:09:40	0.06	150.08
2014/2/5	18:14:40	0.11	180.61
2014/2/5	18:19:40	0.02	341.73
2014/2/5	18:24:40	0.14	233.98
2014/2/5	18:29:40	2.23	195.65
2014/2/5	18:34:40	0.02	153.31
2014/2/5	18:39:40	0.69	243.12
2014/2/5	18:44:40	2.66	89.14
2014/2/5	18:49:40	0.18	211.70
2014/2/5	18:54:40	0.89	121.23
2014/2/5	18:59:40	3.24	150.19
2014/2/5	19:04:40	0.76	134.04
2014/2/5	19:09:40	1.68	116.10
2014/2/5	19:14:40	1.36	184.07
2014/2/5	19:19:40	0.15	16.94
2014/2/5	19:24:40	0.02	186.74
2014/2/5	19:29:40	0.86	14.82
2014/2/5	19:34:40	0.43	156.99
2014/2/5	19:39:40	0.69	270.75
2014/2/5	19:44:40	2.34	81.67
2014/2/5	19:49:40	0.15	25.74
2014/2/5	19:54:40	2.00	113.65
2014/2/5	19:59:40	0.55	83.57
2014/2/5	20:04:40	0.02	139.50
2014/2/5	20:09:40	0.02	286.02
2014/2/5	20:14:40	0.03	219.05
2014/2/5	20:19:40	0.06	53.37
2014/2/5	20:24:40	0.03	76.10
2014/2/5	20:29:40	0.15	154.54
2014/2/5	20:34:40	0.03	93.04
2014/2/5	20:39:40	0.15	55.04
2014/2/5	20:44:40	0.80	276.32
2014/2/5	20:49:40	0.02	40.89
2014/2/5	20:54:40	0.02	219.50
2014/2/5	20:59:40	0.09	147.63
2014/2/5	21:04:40	0.67	67.41
2014/2/5	21:09:40	0.03	161.00
2014/2/5	21:14:40	0.57	39.33

Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/5	21:19:40	1.12	62.28
2014/2/5	21:24:40	0.02	19.39
2014/2/5	21:29:40	0.02	34.32
2014/2/5	21:34:40	0.87	158.77
2014/2/5	21:39:40	0.46	182.17
2014/2/5	21:44:40	0.20	171.25
2014/2/5	21:49:40	0.05	62.06
2014/2/5	21:54:40	0.14	355.99
2014/2/5	21:59:40	0.02	210.81
2014/2/5	22:04:40	0.47	156.43
2014/2/5	22:09:40	0.38	171.36
2014/2/5	22:14:40	1.76	115.21
2014/2/5	22:19:40	0.14	48.13
2014/2/5	22:24:40	0.14	142.40
2014/2/5	22:29:40	0.02	128.25
2014/2/5	22:34:40	1.35	154.21
2014/2/5	22:39:40	0.03	81.89
2014/2/5	22:44:40	0.87	63.84
2014/2/5	22:49:40	0.03	233.09
2014/2/5	22:54:40	0.34	189.19
2014/2/5	22:59:40	0.02	33.76
2014/2/5	23:04:40	0.73	120.67
2014/2/5	23:09:40	0.02	88.25
2014/2/5	23:14:40	0.14	54.48
2014/2/5	23:19:40	2.45	55.71
2014/2/5	23:24:40	0.95	78.11
2014/2/5	23:29:40	0.20	151.31
2014/2/5	23:34:40	1.45	111.09
2014/2/5	23:39:40	0.14	341.06
2014/2/5	23:44:40	0.02	210.81
2014/2/5	23:49:40	0.02	51.25
2014/2/5	23:54:40	0.02	144.40
2014/2/5	23:59:40	0.02	229.30
2014/2/8	00:04:40	0.02	49.92
2014/2/8	00:09:40	0.02	256.38
2014/2/8	00:14:40	0.02	291.70
2014/2/8	00:19:40	0.17	337.27
2014/2/8	00:24:40	0.02	224.07
2014/2/8	00:29:40	0.32	28.97
2014/2/8	00:34:40	0.24	288.47
2014/2/8	00:39:40	0.08	215.82
2014/2/8	00:44:40	0.02	274.21
2014/2/8	00:49:40	0.02	0.22



Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/8	00:54:40	0.08	314.76
2014/2/8	00:59:40	0.02	1.56
2014/2/8	01:04:40	0.28	284.23
2014/2/8	01:09:40	0.02	260.84
2014/2/8	01:14:40	0.08	311.87
2014/2/8	01:19:40	0.02	300.95
2014/2/8	01:24:40	0.12	245.01
2014/2/8	01:29:40	0.02	220.61
2014/2/8	01:34:40	0.15	161.23
2014/2/8	01:39:40	0.02	237.55
2014/2/8	01:44:40	0.02	316.66
2014/2/8	01:49:40	0.61	1.34
2014/2/8	01:54:40	0.73	24.85
2014/2/8	01:59:40	0.02	39.00
2014/2/8	02:04:40	0.02	234.09
2014/2/8	02:09:40	0.02	286.80
2014/2/8	02:14:40	0.02	190.31
2014/2/8	02:19:40	0.02	339.94
2014/2/8	02:24:40	0.09	40.56
2014/2/8	02:29:40	0.02	46.13
2014/2/8	02:34:40	0.09	323.23
2014/2/8	02:39:40	0.02	344.07
2014/2/8	02:44:40	0.02	6.57
2014/2/8	02:49:40	0.02	192.98
2014/2/8	02:54:40	1.67	216.27
2014/2/8	02:59:40	0.24	172.03
2014/2/8	03:04:40	0.03	260.84
2014/2/8	03:09:40	0.26	284.01
2014/2/8	03:14:40	0.02	266.85
2014/2/8	03:19:40	0.02	296.60
2014/2/8	03:24:40	0.02	355.21
2014/2/8	03:29:40	0.02	303.29
2014/2/8	03:34:40	0.02	320.22
2014/2/8	03:39:40	0.02	338.72
2014/2/8	03:44:40	0.70	230.31
2014/2/8	03:49:40	0.52	184.96
2014/2/8	03:54:40	0.24	235.65
2014/2/8	03:59:40	0.02	301.73
2014/2/8	04:04:40	0.02	249.03
2014/2/8	04:09:40	0.02	1.11
2014/2/8	04:14:40	0.02	318.77
2014/2/8	04:19:40	0.02	242.67
2014/2/8	04:24:40	0.02	270.75

Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/8	04:29:40	0.05	274.65
2014/2/8	04:34:40	0.02	227.30
2014/2/8	04:39:40	0.02	204.23
2014/2/8	04:44:40	0.02	247.58
2014/2/8	04:49:40	0.02	275.10
2014/2/8	04:54:40	0.02	305.63
2014/2/8	04:59:40	0.03	263.29
2014/2/8	05:04:40	0.02	298.50
2014/2/8	05:09:40	0.02	249.36
2014/2/8	05:14:40	0.02	285.68
2014/2/8	05:19:40	0.02	284.90
2014/2/8	05:24:40	0.09	352.20
2014/2/8	05:29:40	0.02	3.90
2014/2/8	05:34:40	0.02	353.76
2014/2/8	05:39:40	0.02	237.55
2014/2/8	05:44:40	0.02	245.68
2014/2/8	05:49:40	0.06	291.59
2014/2/8	05:54:40	0.02	246.13
2014/2/8	05:59:40	0.02	237.55
2014/2/8	06:04:40	0.02	243.90
2014/2/8	06:09:40	0.03	289.81
2014/2/8	06:14:40	0.02	240.00
2014/2/8	06:19:40	0.02	261.06
2014/2/8	06:24:40	0.02	235.88
2014/2/8	06:29:40	0.02	201.34
2014/2/8	06:34:40	0.02	311.20
2014/2/8	06:39:40	0.02	75.43
2014/2/8	06:44:40	0.02	8.36
2014/2/8	06:49:40	0.09	240.00
2014/2/8	06:54:40	0.02	348.08
2014/2/8	06:59:40	0.02	248.13
2014/2/8	07:04:40	0.17	358.44
2014/2/8	07:09:40	0.02	13.04
2014/2/8	07:14:40	0.32	0.00
2014/2/8	07:19:40	0.02	43.34
2014/2/8	07:24:40	0.02	84.12
2014/2/8	07:29:40	0.02	345.52
2014/2/8	07:34:40	0.02	282.45
2014/2/8	07:39:40	0.02	274.32
2014/2/8	07:44:40	0.02	249.69
2014/2/8	07:49:40	0.02	70.08
2014/2/8	07:54:40	0.03	14.15
2014/2/8	07:59:40	0.02	58.38

Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/8	08:04:40	0.02	110.75
2014/2/8	08:09:40	0.02	110.75
2014/2/8	08:14:40	0.02	110.75
2014/2/8	08:19:40	0.02	160.78
2014/2/8	08:24:40	0.02	328.58
2014/2/8	08:29:40	0.02	270.08
2014/2/8	08:34:40	0.75	355.77
2014/2/8	08:39:40	0.75	17.83
2014/2/8	08:44:40	0.26	-46.69
2014/2/8	08:49:40	0.02	246.13
2014/2/8	08:54:40	0.02	255.38
2014/2/8	08:59:40	0.02	242.90
2014/2/8	09:04:40	0.02	278.11
2014/2/8	09:09:40	0.02	95.15
2014/2/8	09:14:40	0.02	95.15
2014/2/8	09:19:40	0.02	224.29
2014/2/8	09:24:40	0.02	352.98
2014/2/8	09:29:40	0.05	90.92
2014/2/8	09:34:40	0.20	33.43
2014/2/8	09:39:40	0.02	350.86
2014/2/8	09:44:40	0.02	350.86
2014/2/8	09:49:40	0.02	278.33
2014/2/8	09:54:40	0.02	278.33
2014/2/8	09:59:40	0.02	278.33
2014/2/8	10:04:40	0.02	322.34
2014/2/8	10:09:40	0.02	23.51
2014/2/8	10:14:40	0.02	27.63
2014/2/8	10:19:40	0.02	33.98
2014/2/8	10:24:40	0.02	74.09
2014/2/8	10:29:40	0.02	20.39
2014/2/8	10:34:40	0.02	23.73
2014/2/8	10:39:40	0.02	23.84
2014/2/8	10:44:40	0.02	23.84
2014/2/8	10:49:40	0.02	3.68
2014/2/8	10:54:40	0.02	-46.80
2014/2/8	10:59:40	0.02	354.65
2014/2/8	11:04:40	0.09	59.50
2014/2/8	11:09:40	0.02	60.06
2014/2/8	11:14:40	0.02	60.06
2014/2/8	11:19:40	0.02	63.51
2014/2/8	11:24:40	0.02	346.52
2014/2/8	11:29:40	0.02	56.27
2014/2/8	11:34:40	0.02	56.16

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<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/8	11:39:40	0.02	56.27
2014/2/8	11:44:40	0.02	232.76
2014/2/8	11:49:40	0.02	243.12
2014/2/8	11:54:40	0.02	270.53
2014/2/8	11:59:40	0.02	358.22
2014/2/8	12:04:40	0.02	358.22
2014/2/8	12:09:40	0.02	358.11
2014/2/8	12:14:40	0.02	59.16
2014/2/8	12:19:40	0.02	34.32
2014/2/8	12:24:40	0.02	0.22
2014/2/8	12:29:40	0.14	54.71
2014/2/8	12:34:40	0.03	13.59
2014/2/8	12:39:40	0.02	55.93
2014/2/8	12:44:40	0.02	26.96
2014/2/8	12:49:40	0.02	26.96
2014/2/8	12:54:40	0.02	-46.57
2014/2/8	12:59:40	0.02	357.66
2014/2/8	13:04:40	0.02	357.77
2014/2/8	13:09:40	0.02	357.66
2014/2/8	13:14:40	0.02	342.17
2014/2/8	13:19:40	0.02	-46.57
2014/2/8	13:24:40	0.02	-46.46
2014/2/8	13:29:40	0.02	66.63
2014/2/8	13:34:40	0.02	66.63
2014/2/8	13:39:40	0.02	66.63
2014/2/8	13:44:40	0.02	66.63
2014/2/8	13:49:40	0.02	66.63
2014/2/8	13:54:40	0.02	66.85
2014/2/8	13:59:40	0.02	66.74
2014/2/8	14:04:40	0.02	66.74
2014/2/8	14:09:40	0.02	66.74
2014/2/8	14:14:40	0.02	66.74
2014/2/8	14:19:40	0.02	5.91
2014/2/8	14:24:40	0.02	354.21
2014/2/8	14:29:40	0.02	223.40
2014/2/8	14:34:40	0.02	351.98
2014/2/8	14:39:40	0.02	335.71
2014/2/8	14:44:40	0.02	332.03
2014/2/8	14:49:40	0.02	220.95
2014/2/8	14:54:40	0.02	210.03
2014/2/8	14:59:40	0.02	0.22
2014/2/8	15:04:40	0.02	14.15
2014/2/8	15:09:40	0.02	10.47

Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/8	15:14:40	0.02	9.47
2014/2/8	15:19:40	0.02	285.79
2014/2/8	15:24:40	0.02	338.50
2014/2/8	15:29:40	0.02	350.86
2014/2/8	15:34:40	0.02	311.53
2014/2/8	15:39:40	0.02	230.08
2014/2/8	15:44:40	0.02	245.68
2014/2/8	15:49:40	0.02	232.31
2014/2/8	15:54:40	0.02	265.85
2014/2/8	15:59:40	0.02	248.13
2014/2/8	16:04:40	0.02	265.85
2014/2/8	16:09:40	0.02	276.10
2014/2/8	16:14:40	0.02	279.00
2014/2/8	16:19:40	0.02	326.69
2014/2/8	16:24:40	0.02	317.66
2014/2/8	16:29:40	0.02	303.51
2014/2/8	16:34:40	0.02	303.51
2014/2/8	16:39:40	0.02	303.51
2014/2/8	16:44:40	0.02	303.62
2014/2/8	16:49:40	0.02	303.51
2014/2/8	16:54:40	0.02	303.51
2014/2/8	16:59:40	0.02	303.51
2014/2/8	17:04:40	0.02	85.57
2014/2/8	17:09:40	0.02	62.06
2014/2/8	17:14:40	0.02	62.06
2014/2/8	17:19:40	0.02	62.06
2014/2/8	17:24:40	0.02	62.06
2014/2/8	17:29:40	0.02	62.06
2014/2/8	17:34:40	0.02	62.06
2014/2/8	17:39:40	0.02	62.06
2014/2/8	17:44:40	0.02	62.06
2014/2/8	17:49:40	0.02	62.06
2014/2/8	17:54:40	0.02	62.06
2014/2/8	17:59:40	0.02	62.06
2014/2/8	18:04:40	0.02	62.06
2014/2/8	18:09:40	0.02	62.40
2014/2/8	18:14:40	0.02	62.40
2014/2/8	18:19:40	0.02	62.40
2014/2/8	18:24:40	0.02	62.51
2014/2/8	18:29:40	0.02	62.51
2014/2/8	18:34:40	0.05	94.93
2014/2/8	18:39:40	0.02	67.08
2014/2/8	18:44:40	0.02	66.96

Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/8	18:49:40	0.02	154.43
2014/2/8	18:54:40	0.02	6.02
2014/2/8	18:59:40	0.02	57.94
2014/2/8	19:04:40	0.20	64.07
2014/2/8	19:09:40	0.02	89.47
2014/2/8	19:14:40	0.02	84.12
2014/2/8	19:19:40	0.03	76.88
2014/2/8	19:24:40	0.02	79.55
2014/2/8	19:29:40	0.02	84.57
2014/2/8	19:34:40	0.02	136.71
2014/2/8	19:39:40	1.41	55.26
2014/2/8	19:44:40	0.60	199.89
2014/2/8	19:49:40	0.02	99.28
2014/2/8	19:54:40	0.37	259.50
2014/2/8	19:59:40	0.09	77.66
2014/2/8	20:04:40	0.20	164.79
2014/2/8	20:09:40	0.02	52.37
2014/2/8	20:14:40	1.21	172.14
2014/2/8	20:19:40	0.38	121.00
2014/2/8	20:24:40	0.95	142.62
2014/2/8	20:29:40	0.02	147.63
2014/2/8	20:34:40	0.37	103.84
2014/2/8	20:39:40	0.29	216.49
2014/2/8	20:44:40	0.02	126.57
2014/2/8	20:49:40	0.02	94.48
2014/2/8	20:54:40	0.67	86.24
2014/2/8	20:59:40	1.06	164.23
2014/2/8	21:04:40	1.51	145.07
2014/2/8	21:09:40	0.02	91.25
2014/2/8	21:14:40	0.05	161.89
2014/2/8	21:19:40	0.09	124.79
2014/2/8	21:24:40	0.11	60.06
2014/2/8	21:29:40	0.02	120.00
2014/2/8	21:34:40	0.23	102.28
2014/2/8	21:39:40	0.03	118.44
2014/2/8	21:44:40	0.70	77.99
2014/2/8	21:49:40	0.58	155.54
2014/2/8	21:54:40	0.03	72.87
2014/2/8	21:59:40	0.02	147.52
2014/2/8	22:04:40	0.02	97.83
2014/2/8	22:09:40	0.34	24.29
2014/2/8	22:14:40	0.14	92.48
2014/2/8	22:19:40	1.10	142.40

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/2/8	22:24:40	1.38	34.65
2014/2/8	22:29:40	2.00	130.47
2014/2/8	22:34:40	1.12	76.21
2014/2/8	22:39:40	2.17	145.07
2014/2/8	22:44:40	2.29	136.71
2014/2/8	22:49:40	1.48	93.93
2014/2/8	22:54:40	1.25	175.71
2014/2/8	22:59:40	4.73	69.75
2014/2/8	23:04:40	0.64	90.03
2014/2/8	23:09:40	0.38	342.51
2014/2/8	23:14:40	0.17	274.09
2014/2/8	23:19:40	0.47	166.35
2014/2/8	23:24:40	0.26	87.02
2014/2/8	23:29:40	0.70	158.22
2014/2/8	23:34:40	0.05	167.35
2014/2/8	23:39:40	1.36	62.95
2014/2/8	23:44:40	3.20	61.50
2014/2/8	23:49:40	2.54	84.01
2014/2/8	23:54:40	2.40	64.85
2014/2/8	23:59:40	0.21	77.77
2014/2/12	00:04:40	0.02	267.86
2014/2/12	00:09:40	0.02	267.86
2014/2/12	00:14:40	0.02	254.26
2014/2/12	00:19:40	0.02	275.99
2014/2/12	00:24:40	0.02	301.95
2014/2/12	00:29:40	0.02	299.94
2014/2/12	00:34:40	0.02	259.28
2014/2/12	00:39:40	0.02	251.81
2014/2/12	00:44:40	0.02	251.70
2014/2/12	00:49:40	0.03	40.00
2014/2/12	00:54:40	0.29	18.72
2014/2/12	00:59:40	0.02	325.68
2014/2/12	01:04:40	0.02	299.72
2014/2/12	01:09:40	0.08	336.82
2014/2/12	01:14:40	0.34	356.99
2014/2/12	01:19:40	0.02	238.89
2014/2/12	01:24:40	0.02	228.64
2014/2/12	01:29:40	0.26	33.87
2014/2/12	01:34:40	0.02	344.18
2014/2/12	01:39:40	0.02	264.18
2014/2/12	01:44:40	0.02	261.73
2014/2/12	01:49:40	0.02	272.20
2014/2/12	01:54:40	0.02	-45.35

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<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/12	01:59:40	0.02	-45.35
2014/2/12	02:04:40	0.02	16.60
2014/2/12	02:09:40	0.02	275.32
2014/2/12	02:14:40	0.83	72.31
2014/2/12	02:19:40	0.02	14.15
2014/2/12	02:24:40	0.02	237.88
2014/2/12	02:29:40	0.69	359.00
2014/2/12	02:34:40	0.02	288.80
2014/2/12	02:39:40	0.02	292.26
2014/2/12	02:44:40	0.02	236.88
2014/2/12	02:49:40	0.02	-45.35
2014/2/12	02:54:40	0.02	27.86
2014/2/12	02:59:40	0.02	-45.35
2014/2/12	03:04:40	0.02	337.05
2014/2/12	03:09:40	0.02	291.70
2014/2/12	03:14:40	1.02	68.86
2014/2/12	03:19:40	0.02	226.41
2014/2/12	03:24:40	0.02	67.30
2014/2/12	03:29:40	0.02	316.43
2014/2/12	03:34:40	0.02	356.32
2014/2/12	03:39:40	0.02	88.36
2014/2/12	03:44:40	0.02	269.30
2014/2/12	03:49:40	0.02	236.21
2014/2/12	03:54:40	0.96	357.55
2014/2/12	03:59:40	0.14	-45.24
2014/2/12	04:04:40	0.31	32.20
2014/2/12	04:09:40	0.02	355.10
2014/2/12	04:14:40	0.02	334.15
2014/2/12	04:19:40	0.02	2.23
2014/2/12	04:24:40	1.54	74.09
2014/2/12	04:29:40	0.02	30.64
2014/2/12	04:34:40	0.67	30.64
2014/2/12	04:39:40	0.29	76.21
2014/2/12	04:44:40	0.02	4.35
2014/2/12	04:49:40	0.02	17.16
2014/2/12	04:54:40	0.02	27.41
2014/2/12	04:59:40	0.08	3.57
2014/2/12	05:04:40	0.02	121.00
2014/2/12	05:09:40	0.02	152.20
2014/2/12	05:14:40	0.02	122.45
2014/2/12	05:19:40	0.02	119.33
2014/2/12	05:24:40	0.08	38.22
2014/2/12	05:29:40	0.02	63.29



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<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/12	05:34:40	0.02	134.60
2014/2/12	05:39:40	0.02	173.04
2014/2/12	05:44:40	0.02	250.92
2014/2/12	05:49:40	0.02	250.92
2014/2/12	05:54:40	0.02	266.74
2014/2/12	05:59:40	0.02	314.21
2014/2/12	06:04:40	0.02	346.18
2014/2/12	06:09:40	0.02	57.16
2014/2/12	06:14:40	0.63	335.15
2014/2/12	06:19:40	0.28	351.09
2014/2/12	06:24:40	0.02	328.69
2014/2/12	06:29:40	0.12	229.53
2014/2/12	06:34:40	0.02	5.68
2014/2/12	06:39:40	0.02	308.97
2014/2/12	06:44:40	0.02	281.56
2014/2/12	06:49:40	0.02	283.12
2014/2/12	06:54:40	0.02	46.35
2014/2/12	06:59:40	0.02	109.42
2014/2/12	07:04:40	0.02	91.14
2014/2/12	07:09:40	0.08	53.59
2014/2/12	07:14:40	0.06	70.97
2014/2/12	07:19:40	0.02	135.38
2014/2/12	07:24:40	0.02	220.72
2014/2/12	07:29:40	0.02	220.72
2014/2/12	07:34:40	0.02	247.80
2014/2/12	07:39:40	0.02	-45.13
2014/2/12	07:44:40	0.02	150.97
2014/2/12	07:49:40	0.02	69.97
2014/2/12	07:54:40	0.38	27.52
2014/2/12	07:59:40	1.38	10.14
2014/2/12	08:04:40	0.02	199.22
2014/2/12	08:09:40	0.02	224.29
2014/2/12	08:14:40	0.02	226.07
2014/2/12	08:19:40	0.02	170.03
2014/2/12	08:24:40	0.02	201.56
2014/2/12	08:29:40	0.02	201.67
2014/2/12	08:34:40	0.02	249.81
2014/2/12	08:39:40	0.02	249.69
2014/2/12	08:44:40	0.02	249.69
2014/2/12	08:49:40	0.02	249.69
2014/2/12	08:54:40	0.02	47.35
2014/2/12	08:59:40	0.02	46.35
2014/2/12	09:04:40	0.02	46.35

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<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/12	09:09:40	0.02	46.35
2014/2/12	09:14:40	0.02	150.42
2014/2/12	09:19:40	0.02	150.42
2014/2/12	09:24:40	0.02	150.42
2014/2/12	09:29:40	0.02	150.42
2014/2/12	09:34:40	0.02	150.42
2014/2/12	09:39:40	0.02	150.19
2014/2/12	09:44:40	0.02	150.19
2014/2/12	09:49:40	0.02	150.08
2014/2/12	09:54:40	0.02	126.69
2014/2/12	09:59:40	0.02	126.24
2014/2/12	10:04:40	0.02	231.31
2014/2/12	10:09:40	0.02	231.42
2014/2/12	10:14:40	0.15	287.80
2014/2/12	10:19:40	0.02	265.74
2014/2/12	10:24:40	0.02	265.74
2014/2/12	10:29:40	0.02	265.74
2014/2/12	10:34:40	0.02	332.14
2014/2/12	10:39:40	0.02	81.45
2014/2/12	10:44:40	0.02	97.16
2014/2/12	10:49:40	0.02	106.63
2014/2/12	10:54:40	0.02	308.52
2014/2/12	10:59:40	0.02	46.80
2014/2/12	11:04:40	0.02	114.87
2014/2/12	11:09:40	0.02	147.19
2014/2/12	11:14:40	0.02	226.63
2014/2/12	11:19:40	0.02	226.63
2014/2/12	11:24:40	0.02	191.98
2014/2/12	11:29:40	0.02	242.79
2014/2/12	11:34:40	0.02	243.23
2014/2/12	11:39:40	0.02	83.01
2014/2/12	11:44:40	0.02	83.01
2014/2/12	11:49:40	0.02	83.01
2014/2/12	11:54:40	0.02	83.01
2014/2/12	11:59:40	0.02	83.01
2014/2/12	12:04:40	0.02	83.01
2014/2/12	12:09:40	0.02	83.01
2014/2/12	12:14:40	0.02	83.01
2014/2/12	12:19:40	0.02	248.91
2014/2/12	12:24:40	0.02	72.20
2014/2/12	12:29:40	0.02	70.42
2014/2/12	12:34:40	0.02	70.31
2014/2/12	12:39:40	0.02	50.36

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<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/12	12:44:40	0.02	50.36
2014/2/12	12:49:40	0.02	257.49
2014/2/12	12:54:40	0.02	330.25
2014/2/12	12:59:40	0.02	348.19
2014/2/12	13:04:40	0.02	214.82
2014/2/12	13:09:40	0.02	290.70
2014/2/12	13:14:40	0.12	54.71
2014/2/12	13:19:40	0.02	53.37
2014/2/12	13:24:40	0.02	321.00
2014/2/12	13:29:40	0.02	276.77
2014/2/12	13:34:40	0.02	288.58
2014/2/12	13:39:40	0.02	360.45
2014/2/12	13:44:40	0.20	360.22
2014/2/12	13:49:40	0.02	235.21
2014/2/12	13:54:40	0.02	73.31
2014/2/12	13:59:40	0.06	198.77
2014/2/12	14:04:40	0.03	4.57
2014/2/12	14:09:40	0.02	41.00
2014/2/12	14:14:40	0.81	2.01
2014/2/12	14:19:40	0.02	310.64
2014/2/12	14:24:40	0.02	337.72
2014/2/12	14:29:40	0.02	249.25
2014/2/12	14:34:40	0.02	334.48
2014/2/12	14:39:40	0.02	230.64
2014/2/12	14:44:40	0.02	294.15
2014/2/12	14:49:40	0.02	354.87
2014/2/12	14:54:40	0.02	-45.46
2014/2/12	14:59:40	0.02	294.48
2014/2/12	15:04:40	0.02	294.60
2014/2/12	15:09:40	0.02	263.62
2014/2/12	15:14:40	0.02	325.57
2014/2/12	15:19:40	0.03	2.23
2014/2/12	15:24:40	0.02	264.85
2014/2/12	15:29:40	0.02	328.91
2014/2/12	15:34:40	0.58	232.42
2014/2/12	15:39:40	0.02	241.45
2014/2/12	15:44:40	0.02	3.57
2014/2/12	15:49:40	0.02	283.12
2014/2/12	15:54:40	0.02	289.92
2014/2/12	15:59:40	0.02	280.22
2014/2/12	16:04:40	0.02	355.32
2014/2/12	16:09:40	0.02	339.39
2014/2/12	16:14:40	0.02	268.19

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Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/2/12	16:19:40	0.02	256.71
2014/2/12	16:24:40	0.02	252.81
2014/2/12	16:29:40	0.02	183.62
2014/2/12	16:34:40	0.02	23.18
2014/2/12	16:39:40	0.02	356.66
2014/2/12	16:44:40	0.06	289.14
2014/2/12	16:49:40	0.02	262.84
2014/2/12	16:54:40	0.06	358.44
2014/2/12	16:59:40	0.12	290.25
2014/2/12	17:04:40	0.02	336.49
2014/2/12	17:09:40	0.02	6.46
2014/2/12	17:14:40	0.02	341.50
2014/2/12	17:19:40	0.09	4.01
2014/2/12	17:24:40	0.26	36.99
2014/2/12	17:29:40	0.02	76.55
2014/2/12	17:34:40	0.02	40.33
2014/2/12	17:39:40	0.02	237.66
2014/2/12	17:44:40	0.02	261.50
2014/2/12	17:49:40	0.02	355.77
2014/2/12	17:54:40	0.02	201.89
2014/2/12	17:59:40	0.18	288.13
2014/2/12	18:04:40	0.02	303.62
2014/2/12	18:09:40	0.76	355.77
2014/2/12	18:14:40	0.02	24.18
2014/2/12	18:19:40	0.40	351.31
2014/2/12	18:24:40	0.02	289.92
2014/2/12	18:29:40	0.02	354.21
2014/2/12	18:34:40	0.05	244.46
2014/2/12	18:39:40	0.02	234.99
2014/2/12	18:44:40	0.72	40.22
2014/2/12	18:49:40	0.02	1.67
2014/2/12	18:54:40	1.93	32.31
2014/2/12	18:59:40	0.03	351.75
2014/2/12	19:04:40	0.02	222.28
2014/2/12	19:09:40	0.03	270.08
2014/2/12	19:14:40	0.02	230.75
2014/2/12	19:19:40	0.54	335.38
2014/2/12	19:24:40	0.35	66.18
2014/2/12	19:29:40	0.02	215.60
2014/2/12	19:34:40	0.02	245.57
2014/2/12	19:39:40	0.02	16.94
2014/2/12	19:44:40	0.02	247.80
2014/2/12	19:49:40	0.11	266.96

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Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/2/12	19:54:40	0.03	263.29
2014/2/12	19:59:40	0.02	259.72
2014/2/12	20:04:40	0.02	360.67
2014/2/12	20:09:40	0.02	115.65
2014/2/12	20:14:40	0.52	49.03
2014/2/12	20:19:40	0.15	67.52
2014/2/12	20:24:40	0.11	79.00
2014/2/12	20:29:40	0.02	60.28
2014/2/12	20:34:40	0.02	66.52
2014/2/12	20:39:40	0.02	72.53
2014/2/12	20:44:40	0.02	247.91
2014/2/12	20:49:40	0.02	212.37
2014/2/12	20:54:40	0.02	10.03
2014/2/12	20:59:40	0.06	45.68
2014/2/12	21:04:40	0.02	6.69
2014/2/12	21:09:40	0.47	5.13
2014/2/12	21:14:40	0.50	-45.35
2014/2/12	21:19:40	0.02	351.42
2014/2/12	21:24:40	0.02	351.31
2014/2/12	21:29:40	0.02	67.63
2014/2/12	21:34:40	0.02	245.24
2014/2/12	21:39:40	0.02	324.90
2014/2/12	21:44:40	0.02	292.70
2014/2/12	21:49:40	0.02	221.62
2014/2/12	21:54:40	0.03	349.08
2014/2/12	21:59:40	0.02	350.19
2014/2/12	22:04:40	0.52	354.87
2014/2/12	22:09:40	0.02	274.87
2014/2/12	22:14:40	0.02	325.57
2014/2/12	22:19:40	0.02	318.89
2014/2/12	22:24:40	0.02	-45.35
2014/2/12	22:29:40	0.02	277.88
2014/2/12	22:34:40	0.02	277.88
2014/2/12	22:39:40	0.02	261.39
2014/2/12	22:44:40	0.02	283.45
2014/2/12	22:49:40	0.02	281.67
2014/2/12	22:54:40	0.02	262.84
2014/2/12	22:59:40	0.02	262.84
2014/2/12	23:04:40	0.02	247.80
2014/2/12	23:09:40	0.03	99.28
2014/2/12	23:14:40	0.02	229.97
2014/2/12	23:19:40	0.14	155.77
2014/2/12	23:24:40	0.02	211.36

Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/12	23:29:40	0.18	179.16
2014/2/12	23:34:40	0.02	202.56
2014/2/12	23:39:40	0.02	245.57
2014/2/12	23:44:40	0.02	318.66
2014/2/12	23:49:40	0.24	251.14
2014/2/12	23:54:40	0.72	321.89
2014/2/12	23:59:40	0.03	265.74
2014/2/18	00:02:23	0.02	25.63
2014/2/18	00:07:23	0.02	231.20
2014/2/18	00:12:23	0.02	231.09
2014/2/18	00:17:23	0.02	231.09
2014/2/18	00:22:23	0.02	231.09
2014/2/18	00:27:23	0.02	339.72
2014/2/18	00:32:23	0.02	339.83
2014/2/18	00:37:23	0.02	339.83
2014/2/18	00:42:23	0.02	339.83
2014/2/18	00:47:23	0.02	339.94
2014/2/18	00:52:23	0.02	339.94
2014/2/18	00:57:23	0.02	339.94
2014/2/18	01:02:23	0.02	339.94
2014/2/18	01:07:23	0.02	340.06
2014/2/18	01:12:23	0.02	339.94
2014/2/18	01:17:23	0.02	250.25
2014/2/18	01:22:23	0.02	250.03
2014/2/18	01:27:23	0.02	250.03
2014/2/18	01:32:23	0.23	135.82
2014/2/18	01:37:23	0.02	76.88
2014/2/18	01:42:23	0.02	95.93
2014/2/18	01:47:23	0.02	135.04
2014/2/18	01:52:23	0.02	138.05
2014/2/18	01:57:23	0.02	152.65
2014/2/18	02:02:23	0.02	201.78
2014/2/18	02:07:23	0.03	171.14
2014/2/18	02:12:23	0.47	80.56
2014/2/18	02:17:23	0.02	125.46
2014/2/18	02:22:23	0.02	43.34
2014/2/18	02:27:23	0.02	253.82
2014/2/18	02:32:23	0.02	72.53
2014/2/18	02:37:23	0.02	102.17
2014/2/18	02:42:23	0.02	122.90
2014/2/18	02:47:23	0.02	83.23
2014/2/18	02:52:23	0.02	79.89
2014/2/18	02:57:23	0.02	58.05

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/2/18	03:02:23	0.03	131.81
2014/2/18	03:07:23	0.08	68.75
2014/2/18	03:12:23	0.02	121.34
2014/2/18	03:17:23	0.02	136.71
2014/2/18	03:22:23	0.02	156.55
2014/2/18	03:27:23	0.02	148.08
2014/2/18	03:32:23	0.02	181.39
2014/2/18	03:37:23	0.02	112.53
2014/2/18	03:42:23	0.03	113.31
2014/2/18	03:47:23	0.02	91.70
2014/2/18	03:52:23	0.02	94.15
2014/2/18	03:57:23	0.02	122.01
2014/2/18	04:02:23	0.02	249.03
2014/2/18	04:07:23	0.02	198.55
2014/2/18	04:12:23	0.02	180.06
2014/2/18	04:17:23	0.02	134.48
2014/2/18	04:22:23	0.06	101.84
2014/2/18	04:27:23	0.03	106.30
2014/2/18	04:32:23	0.03	77.21
2014/2/18	04:37:23	0.06	119.67
2014/2/18	04:42:23	0.03	106.85
2014/2/18	04:47:23	0.14	93.70
2014/2/18	04:52:23	0.02	105.52
2014/2/18	04:57:23	0.02	105.18
2014/2/18	05:02:23	0.02	118.44
2014/2/18	05:07:23	0.15	97.27
2014/2/18	05:12:23	0.12	139.61
2014/2/18	05:17:23	0.02	104.07
2014/2/18	05:22:23	0.02	114.65
2014/2/18	05:27:23	0.02	220.95
2014/2/18	05:32:23	0.24	240.11
2014/2/18	05:37:23	0.02	239.44
2014/2/18	05:42:23	0.02	-0.11
2014/2/18	05:47:23	0.02	270.97
2014/2/18	05:52:23	0.02	284.90
2014/2/18	05:57:23	0.02	182.06
2014/2/18	06:02:23	0.02	354.09
2014/2/18	06:07:23	0.02	351.53
2014/2/18	06:12:23	0.02	181.28
2014/2/18	06:17:23	0.02	122.01
2014/2/18	06:22:23	0.02	109.19
2014/2/18	06:27:23	0.02	127.24
2014/2/18	06:32:23	0.02	114.76

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/2/18	06:37:23	0.02	211.36
2014/2/18	06:42:23	0.02	174.60
2014/2/18	06:47:23	0.02	111.20
2014/2/18	06:52:23	0.02	111.20
2014/2/18	06:57:23	0.02	111.31
2014/2/18	07:02:23	0.02	64.18
2014/2/18	07:07:23	0.02	63.29
2014/2/18	07:12:23	0.02	347.74
2014/2/18	07:17:23	0.02	249.25
2014/2/18	07:22:23	0.02	2.12
2014/2/18	07:27:23	0.02	269.08
2014/2/18	07:32:23	0.03	256.60
2014/2/18	07:37:23	0.02	276.21
2014/2/18	07:42:23	0.02	285.13
2014/2/18	07:47:23	0.02	294.26
2014/2/18	07:52:23	0.47	274.76
2014/2/18	07:57:23	0.02	236.32
2014/2/18	08:02:23	0.02	47.35
2014/2/18	08:07:23	0.02	343.62
2014/2/18	08:12:23	0.02	62.84
2014/2/18	08:17:23	0.02	62.84
2014/2/18	08:22:23	0.02	14.82
2014/2/18	08:27:23	0.02	0.56
2014/2/18	08:32:23	0.02	0.56
2014/2/18	08:37:23	0.02	20.39
2014/2/18	08:42:23	0.03	21.39
2014/2/18	08:47:23	0.02	7.13
2014/2/18	08:52:23	0.02	7.13
2014/2/18	08:57:23	0.02	7.24
2014/2/18	09:02:23	0.02	7.58
2014/2/18	09:07:23	0.02	7.58
2014/2/18	09:12:23	0.02	7.47
2014/2/18	09:17:23	0.02	7.58
2014/2/18	09:22:23	0.02	7.47
2014/2/18	09:27:23	0.03	281.23
2014/2/18	09:32:23	0.03	285.57
2014/2/18	09:37:23	0.02	28.41
2014/2/18	09:42:23	0.02	316.99
2014/2/18	09:47:23	0.02	23.73
2014/2/18	09:52:23	0.02	346.85
2014/2/18	09:57:23	0.37	246.69
2014/2/18	10:02:23	0.02	243.68
2014/2/18	10:07:23	0.02	291.48



Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/18	10:12:23	0.02	214.93
2014/2/18	10:17:23	0.02	332.92
2014/2/18	10:22:23	0.02	43.23
2014/2/18	10:27:23	0.12	253.70
2014/2/18	10:32:23	0.02	42.79
2014/2/18	10:37:23	0.02	6.13
2014/2/18	10:42:23	0.08	266.30
2014/2/18	10:47:23	0.02	251.36
2014/2/18	10:52:23	0.29	2.23
2014/2/18	10:57:23	0.02	340.17
2014/2/18	11:02:23	0.02	290.25
2014/2/18	11:07:23	0.05	286.35
2014/2/18	11:12:23	0.02	313.76
2014/2/18	11:17:23	0.02	296.04
2014/2/18	11:22:23	0.02	208.47
2014/2/18	11:27:23	0.02	306.63
2014/2/18	11:32:23	0.02	354.54
2014/2/18	11:37:23	0.02	272.09
2014/2/18	11:42:23	0.02	337.49
2014/2/18	11:47:23	0.02	259.39
2014/2/18	11:52:23	0.02	211.59
2014/2/18	11:57:23	0.02	302.62
2014/2/18	12:02:23	0.02	22.84
2014/2/18	12:07:23	0.28	47.80
2014/2/18	12:12:23	0.21	350.19
2014/2/18	12:17:23	0.02	5.57
2014/2/18	12:22:23	0.18	55.60
2014/2/18	12:27:23	0.02	2.79
2014/2/18	12:32:23	0.02	205.79
2014/2/18	12:37:23	0.02	346.63
2014/2/18	12:42:23	0.47	239.55
2014/2/18	12:47:23	0.02	6.35
2014/2/18	12:52:23	0.43	42.34
2014/2/18	12:57:23	0.52	254.04
2014/2/18	13:02:23	0.43	341.84
2014/2/18	13:07:23	0.02	263.06
2014/2/18	13:12:23	0.02	235.77
2014/2/18	13:17:23	0.34	243.01
2014/2/18	13:22:23	0.02	275.99
2014/2/18	13:27:23	1.13	281.11
2014/2/18	13:32:23	0.03	23.73
2014/2/18	13:37:23	1.35	250.47
2014/2/18	13:42:23	0.87	313.31

Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/18	13:47:23	1.73	250.70
2014/2/18	13:52:23	0.03	267.19
2014/2/18	13:57:23	0.02	292.03
2014/2/18	14:02:23	2.58	13.59
2014/2/18	14:07:23	2.32	341.39
2014/2/18	14:12:23	0.06	24.85
2014/2/18	14:17:23	0.67	283.23
2014/2/18	14:22:23	0.02	3.12
2014/2/18	14:27:23	0.02	216.71
2014/2/18	14:32:23	0.02	52.14
2014/2/18	14:37:23	0.26	268.30
2014/2/18	14:42:23	1.07	356.32
2014/2/18	14:47:23	1.38	269.08
2014/2/18	14:52:23	0.73	60.39
2014/2/18	14:57:23	0.02	356.10
2014/2/18	15:02:23	0.17	344.07
2014/2/18	15:07:23	0.02	261.28
2014/2/18	15:12:23	0.15	355.21
2014/2/18	15:17:23	0.24	27.74
2014/2/18	15:22:23	0.02	259.83
2014/2/18	15:27:23	0.08	264.18
2014/2/18	15:32:23	0.05	202.79
2014/2/18	15:37:23	0.50	217.16
2014/2/18	15:42:23	0.21	299.39
2014/2/18	15:47:23	0.73	247.91
2014/2/18	15:52:23	0.17	333.59
2014/2/18	15:57:23	0.02	316.99
2014/2/18	16:02:23	0.02	244.35
2014/2/18	16:07:23	0.02	310.64
2014/2/18	16:12:23	0.20	324.12
2014/2/18	16:17:23	0.05	269.97
2014/2/18	16:22:23	0.08	207.58
2014/2/18	16:27:23	0.67	232.53
2014/2/18	16:32:23	0.38	234.54
2014/2/18	16:37:23	0.18	270.19
2014/2/18	16:42:23	0.50	50.70
2014/2/18	16:47:23	0.23	226.74
2014/2/18	16:52:23	0.50	322.67
2014/2/18	16:57:23	0.02	44.57
2014/2/18	17:02:23	0.02	211.03
2014/2/18	17:07:23	0.02	169.36
2014/2/18	17:12:23	0.08	151.20
2014/2/18	17:17:23	0.02	289.58

Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/18	17:22:23	0.02	333.04
2014/2/18	17:27:23	0.17	306.07
2014/2/18	17:32:23	0.02	5.46
2014/2/18	17:37:23	1.64	4.79
2014/2/18	17:42:23	0.03	241.34
2014/2/18	17:47:23	0.02	247.47
2014/2/18	17:52:23	1.73	271.98
2014/2/18	17:57:23	3.53	3.01
2014/2/18	18:02:23	1.77	341.17
2014/2/18	18:07:23	0.90	246.46
2014/2/18	18:12:23	0.67	177.27
2014/2/18	18:17:23	0.64	253.82
2014/2/18	18:22:23	0.05	352.76
2014/2/18	18:27:23	0.02	277.99
2014/2/18	18:32:23	0.18	334.48
2014/2/18	18:37:23	0.86	251.70
2014/2/18	18:42:23	0.81	243.90
2014/2/18	18:47:23	1.09	319.11
2014/2/18	18:52:23	0.06	244.57
2014/2/18	18:57:23	0.02	319.00
2014/2/18	19:02:23	0.03	245.01
2014/2/18	19:07:23	0.44	251.48
2014/2/18	19:12:23	0.64	218.05
2014/2/18	19:17:23	0.38	272.09
2014/2/18	19:22:23	0.17	252.37
2014/2/18	19:27:23	0.02	18.83
2014/2/18	19:32:23	0.02	17.38
2014/2/18	19:37:23	0.02	280.33
2014/2/18	19:42:23	0.17	304.74
2014/2/18	19:47:23	0.02	241.00
2014/2/18	19:52:23	1.80	222.73
2014/2/18	19:57:23	0.61	11.59
2014/2/18	20:02:23	0.21	190.08
2014/2/18	20:07:23	0.03	283.57
2014/2/18	20:12:23	0.49	305.85
2014/2/18	20:17:23	0.02	246.02
2014/2/18	20:22:23	0.98	7.58
2014/2/18	20:27:23	1.58	244.35
2014/2/18	20:32:23	1.25	358.11
2014/2/18	20:37:23	0.06	143.29
2014/2/18	20:42:23	1.68	307.63
2014/2/18	20:47:23	0.41	291.03
2014/2/18	20:52:23	0.83	8.58

Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/18	20:57:23	2.05	279.11
2014/2/18	21:02:23	0.15	26.41
2014/2/18	21:07:23	0.20	354.43
2014/2/18	21:12:23	1.50	357.21
2014/2/18	21:17:23	0.52	269.30
2014/2/18	21:22:23	1.35	332.26
2014/2/18	21:27:23	0.03	8.69
2014/2/18	21:32:23	0.08	28.97
2014/2/18	21:37:23	0.08	315.21
2014/2/18	21:42:23	0.73	310.53
2014/2/18	21:47:23	0.06	145.96
2014/2/18	21:52:23	0.06	251.03
2014/2/18	21:57:23	0.37	255.49
2014/2/18	22:02:23	0.67	218.61
2014/2/18	22:07:23	0.46	353.87
2014/2/18	22:12:23	0.06	35.43
2014/2/18	22:17:23	1.65	359.78
2014/2/18	22:22:23	0.21	327.02
2014/2/18	22:27:23	3.07	266.41
2014/2/18	22:32:23	0.18	230.64
2014/2/18	22:37:23	0.55	300.95
2014/2/18	22:42:23	0.23	250.81
2014/2/18	22:47:23	0.20	223.96
2014/2/18	22:52:23	0.20	290.47
2014/2/18	22:57:23	0.49	282.01
2014/2/18	23:02:23	0.18	289.25
2014/2/18	23:07:23	0.28	223.96
2014/2/18	23:12:23	0.02	354.54
2014/2/18	23:17:23	0.09	75.99
2014/2/18	23:22:23	0.66	211.81
2014/2/18	23:27:23	0.44	247.69
2014/2/18	23:32:23	0.02	263.73
2014/2/18	23:37:23	0.02	81.34
2014/2/18	23:42:23	1.48	348.75
2014/2/18	23:47:23	0.35	248.13
2014/2/18	23:52:23	1.70	237.55
2014/2/18	23:57:23	0.06	320.78
2014/2/24	00:02:23	0.02	109.86
2014/2/24	00:07:23	0.03	82.79
2014/2/24	00:12:23	0.02	202.01
2014/2/24	00:17:23	0.26	120.11
2014/2/24	00:22:23	0.02	262.28
2014/2/24	00:27:23	0.28	143.51

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<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/24	00:32:23	0.02	152.09
2014/2/24	00:37:23	1.48	152.53
2014/2/24	00:42:23	0.03	356.32
2014/2/24	00:47:23	0.14	9.36
2014/2/24	00:52:23	0.02	186.41
2014/2/24	00:57:23	0.02	125.35
2014/2/24	01:02:23	0.02	252.59
2014/2/24	01:07:23	0.58	36.10
2014/2/24	01:12:23	0.03	60.61
2014/2/24	01:17:23	0.08	192.31
2014/2/24	01:22:23	0.02	221.28
2014/2/24	01:27:23	0.02	328.47
2014/2/24	01:32:23	0.02	116.10
2014/2/24	01:37:23	0.02	139.28
2014/2/24	01:42:23	0.02	116.32
2014/2/24	01:47:23	0.02	83.68
2014/2/24	01:52:23	0.02	159.67
2014/2/24	01:57:23	0.02	159.44
2014/2/24	02:02:23	0.02	38.55
2014/2/24	02:07:23	0.02	243.12
2014/2/24	02:12:23	0.02	78.22
2014/2/24	02:17:23	0.09	135.49
2014/2/24	02:22:23	0.89	123.34
2014/2/24	02:27:23	0.60	166.35
2014/2/24	02:32:23	0.02	229.86
2014/2/24	02:37:23	0.66	40.89
2014/2/24	02:42:23	0.47	132.92
2014/2/24	02:47:23	0.02	174.26
2014/2/24	02:52:23	0.63	257.94
2014/2/24	02:57:23	2.71	75.43
2014/2/24	03:02:23	0.67	41.34
2014/2/24	03:07:23	0.02	63.73
2014/2/24	03:12:23	0.99	158.44
2014/2/24	03:17:23	0.93	128.91
2014/2/24	03:22:23	0.20	111.75
2014/2/24	03:27:23	0.52	210.47
2014/2/24	03:32:23	1.53	156.99
2014/2/24	03:37:23	0.57	158.33
2014/2/24	03:42:23	0.67	124.46
2014/2/24	03:47:23	0.02	257.38
2014/2/24	03:52:23	0.80	176.71
2014/2/24	03:57:23	0.03	138.05
2014/2/24	04:02:23	2.77	215.82

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<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/24	04:07:23	0.02	134.37
2014/2/24	04:12:23	0.70	190.64
2014/2/24	04:17:23	0.63	166.35
2014/2/24	04:22:23	0.06	125.35
2014/2/24	04:27:23	2.14	136.38
2014/2/24	04:32:23	1.74	161.00
2014/2/24	04:37:23	0.52	295.60
2014/2/24	04:42:23	0.02	157.33
2014/2/24	04:47:23	0.28	178.05
2014/2/24	04:52:23	0.02	221.62
2014/2/24	04:57:23	0.23	106.85
2014/2/24	05:02:23	1.24	226.41
2014/2/24	05:07:23	0.02	136.04
2014/2/24	05:12:23	0.02	5.91
2014/2/24	05:17:23	1.71	170.81
2014/2/24	05:22:23	1.35	67.19
2014/2/24	05:27:23	0.06	179.05
2014/2/24	05:32:23	0.02	198.33
2014/2/24	05:37:23	3.01	237.88
2014/2/24	05:42:23	1.61	162.34
2014/2/24	05:47:23	2.11	201.34
2014/2/24	05:52:23	0.11	227.19
2014/2/24	05:57:23	0.21	201.00
2014/2/24	06:02:23	0.05	239.89
2014/2/24	06:07:23	0.02	36.88
2014/2/24	06:12:23	0.02	318.89
2014/2/24	06:17:23	0.35	47.69
2014/2/24	06:22:23	0.38	264.62
2014/2/24	06:27:23	0.02	125.35
2014/2/24	06:32:23	1.56	122.67
2014/2/24	06:37:23	0.40	178.61
2014/2/24	06:42:23	0.31	108.52
2014/2/24	06:47:23	0.02	179.05
2014/2/24	06:52:23	0.81	268.19
2014/2/24	06:57:23	0.03	95.38
2014/2/24	07:02:23	0.58	79.89
2014/2/24	07:07:23	0.05	168.13
2014/2/24	07:12:23	0.31	92.48
2014/2/24	07:17:23	0.02	28.08
2014/2/24	07:22:23	0.49	32.09
2014/2/24	07:27:23	2.49	250.81
2014/2/24	07:32:23	1.16	157.88
2014/2/24	07:37:23	0.14	124.79

Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/24	07:42:23	0.80	150.42
2014/2/24	07:47:23	2.08	223.51
2014/2/24	07:52:23	0.57	149.19
2014/2/24	07:57:23	1.25	71.09
2014/2/24	08:02:23	0.37	274.54
2014/2/24	08:07:23	0.21	95.82
2014/2/24	08:12:23	1.10	136.49
2014/2/24	08:17:23	0.03	348.86
2014/2/24	08:22:23	0.11	274.32
2014/2/24	08:27:23	1.50	228.52
2014/2/24	08:32:23	0.37	178.83
2014/2/24	08:37:23	0.02	206.69
2014/2/24	08:42:23	2.06	181.50
2014/2/24	08:47:23	0.02	180.17
2014/2/24	08:52:23	0.60	146.30
2014/2/24	08:57:23	0.90	154.54
2014/2/24	09:02:23	0.05	204.01
2014/2/24	09:07:23	0.03	295.93
2014/2/24	09:12:23	0.57	240.89
2014/2/24	09:17:23	0.02	155.43
2014/2/24	09:22:23	0.67	138.50
2014/2/24	09:27:23	0.40	236.99
2014/2/24	09:32:23	0.37	59.39
2014/2/24	09:37:23	0.49	62.73
2014/2/24	09:42:23	1.96	132.37
2014/2/24	09:46:42	0.20	90.58
2014/2/24	09:56:42	1.58	83.68
2014/2/24	10:01:42	1.36	109.30
2014/2/24	10:06:42	0.58	78.11
2014/2/24	10:11:42	1.09	5.24
2014/2/24	10:16:42	1.02	158.77
2014/2/24	10:21:42	2.22	28.52
2014/2/24	10:26:42	0.80	121.89
2014/2/24	10:31:42	0.02	59.50
2014/2/24	10:36:42	3.44	68.52
2014/2/24	10:41:42	1.01	102.51
2014/2/24	10:46:42	5.69	77.99
2014/2/24	10:51:42	2.98	66.52
2014/2/24	10:56:42	1.84	60.72
2014/2/24	11:01:42	1.70	97.49
2014/2/24	11:06:42	3.98	110.31
2014/2/24	11:11:42	2.03	116.66
2014/2/24	11:16:42	0.69	80.33

Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/24	11:21:42	0.41	102.40
2014/2/24	11:26:42	1.88	30.75
2014/2/24	11:31:42	2.65	41.34
2014/2/24	11:36:42	2.89	91.36
2014/2/24	11:41:42	5.20	54.15
2014/2/24	11:46:42	1.48	59.94
2014/2/24	11:51:42	0.02	26.30
2014/2/24	11:56:42	2.42	85.68
2014/2/24	12:01:42	2.03	127.91
2014/2/24	12:06:42	1.84	43.90
2014/2/24	12:11:42	3.81	79.22
2014/2/24	12:16:42	1.82	71.87
2014/2/24	12:21:42	3.75	154.21
2014/2/24	12:26:42	0.83	56.71
2014/2/24	12:31:42	1.80	67.97
2014/2/24	12:36:42	1.76	10.14
2014/2/24	12:41:42	0.55	135.49
2014/2/24	12:46:42	0.73	129.25
2014/2/24	12:51:42	3.38	64.74
2014/2/24	12:56:42	3.09	73.20
2014/2/24	13:01:42	0.81	128.36
2014/2/24	13:06:42	1.84	115.54
2014/2/24	13:11:42	1.18	101.28
2014/2/24	13:16:42	1.12	88.13
2014/2/24	13:21:42	1.91	133.70
2014/2/24	13:26:42	2.83	215.26
2014/2/24	13:31:42	3.96	130.92
2014/2/24	13:36:42	0.32	221.73
2014/2/24	13:41:42	1.41	264.96
2014/2/24	13:46:42	1.18	242.34
2014/2/24	13:51:42	0.78	100.28
2014/2/24	13:56:42	1.12	92.14
2014/2/24	14:01:42	1.96	118.44
2014/2/24	14:06:42	2.23	71.53
2014/2/24	14:11:42	0.38	8.13
2014/2/24	14:16:42	0.21	57.83
2014/2/24	14:21:42	1.76	126.35
2014/2/24	14:26:42	3.40	138.72
2014/2/24	14:31:42	0.31	151.09
2014/2/24	14:36:42	3.09	60.17
2014/2/24	14:41:42	2.78	326.24
2014/2/24	14:46:42	0.29	73.09
2014/2/24	14:51:42	0.69	33.65



Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/24	14:56:42	0.78	159.78
2014/2/24	15:01:42	0.98	55.15
2014/2/24	15:06:42	0.02	294.37
2014/2/24	15:11:42	0.02	43.34
2014/2/24	15:16:42	2.94	124.46
2014/2/24	15:21:42	1.58	107.52
2014/2/24	15:26:42	0.09	120.45
2014/2/24	15:31:42	1.32	72.09
2014/2/24	15:36:42	0.93	123.23
2014/2/24	15:41:42	0.02	133.82
2014/2/24	15:46:42	2.19	168.02
2014/2/24	15:51:42	0.55	175.93
2014/2/24	15:56:42	0.58	182.40
2014/2/24	16:01:42	0.02	99.39
2014/2/24	16:06:42	0.83	127.24
2014/2/24	16:11:42	1.42	193.43
2014/2/24	16:16:42	0.18	107.86
2014/2/24	16:21:42	0.02	103.29
2014/2/24	16:26:42	0.75	179.16
2014/2/24	16:31:42	2.80	158.55
2014/2/24	16:36:42	0.54	119.11
2014/2/24	16:41:42	0.78	131.25
2014/2/24	16:46:42	0.75	91.03
2014/2/24	16:51:42	0.63	41.11
2014/2/24	16:56:42	1.30	109.30
2014/2/24	17:01:42	3.24	56.60
2014/2/24	17:06:42	1.12	113.98
2014/2/24	17:11:42	1.27	55.38
2014/2/24	17:16:42	0.06	65.85
2014/2/24	17:21:42	0.02	129.36
2014/2/24	17:26:42	0.02	99.72
2014/2/24	17:31:42	0.66	60.95
2014/2/24	17:36:42	0.02	85.57
2014/2/24	17:41:42	0.24	80.22
2014/2/24	17:46:42	0.14	61.50
2014/2/24	17:51:42	0.61	65.18
2014/2/24	17:56:42	0.02	162.01
2014/2/24	18:01:42	0.02	79.78
2014/2/24	18:06:42	0.02	179.28
2014/2/24	18:11:42	0.64	75.88
2014/2/24	18:16:42	0.34	93.59
2014/2/24	18:21:42	0.35	53.82
2014/2/24	18:26:42	0.02	67.74

Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/24	18:31:42	0.02	206.24
2014/2/24	18:36:42	0.32	149.75
2014/2/24	18:41:42	2.10	144.29
2014/2/24	18:46:42	2.88	148.52
2014/2/24	18:51:42	0.02	50.03
2014/2/24	18:56:42	0.86	160.45
2014/2/24	19:01:42	1.67	158.89
2014/2/24	19:06:42	0.24	48.58
2014/2/24	19:11:42	0.89	212.26
2014/2/24	19:16:42	0.02	294.82
2014/2/24	19:21:42	0.87	153.98
2014/2/24	19:26:42	0.38	24.18
2014/2/24	19:31:42	0.98	145.07
2014/2/24	19:36:42	0.37	172.37
2014/2/24	19:41:42	0.29	194.65
2014/2/24	19:46:42	0.31	37.21
2014/2/24	19:51:42	0.54	166.46
2014/2/24	19:56:42	0.76	153.76
2014/2/24	20:01:42	0.38	15.38
2014/2/24	20:06:42	0.26	114.87
2014/2/24	20:11:42	0.02	81.23
2014/2/24	20:16:42	0.26	74.09
2014/2/24	20:21:42	0.21	117.99
2014/2/24	20:26:42	0.24	132.81
2014/2/24	20:31:42	0.14	257.49
2014/2/24	20:36:42	1.15	76.21
2014/2/24	20:41:42	1.68	161.11
2014/2/24	20:46:42	1.48	145.96
2014/2/24	20:51:42	0.02	138.38
2014/2/24	20:56:42	0.31	118.11
2014/2/24	21:01:42	1.13	169.92
2014/2/24	21:06:42	0.02	93.37
2014/2/24	21:11:42	0.02	80.56
2014/2/24	21:16:42	1.50	235.32
2014/2/24	21:21:42	0.70	79.44
2014/2/24	21:26:42	0.23	185.63
2014/2/24	21:31:42	0.87	153.20
2014/2/24	21:36:42	0.28	191.31
2014/2/24	21:41:42	0.02	147.86
2014/2/24	21:46:42	0.02	138.50
2014/2/24	21:51:42	0.11	76.43
2014/2/24	21:56:42	0.17	5.57
2014/2/24	22:01:42	2.00	176.16

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<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/24	22:06:42	0.02	202.45
2014/2/24	22:11:42	0.43	50.47
2014/2/24	22:16:42	0.02	209.25
2014/2/24	22:21:42	0.95	102.73
2014/2/24	22:26:42	0.41	143.96
2014/2/24	22:31:42	0.03	86.46
2014/2/24	22:36:42	0.02	340.17
2014/2/24	22:41:42	0.12	55.38
2014/2/24	22:46:42	1.10	229.64
2014/2/24	22:51:42	1.64	144.07
2014/2/24	22:56:42	0.02	246.80
2014/2/24	23:01:42	0.02	92.59
2014/2/24	23:06:42	0.28	140.28
2014/2/24	23:11:42	0.02	343.06
2014/2/24	23:16:42	0.02	40.00
2014/2/24	23:21:42	1.48	177.83
2014/2/24	23:26:42	0.17	63.40
2014/2/24	23:31:42	0.78	152.20
2014/2/24	23:36:42	0.14	57.49
2014/2/24	23:41:42	1.35	120.22
2014/2/24	23:46:42	0.02	164.57
2014/2/24	23:51:42	0.05	167.91
2014/2/24	23:56:42	0.92	105.07
2014/2/28	00:01:42	1.48	212.37
2014/2/28	00:06:42	0.21	74.76
2014/2/28	00:11:42	1.18	264.96
2014/2/28	00:16:42	0.81	54.71
2014/2/28	00:21:42	1.36	256.38
2014/2/28	00:26:42	0.14	157.21
2014/2/28	00:31:42	0.02	25.85
2014/2/28	00:36:42	0.02	5.13
2014/2/28	00:41:42	0.06	114.65
2014/2/28	00:46:42	0.02	284.23
2014/2/28	00:51:42	0.02	75.99
2014/2/28	00:56:42	0.02	132.59
2014/2/28	01:01:42	1.90	187.08
2014/2/28	01:06:42	1.21	107.41
2014/2/28	01:11:42	3.72	71.64
2014/2/28	01:16:42	0.63	72.42
2014/2/28	01:21:42	0.02	290.36
2014/2/28	01:26:42	0.17	99.28
2014/2/28	01:31:42	1.38	111.42
2014/2/28	01:36:42	0.26	120.67

Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/28	01:41:42	0.23	155.43
2014/2/28	01:46:42	1.44	197.99
2014/2/28	01:51:42	0.08	72.09
2014/2/28	01:56:42	0.46	140.72
2014/2/28	02:01:42	0.63	56.04
2014/2/28	02:06:42	0.43	110.19
2014/2/28	02:11:42	1.61	155.77
2014/2/28	02:16:42	1.18	237.88
2014/2/28	02:21:42	3.81	139.83
2014/2/28	02:26:42	1.73	104.07
2014/2/28	02:31:42	0.38	111.75
2014/2/28	02:36:42	2.62	186.30
2014/2/28	02:41:42	4.44	126.35
2014/2/28	02:46:42	2.77	77.21
2014/2/28	02:51:42	0.02	120.89
2014/2/28	02:56:42	0.02	204.35
2014/2/28	03:01:42	0.28	106.52
2014/2/28	03:06:42	0.02	47.80
2014/2/28	03:11:42	3.17	123.34
2014/2/28	03:16:42	0.28	89.92
2014/2/28	03:21:42	0.02	211.48
2014/2/28	03:26:42	2.00	136.27
2014/2/28	03:31:42	0.34	83.45
2014/2/28	03:36:42	0.84	118.22
2014/2/28	03:41:42	0.24	43.90
2014/2/28	03:46:42	0.02	31.64
2014/2/28	03:51:42	0.02	186.63
2014/2/28	03:56:42	1.59	78.33
2014/2/28	04:01:42	1.47	62.95
2014/2/28	04:06:42	0.03	146.07
2014/2/28	04:11:42	0.02	114.43
2014/2/28	04:16:42	0.02	186.52
2014/2/28	04:21:42	1.15	224.51
2014/2/28	04:26:42	0.32	46.35
2014/2/28	04:31:42	3.75	161.00
2014/2/28	04:36:42	3.17	102.73
2014/2/28	04:41:42	1.02	180.39
2014/2/28	04:46:42	2.92	71.31
2014/2/28	04:51:42	0.06	354.87
2014/2/28	04:56:42	0.02	157.10
2014/2/28	05:01:42	0.02	213.59
2014/2/28	05:06:42	0.99	99.05
2014/2/28	05:11:42	0.64	227.52

Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/28	05:16:42	1.91	182.95
2014/2/28	05:21:42	1.12	168.58
2014/2/28	05:26:42	0.32	249.25
2014/2/28	05:31:42	1.06	39.11
2014/2/28	05:36:42	3.73	159.22
2014/2/28	05:41:42	2.02	168.13
2014/2/28	05:46:42	2.83	145.07
2014/2/28	05:51:42	0.57	139.05
2014/2/28	05:56:42	1.38	55.15
2014/2/28	06:01:42	1.10	99.28
2014/2/28	06:06:42	0.02	14.04
2014/2/28	06:11:42	0.02	75.54
2014/2/28	06:16:42	0.02	112.98
2014/2/28	06:21:42	0.61	141.84
2014/2/28	06:26:42	0.38	78.11
2014/2/28	06:31:42	0.02	31.87
2014/2/28	06:36:42	0.03	206.69
2014/2/28	06:41:42	0.23	147.63
2014/2/28	06:46:42	1.18	147.52
2014/2/28	06:51:42	1.27	173.93
2014/2/28	06:56:42	1.01	134.04
2014/2/28	07:01:42	0.37	171.70
2014/2/28	07:06:42	3.20	165.46
2014/2/28	07:11:42	0.80	197.21
2014/2/28	07:16:42	0.92	210.81
2014/2/28	07:21:42	0.29	237.10
2014/2/28	07:26:42	0.86	155.32
2014/2/28	07:31:42	2.42	166.69
2014/2/28	07:36:42	1.35	66.18
2014/2/28	07:41:42	1.04	127.91
2014/2/28	07:46:42	0.20	104.85
2014/2/28	07:51:42	1.09	221.17
2014/2/28	07:56:42	0.28	353.43
2014/2/28	08:01:42	0.73	59.83
2014/2/28	08:06:42	1.59	30.64
2014/2/28	08:11:42	2.94	102.17
2014/2/28	08:16:42	3.79	138.61
2014/2/28	08:21:42	0.78	108.86
2014/2/28	08:26:42	0.78	193.76
2014/2/28	08:31:42	0.02	347.86
2014/2/28	08:36:42	0.64	103.40
2014/2/28	08:41:42	0.98	44.23
2014/2/28	08:46:42	2.58	155.32

Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/28	08:51:42	1.12	145.29
2014/2/28	08:56:42	0.14	166.13
2014/2/28	09:01:42	2.52	120.56
2014/2/28	09:06:42	0.76	233.09
2014/2/28	09:11:42	0.15	192.76
2014/2/28	09:16:42	0.02	55.82
2014/2/28	09:21:42	0.14	96.82
2014/2/28	09:26:42	0.70	7.47
2014/2/28	09:31:42	3.35	185.52
2014/2/28	09:36:42	2.23	141.50
2014/2/28	09:41:42	2.62	153.31
2014/2/28	09:46:42	0.02	173.70
2014/2/28	09:51:42	1.07	60.72
2014/2/28	09:56:42	0.20	113.09
2014/2/28	10:01:42	1.10	75.88
2014/2/28	10:06:42	2.75	104.74
2014/2/28	10:11:42	1.84	70.53
2014/2/28	10:16:42	2.81	66.18
2014/2/28	10:21:42	1.38	59.83
2014/2/28	10:26:42	0.87	92.14
2014/2/28	10:31:42	0.41	28.30
2014/2/28	10:36:42	1.01	88.69
2014/2/28	10:41:42	0.49	43.90
2014/2/28	10:46:42	1.36	155.32
2014/2/28	10:51:42	0.32	162.34
2014/2/28	10:56:42	3.53	114.21
2014/2/28	11:01:42	1.90	179.39
2014/2/28	11:06:42	0.99	66.52
2014/2/28	11:11:42	0.63	88.91
2014/2/28	11:16:42	1.35	129.47
2014/2/28	11:21:42	0.78	134.60
2014/2/28	11:26:42	0.17	69.86
2014/2/28	11:31:42	1.91	34.65
2014/2/28	11:36:42	0.61	75.32
2014/2/28	11:41:42	2.14	89.81
2014/2/28	11:46:42	1.53	44.01
2014/2/28	11:51:42	0.41	68.86
2014/2/28	11:56:42	2.26	96.27
2014/2/28	12:01:42	0.69	83.12
2014/2/28	12:06:42	1.93	64.40
2014/2/28	12:11:42	0.80	254.15
2014/2/28	12:16:42	4.83	153.31
2014/2/28	12:21:42	0.86	212.48

Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/28	12:26:42	1.25	42.56
2014/2/28	12:31:42	1.77	130.14
2014/2/28	12:36:42	2.08	159.44
2014/2/28	12:41:42	2.77	103.73
2014/2/28	12:46:42	1.04	117.55
2014/2/28	12:51:42	1.91	137.60
2014/2/28	12:56:42	1.19	161.89
2014/2/28	13:01:42	1.15	103.18
2014/2/28	13:06:42	0.02	344.40
2014/2/28	13:11:42	4.59	119.44
2014/2/28	13:16:42	1.18	85.01
2014/2/28	13:21:42	0.09	40.67
2014/2/28	13:26:42	0.80	245.01
2014/2/28	13:31:42	1.41	62.95
2014/2/28	13:36:42	1.06	176.16
2014/2/28	13:41:42	1.07	80.67
2014/2/28	13:46:42	2.89	88.69
2014/2/28	13:51:42	0.02	126.13
2014/2/28	13:56:42	0.02	199.67
2014/2/28	14:01:42	0.18	129.58
2014/2/28	14:06:42	1.28	126.69
2014/2/28	14:11:42	0.78	3.34
2014/2/28	14:16:42	0.50	163.68
2014/2/28	14:21:42	0.35	176.71
2014/2/28	14:26:42	0.64	101.95
2014/2/28	14:31:42	0.63	90.25
2014/2/28	14:36:42	1.42	201.45
2014/2/28	14:41:42	1.19	75.65
2014/2/28	14:46:42	0.83	141.50
2014/2/28	14:51:42	0.02	185.07
2014/2/28	14:56:42	1.10	114.43
2014/2/28	15:01:42	0.05	41.67
2014/2/28	15:06:42	0.23	127.58
2014/2/28	15:11:42	0.03	83.90
2014/2/28	15:16:42	0.02	234.32
2014/2/28	15:21:42	1.56	57.83
2014/2/28	15:26:42	0.05	110.42
2014/2/28	15:31:42	0.61	106.41
2014/2/28	15:36:42	0.02	29.64
2014/2/28	15:41:42	0.03	85.01
2014/2/28	15:46:42	0.61	134.15
2014/2/28	15:51:42	0.02	41.23
2014/2/28	15:56:42	0.02	62.73

Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/28	16:01:42	0.14	106.96
2014/2/28	16:06:42	1.28	157.44
2014/2/28	16:11:42	0.81	42.56
2014/2/28	16:16:42	0.63	116.32
2014/2/28	16:21:42	0.03	99.28
2014/2/28	16:26:42	0.02	121.11
2014/2/28	16:31:42	1.71	78.89
2014/2/28	16:36:42	0.32	234.43
2014/2/28	16:41:42	0.24	66.41
2014/2/28	16:46:42	0.28	116.99
2014/2/28	16:51:42	0.08	198.33
2014/2/28	16:56:42	0.02	130.14
2014/2/28	17:01:42	0.08	28.30
2014/2/28	17:06:42	0.08	109.86
2014/2/28	17:11:42	0.18	160.67
2014/2/28	17:16:42	0.09	156.32
2014/2/28	17:21:42	0.12	101.95
2014/2/28	17:26:42	0.02	161.00
2014/2/28	17:31:42	2.00	86.80
2014/2/28	17:36:42	0.02	143.18
2014/2/28	17:41:42	0.02	162.79
2014/2/28	17:46:42	0.02	120.89
2014/2/28	17:51:42	0.02	200.11
2014/2/28	17:56:42	0.05	154.99
2014/2/28	18:01:42	0.40	61.73
2014/2/28	18:06:42	0.38	86.46
2014/2/28	18:11:42	0.02	128.13
2014/2/28	18:16:42	0.02	99.28
2014/2/28	18:21:42	0.03	216.82
2014/2/28	18:26:42	0.95	51.03
2014/2/28	18:31:42	0.20	99.16
2014/2/28	18:36:42	0.50	127.58
2014/2/28	18:41:42	1.47	161.23
2014/2/28	18:46:42	0.49	70.31
2014/2/28	18:51:42	0.02	270.75
2014/2/28	18:56:42	1.27	80.22
2014/2/28	19:01:42	0.02	109.97
2014/2/28	19:06:42	0.02	121.34
2014/2/28	19:11:42	0.83	145.18
2014/2/28	19:16:42	0.46	82.34
2014/2/28	19:21:42	0.50	206.02
2014/2/28	19:26:42	0.21	212.81
2014/2/28	19:31:42	0.02	49.58



Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/28	19:36:42	0.03	126.57
2014/2/28	19:41:42	0.02	220.06
2014/2/28	19:46:42	0.02	44.23
2014/2/28	19:51:42	0.02	70.86
2014/2/28	19:56:42	0.02	107.52
2014/2/28	20:01:42	0.41	125.24
2014/2/28	20:06:42	0.02	97.27
2014/2/28	20:11:42	0.31	191.75
2014/2/28	20:16:42	1.32	134.37
2014/2/28	20:21:42	0.02	20.28
2014/2/28	20:26:42	0.02	102.62
2014/2/28	20:31:42	0.02	36.88
2014/2/28	20:36:42	0.02	77.66
2014/2/28	20:41:42	0.02	62.06
2014/2/28	20:46:42	0.02	101.62
2014/2/28	20:51:42	0.02	258.05
2014/2/28	20:56:42	0.60	100.06
2014/2/28	21:01:42	0.02	46.35
2014/2/28	21:06:42	0.02	153.20
2014/2/28	21:11:42	0.02	125.24
2014/2/28	21:16:42	0.02	65.74
2014/2/28	21:21:42	0.18	130.14
2014/2/28	21:26:42	0.03	58.05
2014/2/28	21:31:42	0.05	230.64
2014/2/28	21:36:42	0.02	22.28
2014/2/28	21:41:42	0.02	210.81
2014/2/28	21:46:42	0.02	96.38
2014/2/28	21:51:42	1.10	108.86
2014/2/28	21:56:42	0.02	177.38
2014/2/28	22:01:42	0.02	96.38
2014/2/28	22:06:42	0.02	198.44
2014/2/28	22:11:42	0.03	155.65
2014/2/28	22:16:42	0.20	167.02
2014/2/28	22:21:42	0.02	134.15
2014/2/28	22:26:42	0.29	186.18
2014/2/28	22:31:42	0.20	127.35
2014/2/28	22:36:42	0.24	194.65
2014/2/28	22:41:42	0.02	220.17
2014/2/28	22:46:42	0.43	127.13
2014/2/28	22:51:42	0.73	228.19
2014/2/28	22:56:42	0.03	84.90
2014/2/28	23:01:42	0.50	179.16
2014/2/28	23:06:42	0.02	54.15

Appendix H Meteorological Data for Impact Monitoring in the reporting period

<b>Date</b>	<b>Time (24hrs)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degree)</b>
2014/2/28	23:11:42	0.92	191.09
2014/2/28	23:16:42	0.11	202.79
2014/2/28	23:21:42	0.44	147.41
2014/2/28	23:26:42	1.09	153.20
2014/2/28	23:31:42	0.02	127.24
2014/2/28	23:36:42	0.28	100.61
2014/2/28	23:41:42	0.02	78.66
2014/2/28	23:46:42	0.67	122.23
2014/2/28	23:51:42	0.14	156.66
2014/2/28	23:56:42	2.02	127.47

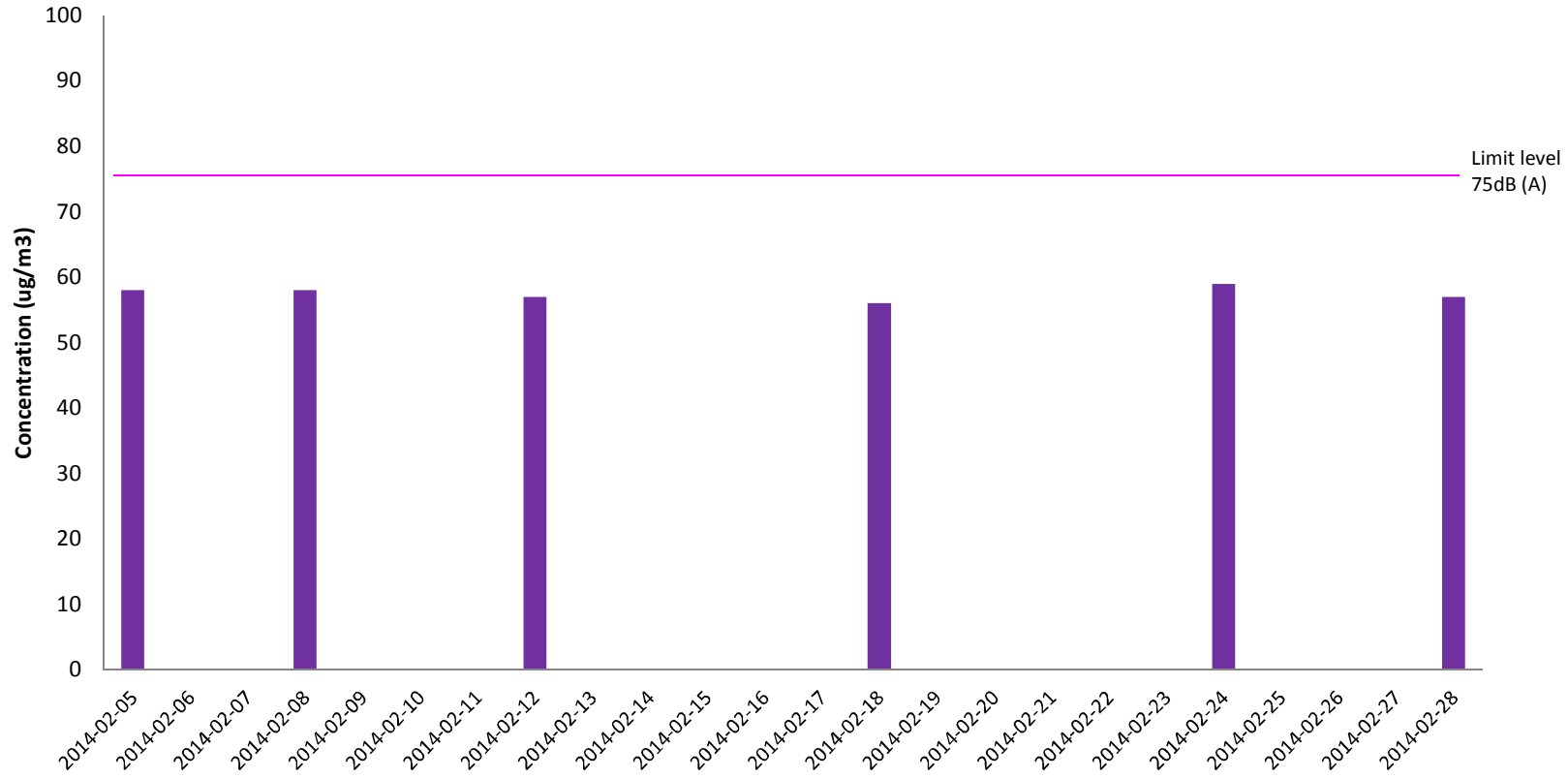
Appendix I

# Impact Noise Monitoring Results and Graphical Presentation

Appendix II Noise Monitoring Results

Project	Works	Date (yyyy-mm-dd)	Station	Weather Condition	Time (hh:mm, 24hour)	Noise Level for 30-min, dB(A)			Limit Level dB(A)	Temp (° C)	Wind Speed (m/s)	Noise Meter Model/ID	Calibrator Model/ID
						Leq	L10	L90					
TMCLKL	HY/2012/07	2014-02-05	NSR1	Cloudy	10:23	58	62	51	75	18	0.5	RION NL31 (S/N 00410224)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2014-02-08	NSR1	Cloudy	10:19	58	61	53	75	17	0.3	RION NL31 (S/N 00410224)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2014-02-12	NSR1	Cloudy	10:18	57	60	54	75	10	0.2	RION NL31 (S/N 00410224)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2014-02-18	NSR1	Cloudy	9:50	56	58	53	75	18	0.3	RION NL31 (S/N 00410224)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2014-02-24	NSR1	Sunny	9:45	59	62	54	75	17	0.3	RION NL31 (S/N 00410224)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2014-02-28	NSR1	Cloudy	9:48	57	60	53	75	17	0.4	RION NL31 (S/N 00410224)	RION NC73 (S/N 10997142)
						Min.	56						
						Max.	59						
						Average	58						

### Noise Monitoring Results at NSR 1 ( $L_{eq, 30min}$ )



Appendix J

## Impact Water Quality Monitoring Results and Graphical Presentation

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Surface	1	1	1	14:50	16.5	7.4	27.1	6.94	3.05	3.0	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Surface	1	1	2	14:50	16.5	7.5	27.0	6.96	2.94	3.5	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Middle	5.5	2	1	14:50	16.6	7.7	27.1	6.80	4.27	4.1	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Middle	5.5	2	2	14:50	16.7	7.7	27.2	6.83	4.21	3.8	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Bottom	10	3	1	14:50	17.1	7.8	27.3	7.05	3.61	3.5	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Bottom	10	3	2	14:50	17.2	7.9	27.4	7.09	3.58	4.1	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	SR4a	Surface	1	1	1	15:23	16.6	7.2	27.1	7.06	1.96	2.4	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	SR4a	Surface	1	1	2	15:23	16.6	7.2	27.0	7.10	1.97	2.2	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	SR4a	Middle		2	1	15:23							2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	SR4a	Middle		2	2	15:23							2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	SR4a	Bottom	4.9	3	1	15:23	16.8	7.3	27.3	7.23	2.84	2.4	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	SR4a	Bottom	4.9	3	2	15:23	16.9	7.4	27.3	7.27	2.87	2.8	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	SR4	Surface	1	1	1	15:53	16.5	7.3	27.0	7.18	2.01	2.3	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	SR4	Surface	1	1	2	15:53	16.4	7.3	27.1	7.09	1.96	2.7	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	SR4	Middle		2	1	15:53							2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	SR4	Middle		2	2	15:53							2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	SR4	Bottom	4.9	3	1	15:53	16.9	7.4	27.2	7.08	1.84	3.0	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	SR4	Bottom	4.9	3	2	15:53	17	7.5	27.3	7.01	1.89	2.9	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	IS8	Surface	1	1	1	16:24	16.6	7.3	27.0	6.99	1.77	2.7	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	IS8	Surface	1	1	2	16:24	16.7	7.2	27.1	7.05	1.74	3.4	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	IS8	Middle		2	1	16:24							2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	IS8	Middle		2	2	16:24							2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	IS8	Bottom	4.9	3	1	16:24	16.9	7.3	27.3	7.15	2.20	2.8	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	IS8	Bottom	4.9	3	2	16:24	17.1	7.4	27.3	7.10	2.27	3.9	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	1	16:53	16.6	7.1	27.1	6.86	3.05	2.2	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	2	16:53	16.5	7.1	27.2	6.89	3.09	2.8	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Middle	4.3	2	1	16:53	16.6	7.2	27.3	7.06	4.89	4.3	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Middle	4.3	2	2	16:53	16.7	7.3	27.4	7.09	4.97	3.7	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Bottom	7.6	3	1	16:53	17	7.3	27.4	7.13	4.54	4.0	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Bottom	7.6	3	2	16:53	17.1	7.3	27.5	7.10	4.50	3.7	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Surface	1	1	1	17:31	16.6	7.2	27.1	7.29	1.84	3.5	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Surface	1	1	2	17:31	16.5	7.3	27.0	7.34	1.86	5.0	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Middle		2	1	17:31							2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Middle		2	2	17:31							2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Bottom	4.8	3	1	17:31	16.9	7.4	27.2	7.14	1.94	5.7	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Bottom	4.8	3	2	17:31	17	7.4	27.3	7.10	1.97	4.9	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	1	18:00	16.7	7.1	27.0	6.73	1.64	2.9	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	2	18:00	16.8	7.1	27.1	6.77	1.73	3.2	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Middle	5.1	2	1	18:00	16.9	7.3	27.2	6.94	3.43	3.3	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Middle	5.1	2	2	18:00	17	7.3	27.3	6.97	3.46	3.4	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Bottom	9.2	3	1	18:00	17.1	7.5	27.4	7.05	4.23	2.6	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Bottom	9.2	3	2	18:00	17.2	7.5	27.5	7.01	4.27	2.4	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	1	11:50	17	7.2	27.1	6.85	1.86	2.7	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	2	11:50	17.1	7.3	27.2	6.82	2.04	4.3	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Middle	5	2	1	11:50	17.2	7.3	27.2	6.77	3.79	3.4	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Middle	5	2	2	11:50	17.3	7.4	27.3	6.76	3.83	3.9	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Bottom	8.9	3	1	11:50	17.3	7.5	27.4	6.93	4.50	4.1	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Bottom	8.9	3	2	11:50	17.4	7.6	27.4	6.96	4.45	3.5	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	SR4a	Surface	1	1	1	9:15	16.9	7.3	27.2	6.94	2.00	2.9	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	SR4a	Surface	1	1	2	9:15	17	7.4	27.3	6.96	2.15	3.3	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	SR4a	Middle		2	1	9:15							2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	SR4a	Middle		2	2	9:15							2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	SR4a	Bottom	4.8	3	1	9:15	17.1	7.5	27.4	7.05	3.22	3.8	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	SR4a	Bottom	4.8	3	2	9:15	17.2	7.5	27.5	7.07	3.29	5.3	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	SR4	Surface	1	1	1	9:45	16.8	7.4	27.2	7.02	2.14	2.9	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	SR4	Surface	1	1	2	9:45	16.9	7.4	27.3	6.98	2.20	2.7	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	SR4	Middle		2	1	9:45							2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	SR4	Middle		2	2	9:45							2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	SR4	Bottom	4.7	3	1	9:45	16.9	7.5	27.4	7.15	1.96	3.2	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	SR4	Bottom	4.7	3	2	9:45	17	7.6	27.5	7.19	2.04	2.9	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	IS8	Surface	1	1	1	10:14	16.9	7.3	27.1	6.85	1.99	2.7	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	IS8	Surface	1	1	2	10:14	17	7.3	27.2	6.89	2.09	2.7	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	IS8	Middle		2	1	10:14							2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	IS8	Middle		2	2	10:14							2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	IS8	Bottom	4.8	3	1	10:14	17	7.4	27.3	6.94	2.59	2.6	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	IS8	Bottom	4.8	3	2	10:14	17.1	7.4	27.4	6.97	2.54	2.6	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	1	10:35	16.9	7.2	27.1	6.74	3.28	3.0	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	2	10:35	17	7.3	27.2	6.77	3.37	2.2	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Middle	4.2	2	1	10:35	17.1	7.4	27.4	6.95	5.76	3.6	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Middle	4.2	2	2	10:35	17.2	7.4	27.3	6.97	5.81	4.4	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Bottom	7.4	3	1	10:35	17.3	7.5	27.5	6.80	4.69	3.8	2014-02-12
TM-CLK Southern	HY/2012/07	2014-02-04	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Bottom	7.4	3									

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Surface	1	1	1	9:54	16.7	7.6	27.2	6.95	2.86	3.6	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Surface	1	1	2	9:54	16.8	7.6	27.1	6.92	2.98	2.9	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Middle	5.6	2	1	9:54	16.9	7.9	27.4	6.86	2.12	3.5	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Middle	5.6	2	2	9:54	17.1	7.9	27.3	6.83	2.28	2.6	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Bottom	10.2	3	1	9:54	17.3	8.0	27.5	7.04	2.23	3.2	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Bottom	10.2	3	2	9:54	17.2	8.0	27.5	7.06	2.37	4.0	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	SR4a	Surface	1	1	1	10:29	16.8	7.4	27.1	7.03	3.61	2.1	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	SR4a	Surface	1	1	2	10:29	16.9	7.4	27.2	7.05	3.77	2.1	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	SR4a	Middle		2	1	10:29							2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	SR4a	Middle		2	2	10:29							2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	SR4a	Bottom	4.6	3	1	10:29	17	7.6	27.3	7.14	2.99	3.2	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	SR4a	Bottom	4.6	3	2	10:29	17.1	7.6	27.4	7.16	3.05	3.7	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	SR4	Surface	1	1	1	11:03	16.7	7.5	27.2	7.11	2.12	3.2	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	SR4	Surface	1	1	2	11:03	16.8	7.5	27.1	7.07	2.17	3.3	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	SR4	Middle		2	1	11:03							2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	SR4	Middle		2	2	11:03							2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	SR4	Bottom	4.8	3	1	11:03	17	7.6	27.4	7.24	3.80	2.5	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	SR4	Bottom	4.8	3	2	11:03	16.9	7.7	27.3	7.28	3.95	3.2	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	IS8	Surface	1	1	1	11:37	16.8	7.4	27.0	6.94	4.57	5.2	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	IS8	Surface	1	1	2	11:37	16.9	7.4	27.1	6.98	4.48	5.5	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	IS8	Middle		2	1	11:37							2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	IS8	Middle		2	2	11:37							2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	IS8	Bottom	4.6	3	1	11:37	17.1	7.5	27.2	7.03	5.89	5.1	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	IS8	Bottom	4.6	3	2	11:37	17	7.5	27.3	7.06	5.74	6.5	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	1	12:13	16.9	7.3	27.1	6.83	2.39	2.7	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	2	12:13	16.8	7.3	27.2	6.86	2.44	2.8	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Middle	4.6	2	1	12:13	17	7.5	27.4	7.04	3.03	2.6	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Middle	4.6	2	2	12:13	17.1	7.5	27.3	7.05	2.99	3.3	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Bottom	8.2	3	1	12:13	17.3	7.5	27.4	6.89	2.49	3.2	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Bottom	8.2	3	2	12:13	17.2	7.6	27.5	6.92	2.53	3.1	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Surface	1	1	1	12:47	16.8	7.5	27.1	7.27	3.67	2.6	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Surface	1	1	2	12:47	16.9	7.5	27.1	7.28	3.71	2.7	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Middle		2	1	12:47							2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Middle		2	2	12:47							2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Bottom	4.2	3	1	12:47	17	7.8	27.3	7.04	2.74	3.7	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Bottom	4.2	3	2	12:47	17.1	7.8	27.2	7.08	2.85	3.3	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	1	13:29	16.9	7.3	27.2	6.94	1.75	3.7	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	2	13:29	17	7.4	27.1	6.91	1.88	2.8	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Middle	5.2	2	1	13:29	17.1	7.4	27.4	6.86	3.90	3.3	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Middle	5.2	2	2	13:29	17.2	7.5	27.3	6.85	4.05	3.3	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Bottom	9.4	3	1	13:29	17.3	7.6	27.4	7.02	2.44	3.9	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Bottom	9.4	3	2	13:29	17.3	7.6	27.5	7.05	2.39	2.6	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	1	16:44	16.9	7.4	27.2	6.88	1.84	3.7	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	2	16:44	16.8	7.5	27.2	6.85	1.97	3.5	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Middle	5.1	2	1	16:44	16.9	7.5	27.3	6.80	3.99	3.4	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Middle	5.1	2	2	16:44	17	7.6	27.4	6.79	4.14	3.0	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Bottom	9.2	3	1	16:44	17.1	7.7	27.5	6.96	2.53	2.8	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Bottom	9.2	3	2	16:44	17.2	7.7	27.4	6.99	2.48	2.9	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	SR4a	Surface	1	1	1	19:24	16.9	7.5	27.2	6.97	3.70	2.6	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	SR4a	Surface	1	1	2	19:24	17	7.5	27.1	6.99	3.86	2.6	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	SR4a	Middle		2	1	19:24							2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	SR4a	Middle		2	2	19:24							2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	SR4a	Bottom	4.2	3	1	19:24	17.2	7.7	27.4	7.08	3.08	2.0	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	SR4a	Bottom	4.2	3	2	19:24	17.1	7.7	27.4	7.10	3.14	2.7	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	SR4	Surface	1	1	1	18:54	16.8	7.6	27.3	7.05	2.21	3.6	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	SR4	Surface	1	1	2	18:54	16.9	7.6	27.2	7.01	2.26	2.9	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	SR4	Middle		2	1	18:54							2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	SR4	Middle		2	2	18:54							2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	SR4	Bottom	4.6	3	1	18:54	17	7.7	27.3	7.18	3.89	4.3	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	SR4	Bottom	4.6	3	2	18:54	16.9	7.7	27.4	7.22	4.04	3.6	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	IS8	Surface	1	1	1	18:24	16.8	7.5	27.2	6.88	4.66	2.8	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	IS8	Surface	1	1	2	18:24	16.7	7.5	27.1	6.92	4.57	2.7	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	IS8	Middle		2	1	18:24							2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	IS8	Middle		2	2	18:24							2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	IS8	Bottom	4	3	1	18:24	17	7.6	27.4	6.97	5.98	3.5	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	IS8	Bottom	4	3	2	18:24	16.9	7.6	27.3	7.00	5.87	2.0	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	1	17:54	16.8	7.4	27.2	6.77	2.38	2.9	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	2	17:54	16.9	7.4	27.3	6.80	2.53	2.3	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Middle	4.4	2	1	17:54	16.9	7.6	27.3	6.98	3.12	3.9	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Middle	4.4	2	2	17:54	17	7.6	27.4	6.99	3.08	3.0	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Bottom	7.8	3	1	17:54	17.1	7.6	27.5	6.80	2.58	4.4	2014-02-17
TM-CLK Southern	HY/2012/07	2014-02-06	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Bottom	7.8										



Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Surface	1	1	1	11:26	16.4	7.5	27.1	6.89	1.69	3.1	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Surface	1	1	2	11:26	16.3	7.5	27.2	6.91	1.74	3.2	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Middle	5.7	2	1	11:26	16.5	7.8	27.3	6.75	2.06	3.5	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Middle	5.7	2	2	11:26	16.6	7.8	27.4	6.78	2.17	3.3	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Bottom	10.4	3	1	11:26	16.8	7.9	27.5	7.00	1.75	2.9	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Bottom	10.4	3	2	11:26	16.9	7.9	27.4	7.04	1.88	2.9	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	SR4a	Surface	1	1	1	12:01	16.4	7.3	27.1	7.01	1.59	3.1	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	SR4a	Surface	1	1	2	12:01	16.5	7.2	27.1	7.05	2.07	3.0	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	SR4a	Middle		2	1	12:01							2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	SR4a	Middle		2	2	12:01							2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	SR4a	Bottom	4.6	3	1	12:01	17	7.4	27.3	7.18	1.31	3.7	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	SR4a	Bottom	4.6	3	2	12:01	16.9	7.4	27.4	7.22	1.46	2.8	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	SR4	Surface	1	1	1	12:31	16.4	7.3	27.1	7.13	1.60	2.1	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	SR4	Surface	1	1	2	12:31	16.3	7.4	27.2	7.04	1.65	2.8	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	SR4	Middle		2	1	12:31							2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	SR4	Middle		2	2	12:31							2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	SR4	Bottom	4.8	3	1	12:31	16.9	7.5	27.3	7.03	2.58	3.3	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	SR4	Bottom	4.8	3	2	12:31	16.8	7.5	27.4	6.96	2.66	3.2	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	IS8	Surface	1	1	1	13:01	16.5	7.3	27.1	6.94	1.58	3.7	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	IS8	Surface	1	1	2	13:01	16.6	7.3	27.1	7.00	1.66	3.6	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	IS8	Middle		2	1	13:01							2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	IS8	Middle		2	2	13:01							2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	IS8	Bottom	4.4	3	1	13:01	16.9	7.4	27.3	7.09	1.86	2.4	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	IS8	Bottom	4.4	3	2	13:01	17	7.4	27.2	7.05	1.92	3.1	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	1	13:31	16.5	7.2	27.2	6.81	1.58	3.7	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	2	13:31	16.4	7.1	27.1	6.83	1.62	3.0	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Middle	4.4	2	1	13:31	16.5	7.3	27.3	7.00	2.16	2.8	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Middle	4.4	2	2	13:31	16.6	7.3	27.2	7.03	2.22	2.3	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Bottom	7.8	3	1	13:31	17	7.4	27.3	7.07	2.04	3.4	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Bottom	7.8	3	2	13:31	16.9	7.4	27.4	7.05	2.11	3.3	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Surface	1	1	1	14:01	16.4	7.3	27.2	7.24	1.97	4.4	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Surface	1	1	2	14:01	16.4	7.3	27.1	7.29	1.85	3.8	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Middle		2	1	14:01							2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Middle		2	2	14:01							2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Bottom	4.2	3	1	14:01	16.8	7.4	27.2	7.09	1.40	3.0	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Bottom	4.2	3	2	14:01	16.9	7.5	27.3	7.05	1.35	2.6	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	1	14:36	16.6	7.1	27.2	6.68	2.12	2.6	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	2	14:36	16.7	7.2	27.3	6.71	2.18	3.2	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Middle	5.2	2	1	14:36	17.8	7.3	27.4	6.88	2.15	2.6	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Middle	5.2	2	2	14:36	16.9	7.4	27.3	6.91	2.22	3.0	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Bottom	9.4	3	1	14:36	17	7.5	27.4	6.99	3.54	3.4	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Bottom	9.4	3	2	14:36	17.1	7.6	27.5	6.95	3.48	2.8	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	1	19:30	16.6	7.2	27.2	6.59	2.19	2.2	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	2	19:30	16.5	7.2	27.1	6.62	2.24	3.2	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Middle	4.9	2	1	19:30	16.7	7.4	27.3	6.79	2.22	2.4	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Middle	4.9	2	2	19:30	16.8	7.4	27.4	6.82	2.28	2.7	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Bottom	8.8	3	1	19:30	16.9	7.6	27.5	6.90	3.60	3.4	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Bottom	8.8	3	2	19:30	17	7.6	27.4	6.86	3.54	3.1	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	SR4a	Surface	1	1	1	21:47	16.4	7.3	27.1	6.95	1.65	3.2	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	SR4a	Surface	1	1	2	21:47	16.3	7.3	27.2	6.94	2.13	3.9	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	SR4a	Middle		2	1	21:47							2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	SR4a	Middle		2	2	21:47							2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	SR4a	Bottom	4.4	3	1	21:47	16.8	7.4	27.4	7.12	1.37	2.8	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	SR4a	Bottom	4.4	3	2	21:47	16.9	7.5	27.3	7.16	1.52	2.6	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	SR4	Surface	1	1	1	21:21	16.3	7.4	27.2	7.04	1.66	2.7	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	SR4	Surface	1	1	2	21:21	16.4	7.4	27.3	6.95	1.71	2.5	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	SR4	Middle		2	1	21:21							2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	SR4	Middle		2	2	21:21							2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	SR4	Bottom	4.6	3	1	21:21	16.7	7.6	27.4	6.94	2.64	3.8	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	SR4	Bottom	4.6	3	2	21:21	16.8	7.6	27.3	6.87	2.72	3.6	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	IS8	Surface	1	1	1	20:53	16.5	7.4	27.1	6.85	1.64	3.1	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	IS8	Surface	1	1	2	20:53	16.4	7.4	27.2	6.91	1.72	3.1	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	IS8	Middle		2	1	20:53							2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	IS8	Middle		2	2	20:53							2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	IS8	Bottom	4.2	3	1	20:53	16.8	7.5	27.3	7.00	1.93	3.2	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	IS8	Bottom	4.2	3	2	20:53	16.9	7.5	27.4	6.95	1.98	2.9	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	1	20:27	16.4	7.2	27.1	6.72	1.64	3.4	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	2	20:27	16.3	7.2	27.0	6.74	1.68	3.5	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Middle	4.2	2	1	20:27	16.6	7.4	27.3	6.91	2.22	3.0	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Middle	4.2	2	2	20:27	16.5	7.4	27.2	6.94	2.28	2.9	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Bottom	7.4	3	1	20:27	16.8	7.4	27.4	6.98	2.10	3.0	2014-02-18
TM-CLK Southern	HY/2012/07	2014-02-08	Mid-Ebb	Cloudy	Great Wave													

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Surface	1	1	1	14:42	16.1	6.4	27.0	7.36	3.97	4.7	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Surface	1	1	2	14:42	16.2	6.4	27.1	7.39	4.01	3.3	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Middle	5.2	2	1	14:42	16.2	6.5	27.2	7.42	3.65	4.6	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Middle	5.2	2	2	14:42	16.2	6.5	27.3	7.44	3.60	4.6	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Bottom	9.3	3	1	14:42	16.3	6.6	27.4	7.36	4.14	2.9	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Bottom	9.3	3	2	14:42	16.3	6.6	27.4	7.33	4.18	2.9	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	SR4a	Surface	1	1	1	15:12	16.1	6.8	27.0	7.44	2.38	3.5	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	SR4a	Surface	1	1	2	15:12	16.2	6.8	27.1	7.47	2.32	2.7	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	SR4a	Middle		2	1	15:12							2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	SR4a	Middle		2	2	15:12							2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	SR4a	Bottom	4.3	3	1	15:12	16.3	6.8	27.2	7.56	2.14	3.1	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	SR4a	Bottom	4.3	3	2	15:12	16.2	6.8	27.2	7.58	2.17	4.0	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	SR4	Surface	1	1	1	15:44	16.2	6.7	27.0	7.14	4.06	2.2	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	SR4	Surface	1	1	2	15:44	16.2	6.7	27.0	7.16	4.00	2.5	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	SR4	Middle		2	1	15:44							2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	SR4	Middle		2	2	15:44							2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	SR4	Bottom	4.4	3	1	15:44	16.3	6.8	27.1	7.25	3.06	2.4	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	SR4	Bottom	4.4	3	2	15:44	16.4	6.9	27.2	7.29	2.98	3.5	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	IS8	Surface	1	1	1	16:14	16.2	6.7	27.0	7.56	2.96	3.1	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	IS8	Surface	1	1	2	16:14	16.1	6.7	27.1	7.58	2.90	2.4	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	IS8	Middle		2	1	16:14							2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	IS8	Middle		2	2	16:14							2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	IS8	Bottom	4.4	3	1	16:14	16.3	6.8	27.2	7.46	3.98	2.5	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	IS8	Bottom	4.4	3	2	16:14	16.3	6.8	27.3	7.50	4.07	2.7	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	1	16:46	16.1	6.8	27.0	7.33	4.16	4.4	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	2	16:46	16.1	6.8	27.1	7.36	4.10	3.0	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Middle	3.9	2	1	16:46	16.3	6.8	27.2	7.46	3.30	3.0	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Middle	3.9	2	2	16:46	16.2	6.7	27.3	7.50	3.38	3.3	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Bottom	6.8	3	1	16:46	16.4	6.7	27.4	7.63	3.10	2.6	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Bottom	6.8	3	2	16:46	16.5	6.7	27.4	7.64	3.13	2.7	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Surface	1	1	1	15:21	16.2	6.7	27.0	7.35	4.96	3.2	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Surface	1	1	2	15:21	16.1	6.7	27.1	7.39	4.90	2.7	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Middle		2	1	15:21							2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Middle		2	2	15:21							2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Bottom	4.2	3	1	15:21	16.2	6.7	27.2	7.44	3.84	2.8	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Bottom	4.2	3	2	15:21	16.2	6.6	27.3	7.46	3.95	2.3	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	1	15:50	16.1	6.7	27.0	7.40	4.26	2.8	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	2	15:50	16	6.7	27.1	7.43	4.25	3.9	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Middle	4.8	2	1	15:50	16.1	6.7	27.2	7.30	3.40	2.6	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Middle	4.8	2	2	15:50	16.2	6.6	27.3	7.33	3.43	2.9	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Bottom	8.5	3	1	15:50	16.3	6.5	27.4	7.38	3.06	4.1	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Bottom	8.5	3	2	15:50	16.3	6.5	27.5	7.40	3.12	3.8	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	1	12:53	16	6.5	27.1	7.24	4.35	4.6	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	2	12:53	16.1	6.5	27.2	7.23	4.27	4.6	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Middle	4.6	2	1	12:53	16.2	6.6	27.2	7.18	3.53	4.4	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Middle	4.6	2	2	12:53	16.1	6.7	27.3	7.16	3.69	3.9	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Bottom	8.2	3	1	12:53	16.3	6.5	27.4	7.37	3.15	3.2	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Bottom	8.2	3	2	12:53	16.3	6.5	27.4	7.36	3.24	2.7	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	SR4a	Surface	1	1	1	10:11	16.1	6.4	27.0	7.30	2.42	3.9	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	SR4a	Surface	1	1	2	10:11	16	6.4	27.1	7.36	2.37	2.3	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	SR4a	Middle		2	1	10:11							2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	SR4a	Middle		2	2	10:11							2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	SR4a	Bottom	3.8	3	1	10:11	16.3	6.4	27.2	7.29	1.84	2.2	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	SR4a	Bottom	3.8	3	2	10:11	16.3	6.5	27.3	7.31	2.01	3.2	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	SR4	Surface	1	1	1	10:44	16	6.5	27.0	7.08	4.13	3.7	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	SR4	Surface	1	1	2	10:44	16.1	6.5	27.1	7.12	4.20	2.8	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	SR4	Middle		2	1	10:44							2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	SR4	Middle		2	2	10:44							2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	SR4	Bottom	3.9	3	1	10:44	16.2	6.5	27.2	7.24	2.67	4.8	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	SR4	Bottom	3.9	3	2	10:44	16.1	6.6	27.3	7.20	2.79	3.5	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	IS8	Surface	1	1	1	11:14	16.1	6.6	27.1	7.45	3.00	4.4	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	IS8	Surface	1	1	2	11:14	16.2	6.6	27.0	7.47	3.14	3.5	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	IS8	Middle		2	1	11:14							2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	IS8	Middle		2	2	11:14							2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	IS8	Bottom	4.1	3	1	11:14	16.2	6.5	27.2	7.40	4.19	4.1	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	IS8	Bottom	4.1	3	2	11:14	16.3	6.5	27.2	7.42	4.12	4.1	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	1	11:46	16	6.4	27.1	7.24	4.35	3.3	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	2	11:46	16.1	6.4	27.2	7.26	4.31	3.6	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Middle	3.8	2	1	11:46	16.2	6.5	27.3	7.38	3.53	4.8	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Middle	3.8	2	2	11:46	16.2	6.5	27.4	7.41	3.59	4.6	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Bottom	6.5	3	1	11:46	16.3	6.6	27.5	7.50	3.34	4.7	2014-02-20
TM-CLK Southern	HY/2012/07	2014-02-11	Mid-Ebb	Cloudy	Great Wave	IS(M												

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	CS(Mf)5	Surface	1	1	1	16:05	16.1	7.1	27.1	7.11	2.31	2.6	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	CS(Mf)5	Surface	1	1	2	16:05	16	7.1	27.3	7.12	2.32	2.6	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	CS(Mf)5	Middle	5.2	2	1	16:05	16.1	7.1	27.2	7.23	2.19	2.6	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	CS(Mf)5	Middle	5.2	2	2	16:05	16.1	7.2	27.2	7.24	2.21	3.4	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	CS(Mf)5	Bottom	9.4	3	1	16:05	16.2	7.2	27.3	7.26	2.34	3.7	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	CS(Mf)5	Bottom	9.4	3	2	16:05	16.2	7.2	27.3	7.27	2.35	5.0	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	SR4a	Surface	1	1	1	16:36	16.1	7.3	27.1	7.20	2.34	3.4	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	SR4a	Surface	1	1	2	16:36	16.1	7.3	27.3	7.23	2.34	2.9	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	SR4a	Middle		2	1	16:36							2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	SR4a	Middle		2	2	16:36							2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	SR4a	Bottom	4.4	3	1	16:36	16.2	7.3	27.2	7.15	2.35	2.5	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	SR4a	Bottom	4.4	3	2	16:36	16.2	7.3	27.4	7.19	2.36	2.9	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	SR4	Surface	1	1	1	17:05	16	7.3	27.1	7.41	2.29	3.2	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	SR4	Surface	1	1	2	17:05	16.1	7.3	27.1	7.40	2.27	3.3	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	SR4	Middle		2	1	17:05							2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	SR4	Middle		2	2	17:05							2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	SR4	Bottom	4.3	3	1	17:05	16.3	7.3	27.2	7.39	2.27	2.8	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	SR4	Bottom	4.3	3	2	17:05	16.1	7.3	27.2	7.37	2.26	2.5	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	IS8	Surface	1	1	1	17:36	16.1	7.4	27.2	7.51	2.71	3.6	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	IS8	Surface	1	1	2	17:36	16.2	7.4	27.3	7.52	2.72	3.9	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	IS8	Middle		2	1	17:36							2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	IS8	Middle		2	2	17:36							2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	IS8	Bottom	4.7	3	1	17:36	16.2	7.4	27.3	7.52	2.74	2.1	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	IS8	Bottom	4.7	3	2	17:36	16.2	7.4	27.3	7.53	2.74	3.2	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	IS(Mf)16	Surface	1	1	1	18:02	16	7.4	27.3	7.41	2.72	4.2	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	IS(Mf)16	Surface	1	1	2	18:02	16.1	7.4	27.2	7.42	2.75	3.9	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	IS(Mf)16	Middle	4	2	1	18:02	16.2	7.4	27.1	7.51	2.78	3.8	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	IS(Mf)16	Middle	4	2	2	18:02	16.1	7.4	27.2	7.52	2.77	3.6	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	IS(Mf)16	Bottom	7	3	1	18:02	16.1	7.4	27.3	7.49	2.79	4.3	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	IS(Mf)16	Bottom	7	3	2	18:02	16.2	7.4	27.1	7.51	2.81	3.1	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	IS(Mf)9	Surface	1	1	1	18:41	16.1	7.5	27.4	7.31	2.23	3.6	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	IS(Mf)9	Surface	1	1	2	18:41	16.2	7.4	27.3	7.32	2.21	3.2	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	IS(Mf)9	Middle		2	1	18:41							2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	IS(Mf)9	Middle		2	2	18:41							2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	IS(Mf)9	Bottom	4.5	3	1	18:41	16.1	7.5	27.2	7.29	2.27	3.6	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	IS(Mf)9	Bottom	4.5	3	2	18:41	16.2	7.5	27.2	7.28	2.26	2.6	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	CS(Mf)3	Surface	1	1	1	19:05	16	7.7	27.4	7.43	2.51	3.7	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	CS(Mf)3	Surface	1	1	2	19:05	16.2	7.7	27.4	7.42	2.53	2.8	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	CS(Mf)3	Middle	5	2	1	19:05	16.2	7.7	27.5	7.47	2.61	4.8	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	CS(Mf)3	Middle	5	2	2	19:05	16.2	7.7	27.4	7.46	2.60	3.6	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	CS(Mf)3	Bottom	9	3	1	19:05	16.3	7.7	27.3	7.49	2.59	3.7	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Flood	Rain	Small Wave	CS(Mf)3	Bottom	9	3	2	19:05	16.3	7.7	27.3	7.47	2.58	4.1	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	CS(Mf)3	Surface	1	1	1	13:50	16	7.6	27.1	7.10	2.78	3.0	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	CS(Mf)3	Surface	1	1	2	13:50	16.1	7.6	27.2	7.16	2.64	4.2	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	CS(Mf)3	Middle	4.8	2	1	13:50	16.2	7.7	27.3	7.24	2.70	2.4	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	CS(Mf)3	Middle	4.8	2	2	13:50	16.2	7.7	27.4	7.27	2.81	3.6	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	CS(Mf)3	Bottom	8.6	3	1	13:50	16.3	7.6	27.5	7.38	2.74	4.1	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	CS(Mf)3	Bottom	8.6	3	2	13:50	16.4	7.6	27.5	7.36	2.69	3.2	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	SR4a	Surface	1	1	1	11:11	16	7.2	27.0	7.15	2.95	2.7	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	SR4a	Surface	1	1	2	11:11	16	7.2	27.1	7.19	2.87	2.5	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	SR4a	Middle		2	1	11:11							2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	SR4a	Middle		2	2	11:11							2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	SR4a	Bottom	4	3	1	11:11	16.1	7.4	27.1	7.02	2.63	2.3	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	SR4a	Bottom	4	3	2	11:11	16.2	7.4	27.2	6.99	2.65	2.5	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	SR4	Surface	1	1	1	11:42	16	7.3	27.1	7.35	2.39	4.3	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	SR4	Surface	1	1	2	11:42	16.1	7.3	27.0	7.37	2.27	3.0	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	SR4	Middle		2	1	11:42							2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	SR4	Middle		2	2	11:42							2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	SR4	Bottom	4.3	3	1	11:42	16.2	7.4	27.1	7.28	2.10	3.5	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	SR4	Bottom	4.3	3	2	11:42	16.3	7.4	27.2	7.25	2.16	4.2	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	IS8	Surface	1	1	1	12:13	16	7.4	27.1	7.46	2.91	4.1	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	IS8	Surface	1	1	2	12:13	16.1	7.4	27.2	7.49	2.78	3.4	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	IS8	Middle		2	1	12:13							2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	IS8	Middle		2	2	12:13							2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	IS8	Bottom	4.5	3	1	12:13	16.2	7.4	27.3	7.30	2.85	3.9	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	IS8	Bottom	4.5	3	2	12:13	16.2	7.5	27.4	7.32	2.80	2.7	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	IS(Mf)16	Surface	1	1	1	12:55	16	7.4	27.2	7.20	2.87	4.4	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	IS(Mf)16	Surface	1	1	2	12:55	16	7.4	27.3	7.18	2.85	4.2	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	IS(Mf)16	Middle	3.9	2	1	12:55	16.2	7.3	27.4	7.38	2.68	4.5	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	IS(Mf)16	Middle	3.9	2	2	12:55	16.1	7.2	27.4	7.41	2.72	3.0	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	IS(Mf)16	Bottom	6.7	3	1	12:55	16.3	7.1	27.5	7.54	2.95	3.9	2014-02-24
TM-CLK Southern	HY/2012/07	2014-02-13	Mid-Ebb	Rain	Small Wave	IS(Mf)16	Bottom	6.7	3	2	12:55	16.4	7.1	27.4	7.56	2.99	3.2	2014-02-2

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	CS(Mf)5	Surface	1	1	1	17:19	16.2	6.5	27.3	7.27	5.93	8.5	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	CS(Mf)5	Surface	1	2	2	17:19	16.2	6.5	27.2	7.24	5.98	7.1	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	CS(Mf)5	Middle	5.6	2	1	17:19	16.3	6.5	27.3	7.13	5.67	7.6	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	CS(Mf)5	Middle	5.6	2	2	17:19	16.2	6.5	27.3	7.10	5.62	7.0	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	CS(Mf)5	Bottom	10.2	3	1	17:19	16.3	6.5	27.4	7.08	5.71	7.2	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	CS(Mf)5	Bottom	10.2	3	2	17:19	16.3	6.5	27.4	7.04	5.77	7.8	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	SR4a	Surface	1	1	1	17:54	16.2	6.5	27.3	7.54	5.52	7.5	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	SR4a	Surface	1	1	2	17:54	16.1	6.5	27.3	7.50	5.48	7.6	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	SR4a	Middle		2	1	17:54							2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	SR4a	Middle		2	2	17:54							2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	SR4a	Bottom	4.6	3	1	17:54	16.2	6.5	27.3	7.12	5.24	7.0	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	SR4a	Bottom	4.6	3	2	17:54	16.2	6.6	27.4	7.16	5.30	6.8	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	SR4	Surface	1	1	1	18:24	16.2	6.5	27.2	7.39	6.09	7.3	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	SR4	Surface	1	1	2	18:24	16.2	6.6	27.3	7.42	6.02	7.7	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	SR4	Middle		2	1	18:24							2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	SR4	Middle		2	2	18:24							2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	SR4	Bottom	4.2	3	1	18:24	16.2	6.6	27.3	7.14	5.61	7.0	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	SR4	Bottom	4.2	3	2	18:24	16.1	6.6	27.4	7.18	5.64	7.1	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	IS8	Surface	1	1	1	18:54	16.2	6.6	27.3	7.30	6.12	8.2	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	IS8	Surface	1	1	2	18:54	16.1	6.6	27.3	7.27	6.15	7.2	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	IS8	Middle		2	1	18:54							2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	IS8	Middle		2	2	18:54							2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	IS8	Bottom	4.4	3	1	18:54	16.2	6.6	27.3	7.27	5.11	6.7	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	IS8	Bottom	4.4	3	2	18:54	16.2	6.7	27.3	7.29	5.17	8.1	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	IS(Mf)16	Surface	1	1	1	19:24	16.1	6.7	27.3	7.27	5.65	6.2	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	IS(Mf)16	Surface	1	1	2	19:24	16.1	6.7	27.3	7.29	5.60	5.1	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	IS(Mf)16	Middle	4.8	2	1	19:24	16.2	6.7	27.3	7.15	5.87	5.0	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	IS(Mf)16	Middle	4.8	2	2	19:24	16.2	6.7	27.3	7.11	5.92	7.4	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	IS(Mf)16	Bottom	8.6	3	1	19:24	16.2	6.7	27.4	7.10	5.79	5.7	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	IS(Mf)16	Bottom	8.6	3	2	19:24	16.1	6.7	27.4	7.05	5.74	5.4	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	IS(Mf)9	Surface	1	1	1	19:59	16.1	6.7	27.3	7.38	6.32	6.3	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	IS(Mf)9	Surface	1	1	2	19:59	16	6.7	27.3	7.35	6.38	6.6	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	IS(Mf)9	Middle		2	1	19:59							2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	IS(Mf)9	Middle		2	2	19:59							2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	IS(Mf)9	Bottom	3.8	3	1	19:59	16.2	6.7	27.3	7.26	6.27	7.1	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	IS(Mf)9	Bottom	3.8	3	2	19:59	16.2	6.7	27.3	7.23	6.21	6.4	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	CS(Mf)3	Surface	1	1	1	20:29	16.1	6.7	27.3	7.31	6.04	7.6	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	CS(Mf)3	Surface	1	1	2	20:29	16.1	6.7	27.2	7.34	6.08	7.3	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	CS(Mf)3	Middle	4.6	2	1	20:29	16.1	6.7	27.3	7.34	6.18	8.5	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	CS(Mf)3	Middle	4.6	2	2	20:29	16.2	6.7	27.3	7.29	6.14	8.4	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	CS(Mf)3	Bottom	8.2	3	1	20:29	16.2	6.7	27.4	7.29	5.90	7.9	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Flood	Fine	Small Wave	CS(Mf)3	Bottom	8.2	3	2	20:29	16.2	6.7	27.4	7.26	5.95	7.8	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Surface	1	1	1	11:35	16	6.6	27.2	7.33	5.31	4.7	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Surface	1	1	2	11:35	16.1	6.6	27.1	7.31	5.22	4.6	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Middle	4.4	2	1	11:35	16.3	6.7	27.3	7.26	4.70	6.5	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Middle	4.4	2	2	11:35	16.2	6.8	27.4	7.25	4.62	6.6	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Bottom	7.8	3	1	11:35	16.3	6.6	27.4	7.46	4.31	6.8	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Bottom	7.8	3	2	11:35	16.4	6.6	27.5	7.44	4.39	7.3	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	SR4a	Surface	1	1	1	14:10	16.1	6.5	27.1	7.39	5.44	6.4	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	SR4a	Surface	1	1	2	14:10	16.2	6.5	27.2	7.45	5.39	6.6	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	SR4a	Middle		2	1	14:10							2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	SR4a	Middle		2	2	14:10							2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	SR4a	Bottom	4.2	3	1	14:10	16.3	6.5	27.4	7.38	4.19	6.5	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	SR4a	Bottom	4.2	3	2	14:10	16.2	6.5	27.3	7.40	4.27	8.4	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	SR4	Surface	1	1	1	13:40	16	6.6	27.1	7.17	6.16	8.1	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	SR4	Surface	1	1	2	13:40	16.1	6.6	27.2	7.21	6.23	6.6	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	SR4	Middle		2	1	13:40							2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	SR4	Middle		2	2	13:40							2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	SR4	Bottom	3.6	3	1	13:40	16.3	6.6	27.3	7.31	5.29	7.2	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	SR4	Bottom	3.6	3	2	13:40	16.2	6.7	27.4	7.29	5.43	6.3	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	IS8	Surface	1	1	1	13:10	16.2	6.7	27.1	7.54	5.79	10.2	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	IS8	Surface	1	1	2	13:10	16.1	6.7	27.1	7.55	5.81	9.1	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	IS8	Middle		2	1	13:10							2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	IS8	Middle		2	2	13:10							2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	IS8	Bottom	3.8	3	1	13:10	16.4	6.6	27.2	7.49	4.13	10.3	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	IS8	Bottom	3.8	3	2	13:10	16.3	6.7	27.3	7.53	4.21	9.7	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Surface	1	1	1	12:40	16.1	6.5	27.3	7.33	5.74	10.4	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Surface	1	1	2	12:40	16	6.5	27.2	7.35	5.88	10.1	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Middle	4.4	2	1	12:40	16.1	6.6	27.4	7.47	6.04	9.0	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Middle	4.4	2	2	12:40	16.2	6.6	27.5	7.50	6.11	8.2	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Bottom	7.8	3	1	12:40	16.2	6.7	27.5	7.59	5.37	9.3	2014-02-25
TM-CLK Southern	HY/2012/07	2014-02-15	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Bottom	7.8	3	2	12:40	16.3	6.7	27.				

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Surface	1	1	1	7:17	16.3	6.4	27.3	7.39	7.09	5.5	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Surface	1	1	2	7:17	16.4	6.4	27.2	7.41	6.94	4.4	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Middle	5.3	2	1	7:17	16.4	6.5	27.3	7.52	5.38	5.7	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Middle	5.3	2	2	7:17	16.5	6.5	27.4	7.54	5.44	6.9	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Bottom	9.6	3	1	7:17	16.5	6.6	27.4	7.30	5.18	6.5	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Bottom	9.6	3	2	7:17	16.4	6.6	27.5	7.33	5.21	7.9	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	SR4a	Surface	1	1	1	7:52	16.3	6.5	27.2	7.45	5.38	5.6	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	SR4a	Surface	1	1	2	7:52	16.3	6.6	27.2	7.51	5.43	5.9	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	SR4a	Middle		2	1	7:52							2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	SR4a	Middle		2	2	7:52							2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	SR4a	Bottom	4.2	3	1	7:52	16.4	6.6	27.3	7.44	4.94	5.1	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	SR4a	Bottom	4.2	3	2	7:52	16.3	6.6	27.4	7.46	4.95	4.4	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	SR4	Surface	1	1	1	8:22	16.2	6.6	27.2	7.26	5.81	5.2	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	SR4	Surface	1	1	2	8:22	16.3	6.7	27.3	7.30	5.77	4.6	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	SR4	Middle		2	1	8:22							2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	SR4	Middle		2	2	8:22							2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	SR4	Bottom	3.8	3	1	8:22	16.3	6.7	27.4	7.40	4.98	6.2	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	SR4	Bottom	3.8	3	2	8:22	16.4	6.7	27.5	7.38	5.04	6.3	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	IS8	Surface	1	1	1	8:52	16.2	6.7	27.2	7.60	6.01	6.4	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	IS8	Surface	1	1	2	8:52	16.2	6.7	27.3	7.61	5.97	5.5	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	IS8	Middle		2	1	8:52							2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	IS8	Middle		2	2	8:52							2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	IS8	Bottom	4.2	3	1	8:52	16.3	6.7	27.4	7.55	4.95	6.2	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	IS8	Bottom	4.2	3	2	8:52	16.2	6.7	27.3	7.59	5.09	4.7	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	1	9:22	16.3	6.6	27.3	7.39	5.88	6.0	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	2	9:22	16.2	6.6	27.2	7.41	5.94	5.1	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Middle	4.7	2	1	9:22	16.4	6.6	27.4	7.53	6.09	5.3	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Middle	4.7	2	2	9:22	16.3	6.7	27.4	7.60	6.11	5.8	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Bottom	8.4	3	1	9:22	16.5	6.7	27.4	7.65	5.51	4.0	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Bottom	8.4	3	2	9:22	16.5	6.8	27.5	7.67	5.44	6.0	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Surface	1	1	1	9:54	16.1	6.7	27.2	7.38	5.89	5.7	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Surface	1	1	2	9:54	16.2	6.7	27.1	7.37	5.93	5.5	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Middle		2	1	9:54							2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Middle		2	2	9:54							2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Bottom	3.6	3	1	9:54	16.3	6.6	27.3	7.52	4.97	6.6	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Bottom	3.6	3	2	9:54	16.4	6.6	27.4	7.55	4.99	5.5	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	1	10:29	16.3	6.7	27.3	7.39	6.12	6.4	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	2	10:29	16.3	6.7	27.3	7.37	6.15	6.7	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Middle	4.8	2	1	10:29	16.4	6.8	27.4	7.32	4.74	6.4	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Middle	4.8	2	2	10:29	16.3	6.8	27.3	7.31	4.82	5.8	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Bottom	8.6	3	1	10:29	16.4	6.6	27.4	7.52	5.03	7.6	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Bottom	8.6	3	2	10:29	16.5	6.6	27.5	7.50	5.05	6.0	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	1	13:10	16.4	6.7	27.3	7.30	6.18	6.0	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	2	13:10	16.3	6.7	27.4	7.28	6.21	5.9	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Middle	4.7	2	1	13:10	16.4	6.8	27.5	7.23	4.80	5.5	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Middle	4.7	2	2	13:10	16.5	6.9	27.4	7.22	4.88	4.8	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Bottom	8.4	3	1	13:10	16.5	6.7	27.6	7.43	5.09	6.0	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Bottom	8.4	3	2	13:10	16.6	6.7	27.5	7.41	5.11	6.7	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	SR4a	Surface	1	1	1	15:50	16.4	6.6	27.3	7.36	5.44	5.7	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	SR4a	Surface	1	1	2	15:50	16.3	6.6	27.2	7.42	5.49	4.4	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	SR4a	Middle		2	1	15:50							2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	SR4a	Middle		2	2	15:50							2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	SR4a	Bottom	3.8	3	1	15:50	16.4	6.6	27.4	7.35	5.00	10.1	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	SR4a	Bottom	3.8	3	2	15:50	16.5	6.7	27.5	7.37	5.03	10.8	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	SR4	Surface	1	1	1	15:20	16.3	6.7	27.4	7.17	5.87	6.4	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	SR4	Surface	1	1	2	15:20	16.4	6.7	27.3	7.21	5.83	7.5	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	SR4	Middle		2	1	15:20							2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	SR4	Middle		2	2	15:20							2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	SR4	Bottom	3.4	3	1	15:20	16.5	6.7	27.5	7.31	5.03	7.0	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	SR4	Bottom	3.4	3	2	15:20	16.4	6.8	27.5	7.29	5.10	5.7	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	IS8	Surface	1	1	1	14:50	16.3	6.8	27.3	7.51	6.07	4.6	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	IS8	Surface	1	1	2	14:50	16.2	6.8	27.4	7.52	6.03	5.4	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	IS8	Middle		2	1	14:50							2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	IS8	Middle		2	2	14:50							2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	IS8	Bottom	3.8	3	1	14:50	16.4	6.7	27.6	7.46	5.01	5.8	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	IS8	Bottom	3.8	3	2	14:50	16.3	6.8	27.5	7.50	5.15	6.3	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	1	14:20	16.4	6.6	27.3	7.30	5.92	4.8	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	2	14:20	16.3	6.6	27.4	7.32	5.99	4.3	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Middle	4.6	2	1	14:20	16.5	6.7	27.5	7.44	6.14	4.7	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Middle	4.6	2	2	14:20	16.3	6.7	27.4	7.51	6.17	4.4	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Bottom	8.2	3	1	14:20	16.6	6.8	27.5	7.56	5.57	5.1	2014-02-27
TM-CLK Southern	HY/2012/07	2014-02-18	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Bottom	8.2	3</									

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Surface	1	1	1	8:14	16.4	7.7	27.6	7.30	6.46	6.6	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Surface	1	1	2	8:14	16.4	7.7	27.6	7.39	6.41	4.9	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Middle	5	2	1	8:14	16.5	7.7	27.6	7.68	6.29	5.7	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Middle	5	2	2	8:14	16.5	7.7	27.6	7.62	6.23	6.3	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Bottom	9	3	1	8:14	16.5	7.8	27.8	7.22	6.17	5.5	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Bottom	9	3	2	8:14	16.5	7.8	27.7	7.28	6.13	5.8	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	SR4a	Surface	1	1	1	8:44	16.4	7.8	27.6	7.13	6.55	4.3	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	SR4a	Surface	1	1	2	8:44	16.4	7.8	27.7	7.17	6.57	4.1	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	SR4a	Middle		2	1	8:44							2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	SR4a	Middle		2	2	8:44							2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	SR4a	Bottom	4.8	3	1	8:44	16.5	7.7	27.7	7.01	6.43	5.1	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	SR4a	Bottom	4.8	3	2	8:44	16.5	7.7	27.7	7.09	6.47	3.6	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	SR4	Surface	1	1	1	9:14	16.6	7.7	27.5	7.43	6.54	3.7	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	SR4	Surface	1	1	2	9:14	16.6	7.8	27.5	7.41	6.50	5.9	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	SR4	Middle		2	1	9:14							2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	SR4	Middle		2	2	9:14							2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	SR4	Bottom	4.4	3	1	9:14	16.3	7.7	27.6	7.39	6.39	4.8	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	SR4	Bottom	4.4	3	2	9:14	16.4	7.7	27.7	7.31	6.31	5.9	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	IS8	Surface	1	1	1	9:44	16.5	7.7	27.5	7.63	6.27	5.2	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	IS8	Surface	1	1	2	9:44	16.6	7.7	27.5	7.67	6.23	4.2	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	IS8	Middle		2	1	9:44							2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	IS8	Middle		2	2	9:44							2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	IS8	Bottom	4.6	3	1	9:44	16.4	7.8	27.6	7.20	6.72	6.5	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	IS8	Bottom	4.6	3	2	9:44	16.4	7.8	27.6	7.24	6.78	5.6	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	1	10:14	16.6	7.8	27.6	7.50	6.10	4.8	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	2	10:14	16.6	7.8	27.6	7.54	6.18	4.9	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Middle	3.4	2	1	10:14	16.5	7.8	27.6	7.31	6.49	6.0	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Middle	3.4	2	2	10:14	16.5	7.9	27.6	7.33	6.41	4.6	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Bottom	5.8	3	1	10:14	16.5	7.9	27.7	7.15	6.88	5.0	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Bottom	5.8	3	2	10:14	16.4	7.9	27.7	7.16	6.82	6.3	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Surface	1	1	1	10:43	16.4	7.8	27.6	7.47	6.30	3.4	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Surface	1	1	2	10:43	16.4	7.8	27.7	7.49	6.38	4.3	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Middle		2	1	10:43							2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Middle		2	2	10:43							2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Bottom	4.2	3	1	10:43	16.5	7.8	27.7	7.28	6.49	7.2	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Bottom	4.2	3	2	10:43	16.5	7.8	27.7	7.24	6.41	5.1	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	1	11:24	16.5	7.8	27.7	7.38	6.55	5.1	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	2	11:24	16.5	7.8	27.7	7.30	6.51	4.3	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Middle	4.5	2	1	11:24	16.6	7.8	27.7	7.20	6.72	5.6	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Middle	4.5	2	2	11:24	16.6	7.8	27.8	7.24	6.73	4.8	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Bottom	8	3	1	11:24	16.6	7.8	27.8	7.18	6.66	6.7	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Bottom	8	3	2	11:24	16.6	7.8	27.8	7.16	6.68	5.6	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	1	14:27	16.7	7.8	27.5	7.66	6.50	3.6	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	2	14:27	16.7	7.9	27.5	7.62	6.54	4.9	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Middle	4.1	2	1	14:27	16.6	7.9	27.5	7.56	6.76	4.1	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Middle	4.1	2	2	14:27	16.6	7.9	27.6	7.58	6.79	5.9	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Bottom	7.2	3	1	14:27	16.5	7.9	27.5	7.28	6.41	5.9	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Bottom	7.2	3	2	14:27	16.5	8.0	27.5	7.29	6.43	5.7	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	SR4a	Surface	1	1	1	16:56	16.8	7.7	27.3	7.63	4.82	3.4	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	SR4a	Surface	1	1	2	16:56	16.8	7.8	27.3	7.65	4.88	5.4	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	SR4a	Middle		2	1	16:56							2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	SR4a	Middle		2	2	16:56							2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	SR4a	Bottom	3.6	3	1	16:56	16.9	7.8	27.4	7.68	4.85	4.2	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	SR4a	Bottom	3.6	3	2	16:56	16.9	7.8	27.4	7.61	4.80	5.6	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	SR4	Surface	1	1	1	16:27	16.6	7.8	27.4	7.52	4.17	5.4	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	SR4	Surface	1	1	2	16:27	16.6	7.7	27.5	7.50	4.12	4.4	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	SR4	Middle		2	1	16:27							2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	SR4	Middle		2	2	16:27							2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	SR4	Bottom	4	3	1	16:27	16.6	7.8	27.5	7.40	4.20	4.6	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	SR4	Bottom	4	3	2	16:27	16.6	7.8	27.5	7.42	4.23	4.4	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	IS8	Surface	1	1	1	15:58	16.6	7.6	27.4	7.36	6.39	4.8	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	IS8	Surface	1	1	2	15:58	16.6	7.7	27.4	7.30	6.32	4.5	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	IS8	Middle		2	1	15:58							2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	IS8	Middle		2	2	15:58							2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	IS8	Bottom	4.2	3	1	15:58	16.5	7.7	27.5	7.28	6.74	4.8	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	IS8	Bottom	4.2	3	2	15:58	16.5	7.7	27.5	7.22	6.76	4.5	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	1	15:27	16.7	7.5	27.4	7.24	6.28	4.1	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	2	15:27	16.6	7.5	27.3	7.21	6.20	5.6	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Middle	3.1	2	1	15:27	16.8	7.7	27.4	7.42	6.51	3.8	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Middle	3.1	2	2	15:27	16.8	7.7	27.4	7.44	6.53	3.6	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Bottom	5.2	3	1	15:27	16.8	7.6	27.5	7.10	6.72	6.1	2014-03-03
TM-CLK Southern	HY/2012/07	2014-02-20	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Bottom	5.2	3	2</								

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Surface	1	1	1	9:27	16.3	7.5	27.4	7.21	1.98	4.6	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Surface	1	1	2	9:27	16.2	7.5	27.3	7.29	1.94	3.5	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Middle	5.2	2	1	9:27	16.3	7.6	27.4	7.59	1.96	4.4	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Middle	5.2	2	2	9:27	16.4	7.6	27.5	7.53	1.97	3.2	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Bottom	9.4	3	1	9:27	16.5	7.6	27.6	7.13	2.05	5.1	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Bottom	9.4	3	2	9:27	16.4	7.6	27.5	7.19	2.11	4.5	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	SR4a	Surface	1	1	1	10:02	16.3	7.6	27.4	7.19	1.91	3.4	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	SR4a	Surface	1	1	2	10:02	16.3	7.6	27.5	7.23	2.01	3.5	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	SR4a	Middle		2	1	10:02							2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	SR4a	Middle		2	2	10:02							2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	SR4a	Bottom	4.6	3	1	10:02	16.4	7.6	27.7	7.07	2.09	5.1	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	SR4a	Bottom	4.6	3	2	10:02	16.5	7.6	27.6	7.15	2.13	4.1	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	SR4	Surface	1	1	1	10:32	16.3	7.6	27.4	7.28	2.05	4	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	SR4	Surface	1	1	2	10:32	16.4	7.6	27.3	7.26	2.07	2.9	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	SR4	Middle		2	1	10:32							2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	SR4	Middle		2	2	10:32							2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	SR4	Bottom	4.2	3	1	10:32	16.5	7.6	27.4	7.24	2.13	2.8	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	SR4	Bottom	4.2	3	2	10:32	16.5	7.6	27.5	7.19	2.15	2.1	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	IS8	Surface	1	1	1	11:02	16.4	7.6	27.3	7.48	1.92	3.8	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	IS8	Surface	1	1	2	11:02	16.4	7.6	27.4	7.52	1.94	5.3	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	IS8	Middle		2	1	11:02							2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	IS8	Middle		2	2	11:02							2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	IS8	Bottom	4.4	3	1	11:02	16.5	7.6	27.5	7.05	2.04	4.8	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	IS8	Bottom	4.4	3	2	11:02	16.6	7.6	27.6	7.09	2.07	3.1	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	1	11:32	16.4	7.6	27.4	7.35	1.90	4	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	2	11:32	16.5	7.7	27.5	7.39	1.87	4.4	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Middle	3.6	2	1	11:32	16.5	7.7	27.6	7.16	2.05	5.2	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Middle	3.6	2	2	11:32	16.6	7.7	27.5	7.18	2.01	4.2	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Bottom	6.2	3	1	11:32	16.6	7.8	27.6	7.08	2.18	3.8	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Bottom	6.2	3	2	11:32	16.5	7.7	27.6	7.10	2.13	3.9	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Surface	1	1	1	12:02	16.5	7.6	27.4	7.32	1.88	4	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Surface	1	1	2	12:02	16.4	7.7	27.5	7.34	1.93	3.8	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Middle		2	1	12:02							2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Middle		2	2	12:02							2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Bottom	4	3	1	12:02	16.5	7.7	27.6	7.13	2.06	2.8	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Bottom	4	3	2	12:02	16.6	7.7	27.5	7.17	2.08	3	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	1	12:37	16.5	7.7	27.4	7.29	1.99	2.9	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	2	12:37	16.5	7.7	27.3	7.21	2.02	2.9	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Middle	4.7	2	1	12:37	16.5	7.7	27.5	7.15	2.14	3.8	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Middle	4.7	2	2	12:37	16.4	7.7	27.4	7.19	2.17	2.5	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Bottom	8.4	3	1	12:37	16.5	7.7	27.5	7.12	2.07	4	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Bottom	8.4	3	2	12:37	16.6	7.7	27.6	7.09	2.10	4.5	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	1	16:22	16.5	7.6	27.5	7.14	2.07	4.4	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	2	16:22	16.5	7.6	27.5	7.13	2.08	2.1	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Middle	4.6	2	1	16:22	16.5	7.6	27.5	7.03	2.21	4.1	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Middle	4.6	2	2	16:22	16.5	7.6	27.5	7.02	2.22	3	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Bottom	8.2	3	1	16:22	16.6	7.6	27.6	6.89	2.25	4	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Bottom	8.2	3	2	16:22	16.5	7.6	27.6	6.91	2.26	4.2	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	SR4a	Surface	1	1	1	18:52	16.3	7.6	27.5	7.19	2.01	4.9	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	SR4a	Surface	1	1	2	18:52	16.3	7.6	27.5	7.16	2.02	3.2	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	SR4a	Middle		2	1	18:52							2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	SR4a	Middle		2	2	18:52							2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	SR4a	Bottom	4.2	3	1	18:52	16.3	7.5	27.5	7.10	1.98	4	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	SR4a	Bottom	4.2	3	2	18:52	16.3	7.5	27.5	7.13	1.99	3.9	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	SR4	Surface	1	1	1	18:22	16.3	7.7	27.5	7.14	2.63	4.7	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	SR4	Surface	1	1	2	18:22	16.3	7.7	27.5	7.15	2.64	5	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	SR4	Middle		2	1	18:22							2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	SR4	Middle		2	2	18:22							2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	SR4	Bottom	4	3	1	18:22	16.3	7.7	27.5	7.09	2.76	3.7	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	SR4	Bottom	4	3	2	18:22	16.4	7.7	27.6	7.06	2.77	3.3	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	IS8	Surface	1	1	1	17:52	16.3	7.7	27.5	7.39	2.03	2.8	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	IS8	Surface	1	1	2	17:52	16.3	7.7	27.5	7.35	2.04	3.5	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	IS8	Middle		2	1	17:52							2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	IS8	Middle		2	2	17:52							2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	IS8	Bottom	4.2	3	1	17:52	16.4	7.7	27.6	7.26	2.31	3.8	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	IS8	Bottom	4.2	3	2	17:52	16.4	7.7	27.6	7.27	2.34	4.2	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	1	17:22	16.4	7.7	27.5	7.27	2.32	3.3	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	2	17:22	16.4	7.7	27.5	7.28	2.33	4	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Middle	3.5	2	1	17:22	16.4	7.7	27.6	7.07	2.07	3.4	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Middle	3.5	2	2	17:22	16.5	7.6	27.6	7.04	2.08	4.2	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Bottom	6	3	1	17:22	16.6	7.7	27.6	6.98	2.55	3.7	2014-03-04
TM-CLK Southern	HY/2012/07	2014-02-22	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Bottom	6	3	2								

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Surface	1	1	1	13:12	16.4	7.6	27.4	7.25	1.80	2.4	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Surface	1	1	2	13:12	16.5	7.7	27.4	7.29	1.87	2.7	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Middle	5.2	2	1	13:12	16.6	7.7	27.5	7.63	1.47	3.1	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Middle	5.2	2	2	13:12	16.5	7.7	27.4	7.57	1.54	2.9	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Bottom	9.4	3	1	13:12	16.6	7.7	27.6	7.17	2.18	5.2	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Bottom	9.4	3	2	13:12	16.7	7.8	27.5	7.23	2.25	5.5	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	SR4a	Surface	1	1	1	13:47	16.6	7.7	27.5	7.23	1.81	4.1	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	SR4a	Surface	1	1	2	13:47	16.5	7.7	27.4	7.27	1.86	5.3	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	SR4a	Middle		2	1	13:47							2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	SR4a	Middle		2	2	13:47							2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	SR4a	Bottom	4.8	3	1	13:47	16.7	7.7	27.5	7.11	2.32	5.1	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	SR4a	Bottom	4.8	3	2	13:47	16.6	7.7	27.6	7.09	2.35	5	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	SR4	Surface	1	1	1	14:17	16.6	7.7	27.4	7.32	1.60	2.6	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	SR4	Surface	1	1	2	14:17	16.7	7.7	27.5	7.30	1.68	3.2	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	SR4	Middle		2	1	14:17							2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	SR4	Middle		2	2	14:17							2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	SR4	Bottom	4.2	3	1	14:17	16.7	7.7	27.5	7.27	1.90	5.4	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	SR4	Bottom	4.2	3	2	14:17	16.8	7.7	27.6	7.23	1.97	5	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	IS8	Surface	1	1	1	14:47	16.6	7.7	27.6	7.52	1.92	3.9	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	IS8	Surface	1	1	2	14:47	16.6	7.7	27.5	7.56	1.88	3.9	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	IS8	Middle		2	1	14:47							2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	IS8	Middle		2	2	14:47							2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	IS8	Bottom	4.6	3	1	14:47	16.6	7.7	27.7	7.09	2.44	3.7	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	IS8	Bottom	4.6	3	2	14:47	16.7	7.8	27.6	7.13	2.38	3.6	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	1	15:17	16.6	7.8	27.4	7.39	1.72	3.5	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	2	15:17	16.5	7.7	27.5	7.43	1.77	4.9	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Middle	3.7	2	1	15:17	16.6	7.8	27.5	7.20	1.83	3.7	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Middle	3.7	2	2	15:17	16.6	7.8	27.6	7.22	1.88	5.2	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Bottom	6.4	3	1	15:17	16.6	7.9	27.6	7.12	2.35	5.6	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Bottom	6.4	3	2	15:17	16.7	7.9	27.7	7.14	2.27	5.4	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Surface	1	1	1	15:47	16.6	7.7	27.5	7.36	1.79	3.6	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Surface	1	1	2	15:47	16.6	7.8	27.6	7.38	1.85	3.8	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Middle		2	1	15:47							2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Middle		2	2	15:47							2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Bottom	3.6	3	1	15:47	16.6	7.8	27.7	7.17	2.02	3.1	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Bottom	3.6	3	2	15:47	16.7	7.8	27.6	7.21	2.07	4.5	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	1	16:22	16.6	7.8	27.6	7.33	1.86	4	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	2	16:22	16.5	7.8	27.5	7.25	1.94	2.9	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Middle	5.1	2	1	16:22	16.6	7.8	27.6	7.19	2.01	3.3	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Middle	5.1	2	2	16:22	16.6	7.8	27.7	7.22	2.05	3	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Bottom	9.2	3	1	16:22	16.7	7.9	27.7	7.16	2.29	3.2	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Bottom	9.2	3	2	16:22	16.6	7.8	27.6	7.13	2.37	2.1	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	1	8:21	16.5	7.7	27.4	7.24	1.95	2.8	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	2	8:21	16.6	7.7	27.5	7.16	2.03	3.4	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Middle	4.8	2	1	8:21	16.7	7.8	27.6	7.10	2.4	2.4	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Middle	4.8	2	2	8:21	16.6	7.7	27.5	7.13	2.14	3.4	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Bottom	8.6	3	1	8:21	16.7	7.8	27.6	7.07	2.38	2.8	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Bottom	8.6	3	2	8:21	16.6	7.8	27.7	7.04	2.46	2.9	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	SR4a	Surface	1	1	1	10:56	16.4	7.7	27.3	7.14	1.90	2.5	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	SR4a	Surface	1	1	2	10:56	16.5	7.7	27.4	7.18	1.95	3.1	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	SR4a	Middle		2	1	10:56							2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	SR4a	Middle		2	2	10:56							2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	SR4a	Bottom	4.2	3	1	10:56	16.6	7.6	27.5	7.02	2.23	2.2	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	SR4a	Bottom	4.2	3	2	10:56	16.6	7.6	27.4	7.10	2.26	3.3	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	SR4	Surface	1	1	1	10:26	16.5	7.6	27.5	7.23	1.69	3.8	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	SR4	Surface	1	1	2	10:26	16.4	7.7	27.5	7.21	1.77	2.4	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	SR4	Middle		2	1	10:26							2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	SR4	Middle		2	2	10:26							2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	SR4	Bottom	3.8	3	1	10:26	16.6	7.7	27.6	7.18	1.99	4.1	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	SR4	Bottom	3.8	3	2	10:26	16.6	7.6	27.7	7.14	2.06	3.6	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	IS8	Surface	1	1	1	9:56	16.5	7.6	27.4	7.43	2.01	3.5	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	IS8	Surface	1	1	2	9:56	16.6	7.6	27.5	7.47	1.97	2.7	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	IS8	Middle		2	1	9:56							2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	IS8	Middle		2	2	9:56							2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	IS8	Bottom	4.2	3	1	9:56	16.7	7.7	27.6	7.00	2.53	3.2	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	IS8	Bottom	4.2	3	2	9:56	16.6	7.7	27.5	7.04	2.47	2.3	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	1	9:26	16.4	7.7	27.4	7.30	1.81	4	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	2	9:26	16.5	7.7	27.3	7.34	1.86	2.8	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Middle	3.5	2	1	9:26	16.6	7.7	27.4	7.11	1.92	3.2	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Middle	3.5	2	2	9:26	16.7	7.8	27.5	7.13	1.97	4.7	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Bottom	6	3	1	9:26	16.7	7.8	27.6	7.03	2.44	3.1	2014-03-06
TM-CLK Southern	HY/2012/07	2014-02-25	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Bottom	6										



Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Surface	1	1	1	15:23	17.5	7.9	26.3	7.96	1.49	3.2	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Surface	1	1	2	15:23	17.5	8.0	26.3	7.88	1.52	2.8	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Middle	5.4	2	1	15:23	17.4	8.0	26.5	7.72	1.74	4.2	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Middle	5.4	2	2	15:23	17.4	7.9	26.4	7.70	1.77	4.3	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Bottom	9.8	3	1	15:23	17.4	7.8	26.5	7.64	1.79	5.5	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Bottom	9.8	3	2	15:23	17.3	7.9	26.5	7.66	1.71	5.1	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	SR4a	Surface	1	1	1	15:52	17.5	7.9	26.4	7.82	1.20	2.7	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	SR4a	Surface	1	1	2	15:52	17.5	7.8	26.4	7.88	1.24	3.6	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	SR4a	Middle		2	1	15:52							2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	SR4a	Middle		2	2	15:52							2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	SR4a	Bottom	4.6	3	1	15:52	17.3	7.7	26.5	7.53	1.59	3.4	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	SR4a	Bottom	4.6	3	2	15:52	17.3	7.8	26.5	7.57	1.58	4.0	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	SR4	Surface	1	1	1	16:22	17.5	7.9	26.3	7.75	1.82	3.2	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	SR4	Surface	1	1	2	16:22	17.5	7.9	26.3	7.77	1.80	3.3	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	SR4	Middle		2	1	16:22							2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	SR4	Middle		2	2	16:22							2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	SR4	Bottom	4.4	3	1	16:22	17.3	7.8	26.5	7.83	1.73	2.8	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	SR4	Bottom	4.4	3	2	16:22	17.4	7.8	26.4	7.81	1.77	3.7	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	IS8	Surface	1	1	1	16:52	17.4	8.0	26.2	7.94	1.30	4.3	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	IS8	Surface	1	1	2	16:52	17.4	8.0	26.3	7.96	1.38	4.7	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	IS8	Middle		2	1	16:52							2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	IS8	Middle		2	2	16:52							2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	IS8	Bottom	4.8	3	1	16:52	17.3	7.8	26.5	7.72	1.45	3.6	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	IS8	Bottom	4.8	3	2	16:52	17.3	7.9	26.5	7.73	1.49	2.8	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	1	17:22	17.4	7.7	26.3	7.68	1.49	3.1	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	2	17:22	17.5	7.8	26.4	7.72	1.41	5.3	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Middle	4.4	2	1	17:22	17.4	7.8	26.4	7.56	1.80	3.7	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Middle	4.4	2	2	17:22	17.4	7.9	26.4	7.50	1.78	3.7	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Bottom	7.8	3	1	17:22	17.3	7.8	26.4	7.43	1.63	4.2	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Bottom	7.8	3	2	17:22	17.3	7.8	26.4	7.47	1.62	2.6	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Surface	1	1	1	17:52	17.4	7.9	26.3	7.73	1.63	4.5	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Surface	1	1	2	17:52	17.4	7.9	26.3	7.77	1.60	4.3	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Middle		2	1	17:52							2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Middle		2	2	17:52							2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Bottom	4.6	3	1	17:52	17.3	7.8	26.5	7.58	1.82	4.1	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Bottom	4.6	3	2	17:52	17.3	7.8	26.4	7.60	1.80	5.1	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	1	18:27	17.4	7.9	26.4	7.89	1.55	2.9	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	2	18:27	17.3	7.9	26.4	7.90	1.57	2.9	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Middle	6.4	2	1	18:27	17.3	8.0	26.5	7.58	1.72	3.4	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Middle	6.4	2	2	18:27	17.3	8.0	26.5	7.60	1.74	3.8	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Bottom	11.8	3	1	18:27	17.3	7.8	26.4	7.73	1.93	3.2	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Bottom	11.8	3	2	18:27	17.2	7.8	26.3	7.74	1.97	5.4	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	1	10:08	17.4	7.8	26.3	7.76	1.42	2.0	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	2	10:08	17.4	7.8	26.3	7.78	1.44	4.1	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Middle	6	2	1	10:08	17.3	7.7	26.4	7.53	1.52	3.9	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Middle	6	2	2	10:08	17.4	7.7	26.4	7.57	1.58	3.0	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Bottom	11	3	1	10:08	17.3	7.8	26.4	7.61	1.40	3.7	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Bottom	11	3	2	10:08	17.3	7.8	26.5	7.63	1.38	3.7	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	SR4a	Surface	1	1	1	12:32	17.4	8.0	26.3	7.92	1.40	3.3	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	SR4a	Surface	1	1	2	12:32	17.3	8.0	26.3	7.90	1.44	2.7	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	SR4a	Middle		2	1	12:32							2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	SR4a	Middle		2	2	12:32							2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	SR4a	Bottom	4.4	3	1	12:32	17.2	7.8	26.5	7.68	1.90	2.3	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	SR4a	Bottom	4.4	3	2	12:32	17.3	7.8	26.6	7.72	1.88	4.1	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	SR4	Surface	1	1	1	12:00	17.3	7.8	26.4	7.73	1.39	2.6	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	SR4	Surface	1	1	2	12:00	17.3	7.9	26.4	7.71	1.31	3.9	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	SR4	Middle		2	1	12:00							2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	SR4	Middle		2	2	12:00							2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	SR4	Bottom	4	3	1	12:00	17.2	7.9	26.6	7.36	1.62	4.4	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	SR4	Bottom	4	3	2	12:00	17.3	7.9	26.6	7.34	1.60	4.5	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	IS8	Surface	1	1	1	11:28	17.3	7.9	26.3	7.46	1.49	3.2	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	IS8	Surface	1	1	2	11:28	17.4	7.9	26.3	7.50	1.48	4.4	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	IS8	Middle		2	1	11:28							2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	IS8	Middle		2	2	11:28							2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	IS8	Bottom	4.6	3	1	11:28	17.3	7.9	26.5	7.50	1.73	2.8	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	IS8	Bottom	4.6	3	2	11:28	17.3	7.9	26.5	7.54	1.74	4.0	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	1	11:00	17.4	7.8	26.4	7.69	1.56	3.4	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	2	11:00	17.4	7.8	26.4	7.71	1.57	3.7	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Middle	4.1	2	1	11:00	17.3	7.9	26.5	7.56	1.40	2.6	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Middle	4.1	2	2	11:00	17.3	7.9	26.5	7.64	1.42	2.7	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Bottom	7.2	3	1	11:00	17.2	7.7	26.5	7.62	1.60	2.5	2014-03-08
TM-CLK Southern	HY/2012/07	2014-02-27	Mid-Ebb	Cloudy	Small Wave													

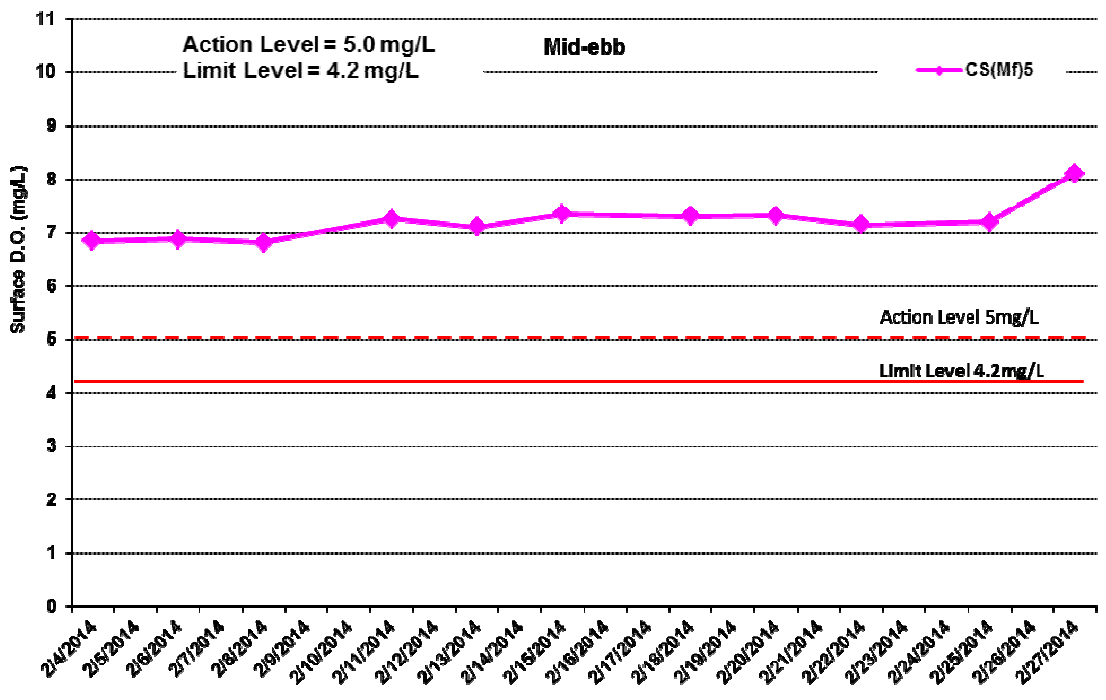
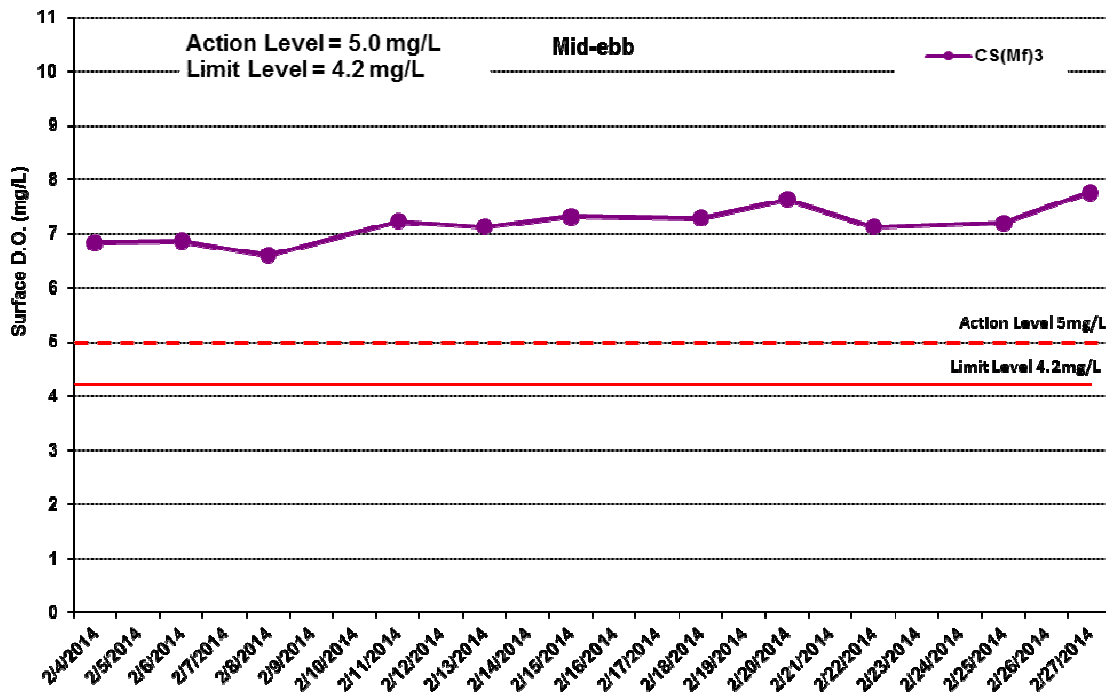


Figure J1 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 to 28 February 2014 at CS(Mf)3 and CS(Mf)5.

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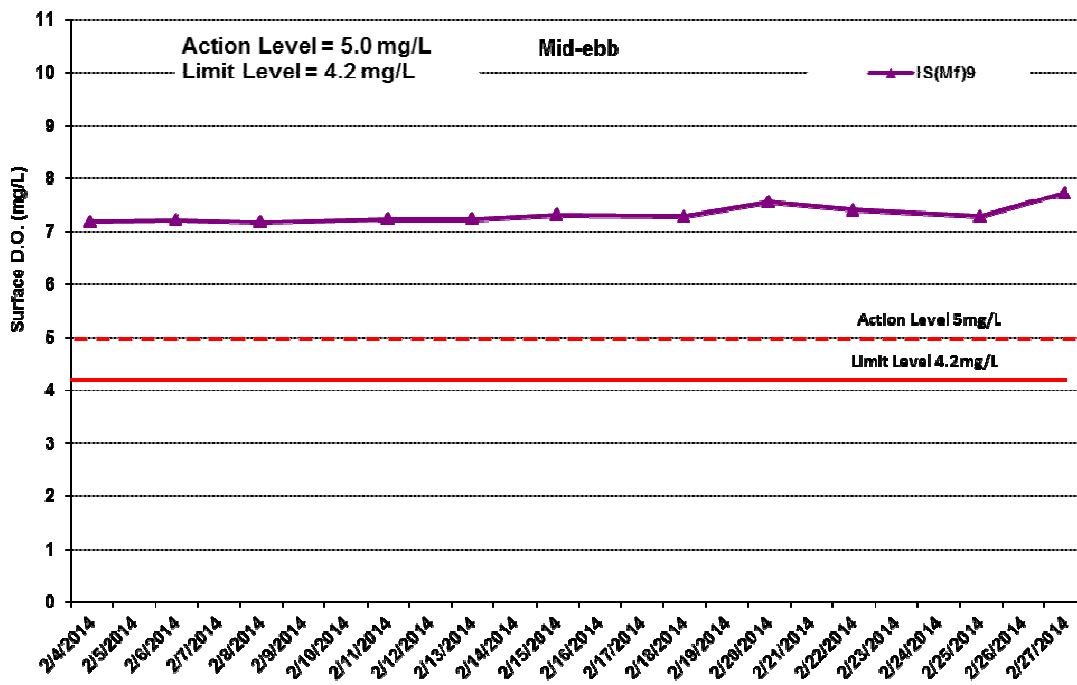
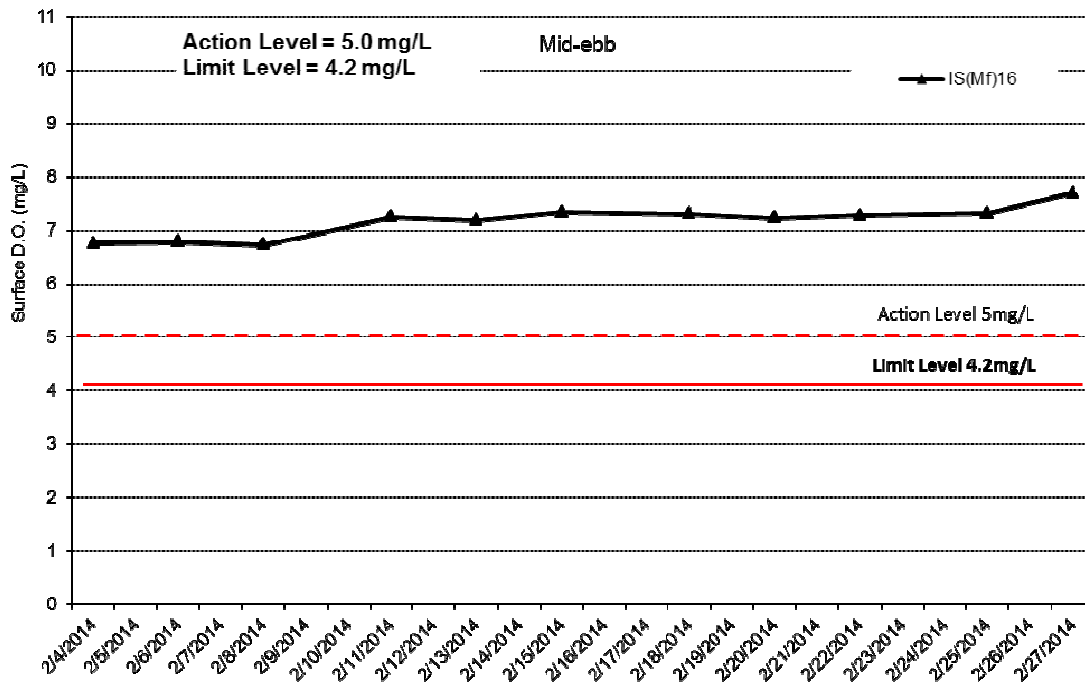


Figure J2 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 to 28 February 2014 at IS(Mf)16 and IS(Mf)9.

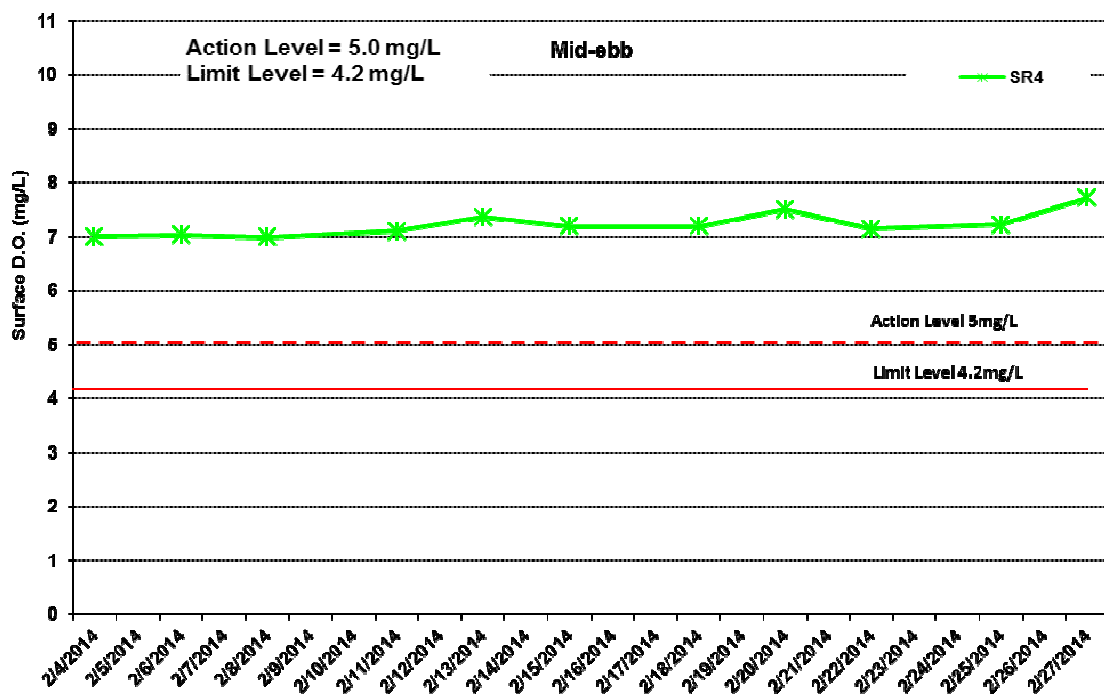
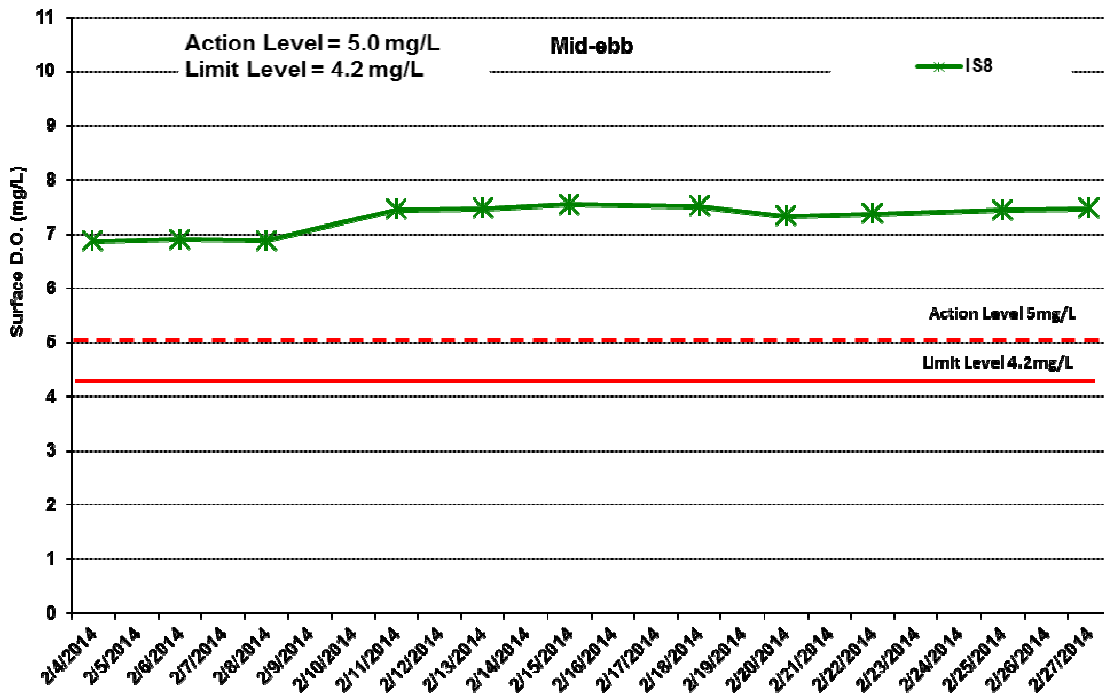


Figure J3 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 to 28 February 2014 at IS8 and SR4.

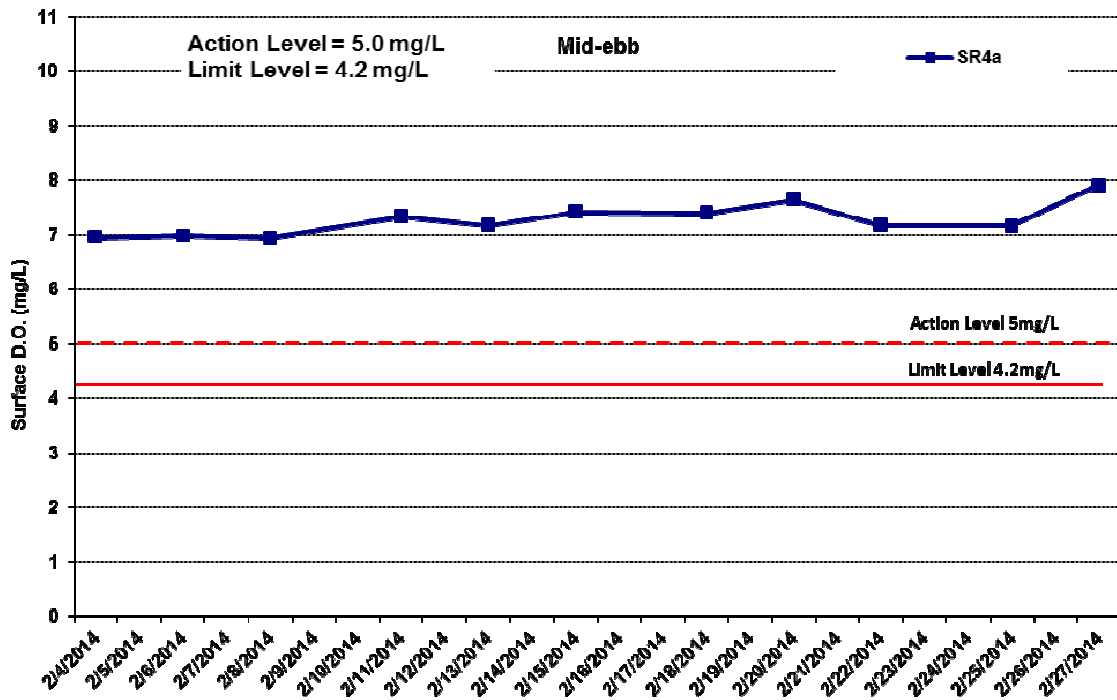


Figure J4 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 to 28 February 2014 at SR4a.

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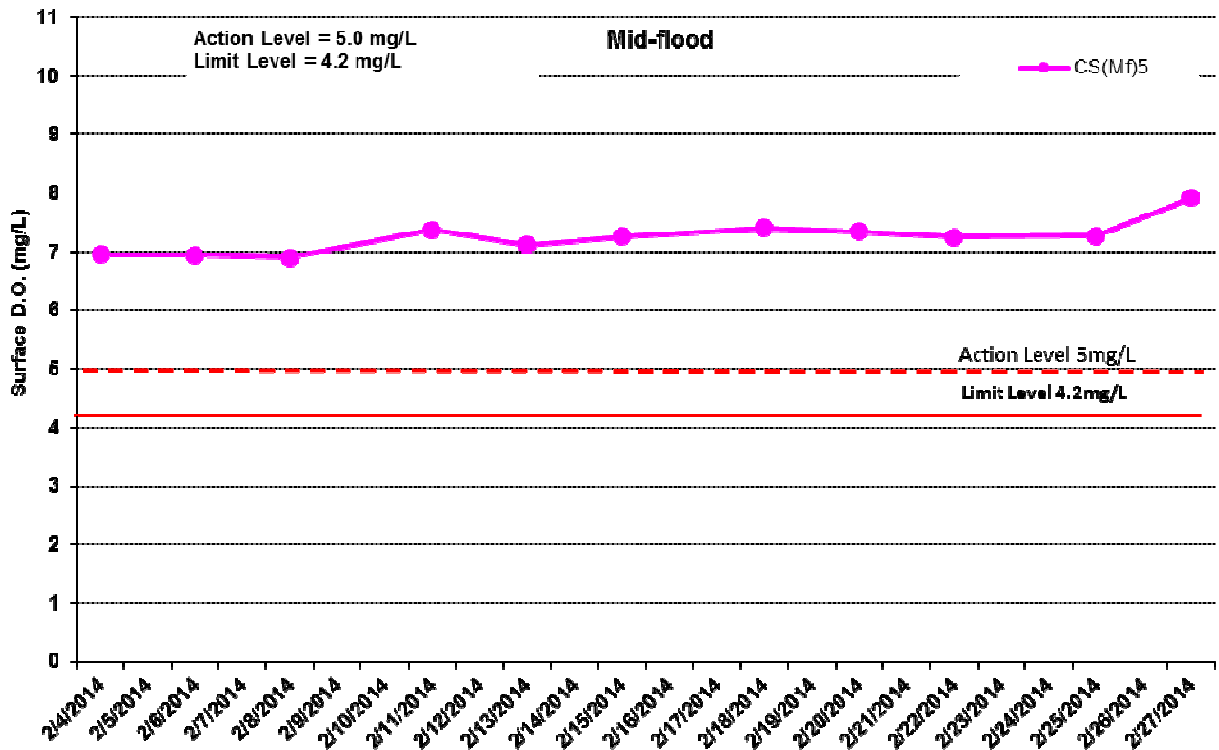
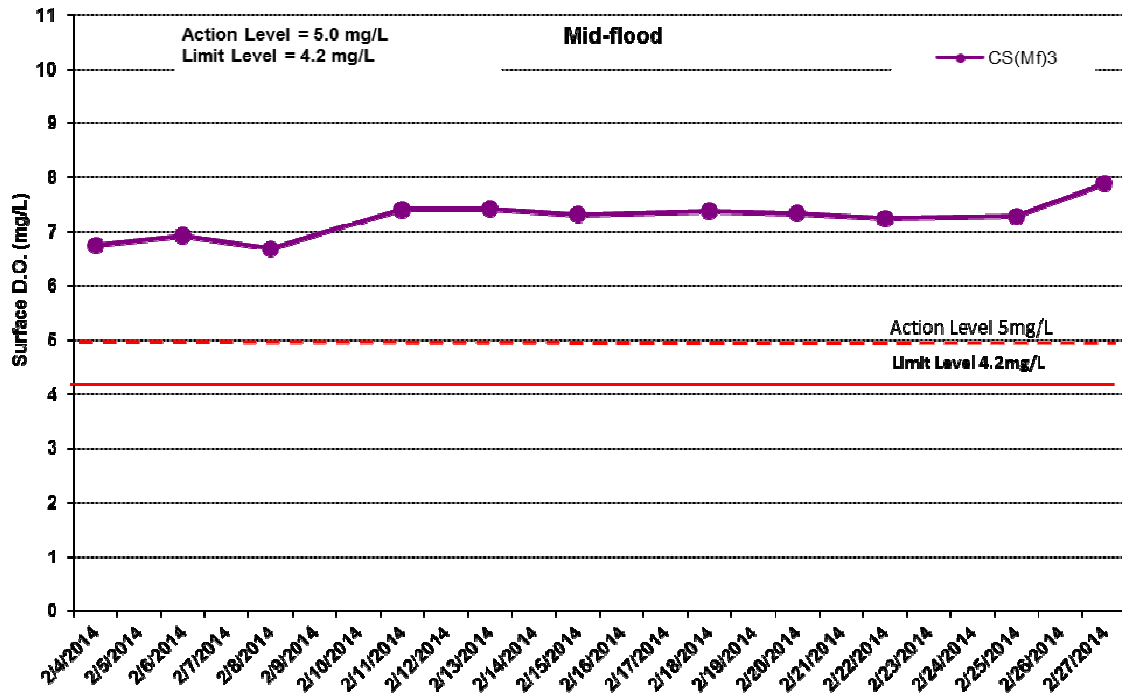


Figure J5 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 to 28 February 2014 at CS(Mf)3 and CS(Mf)5.

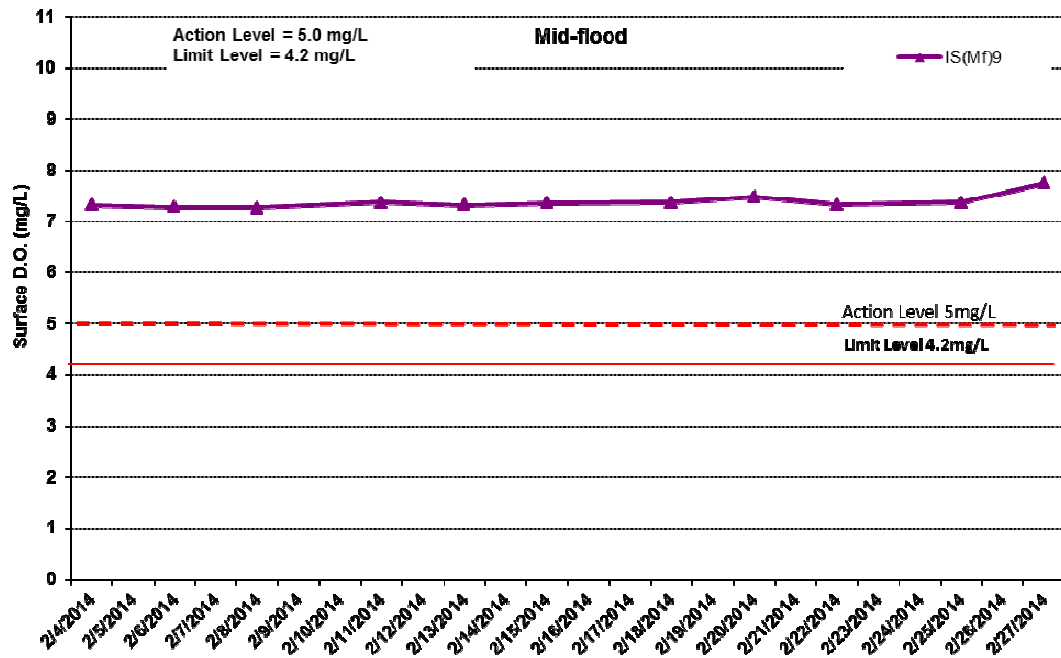
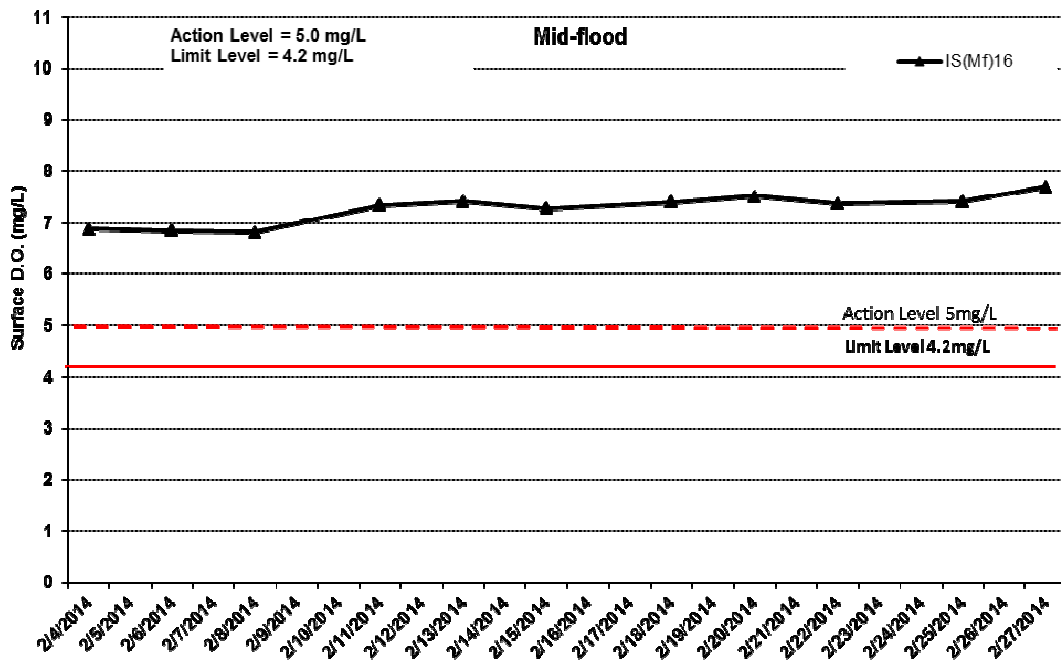


Figure J6 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 to 28 February 2014 at IS(Mf)16 and IS(Mf)9.

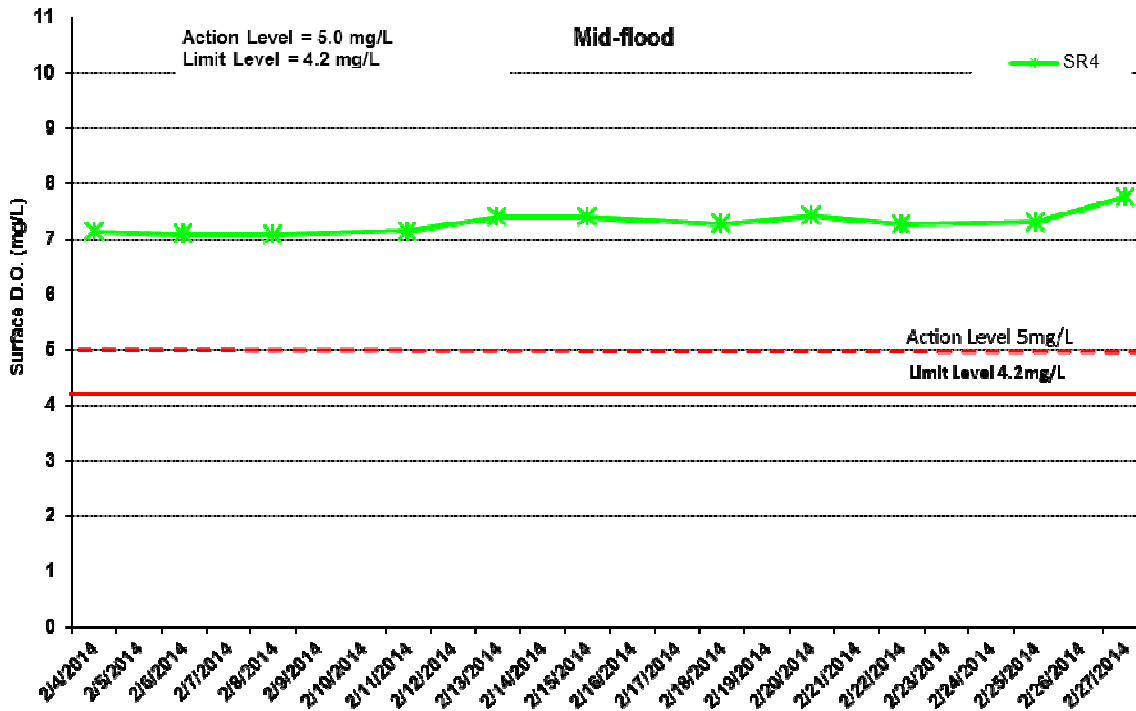
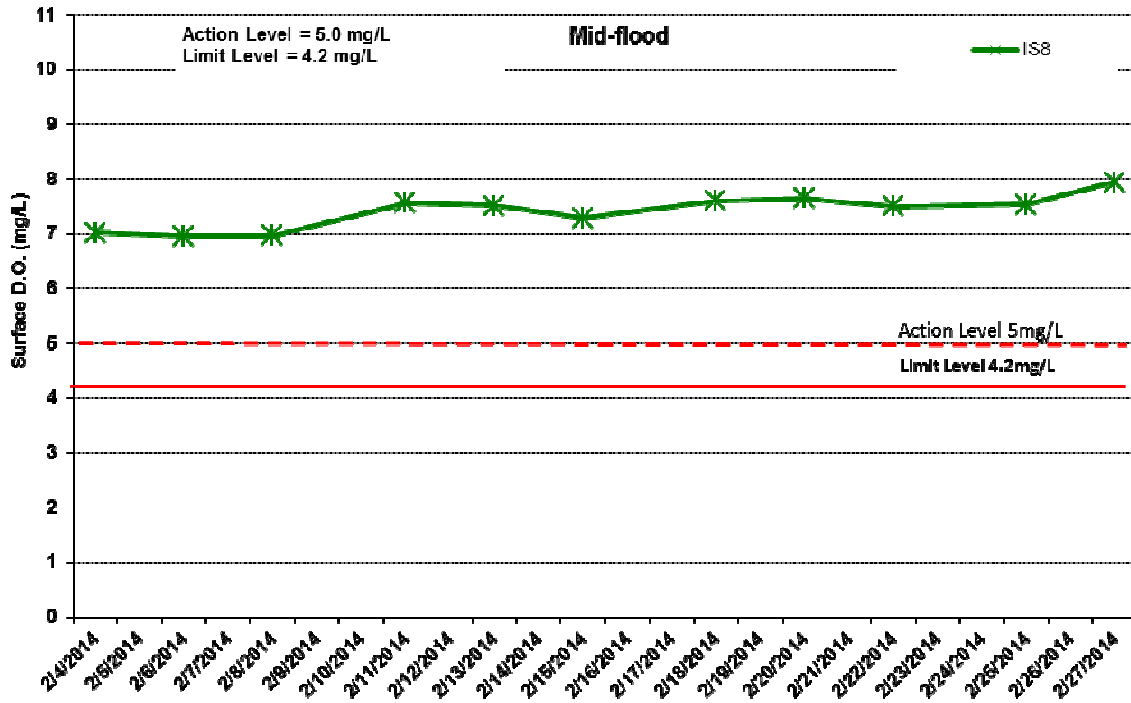


Figure J7 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 to 28 February 2014 at IS8 and SR4.

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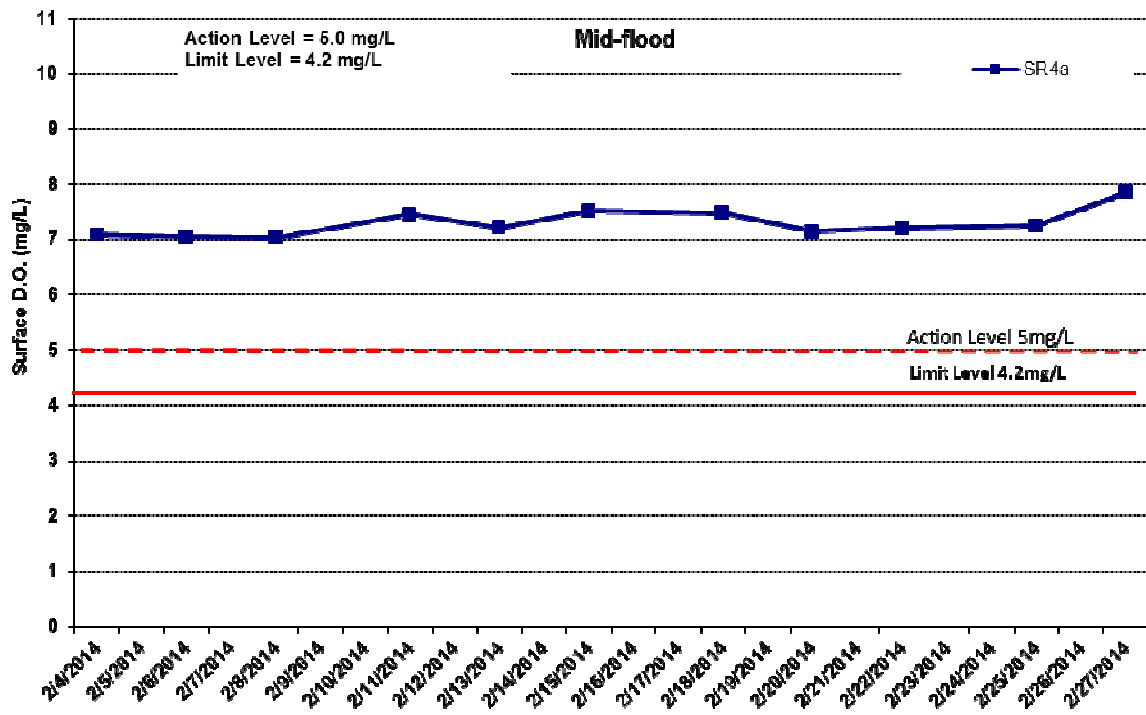


Figure J8 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 to 28 February 2014 at SR4a.

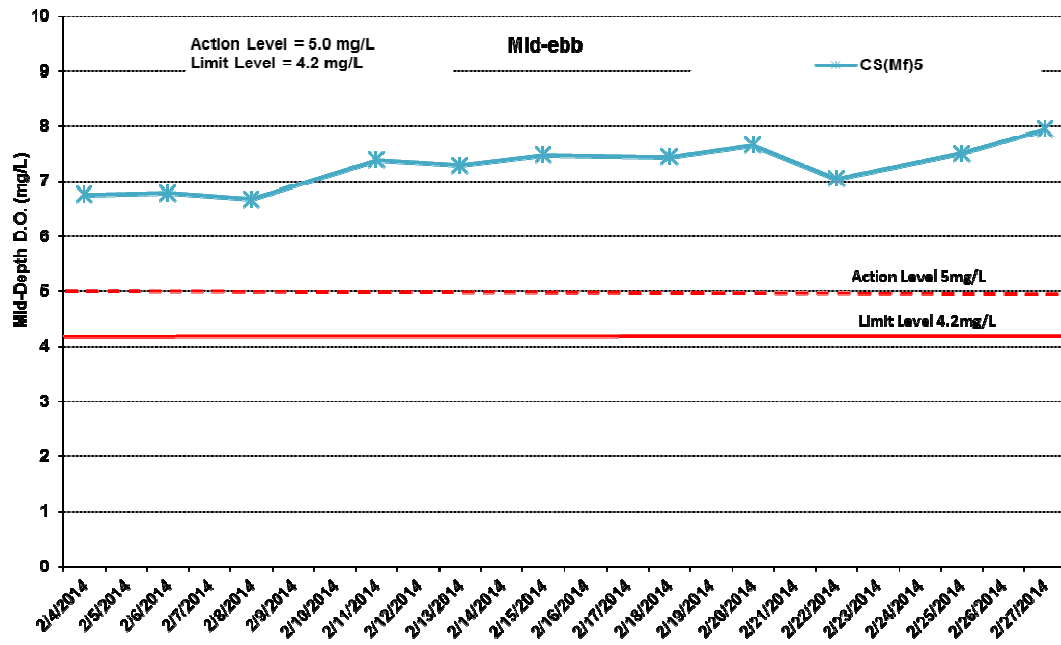
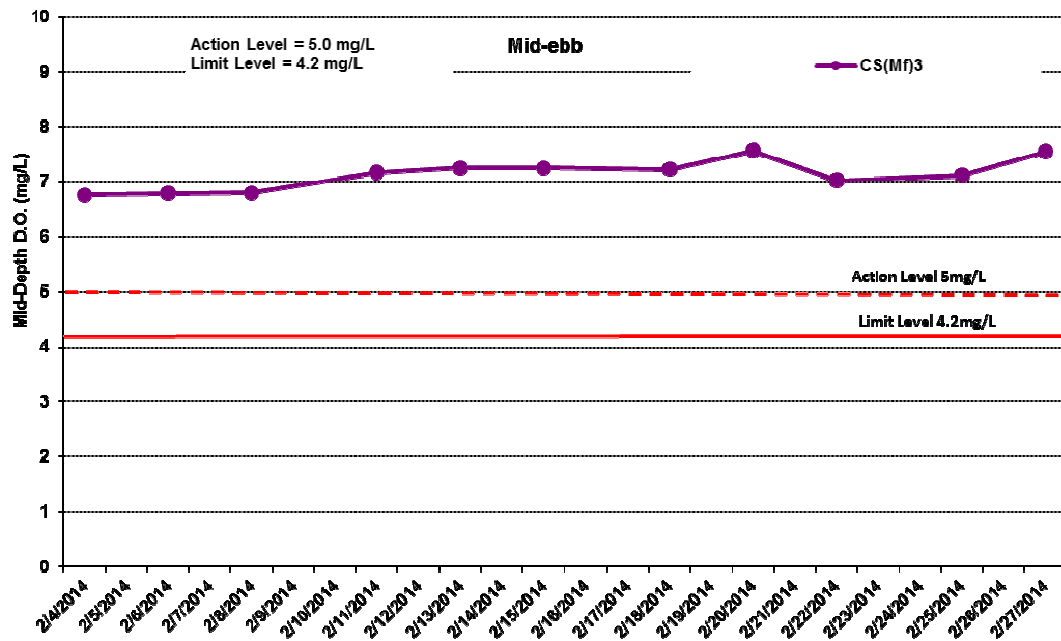


Figure J9 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-ebb tide between 1 to 28 February 2014 at CS(Mf)3 and IS(Mf)5.

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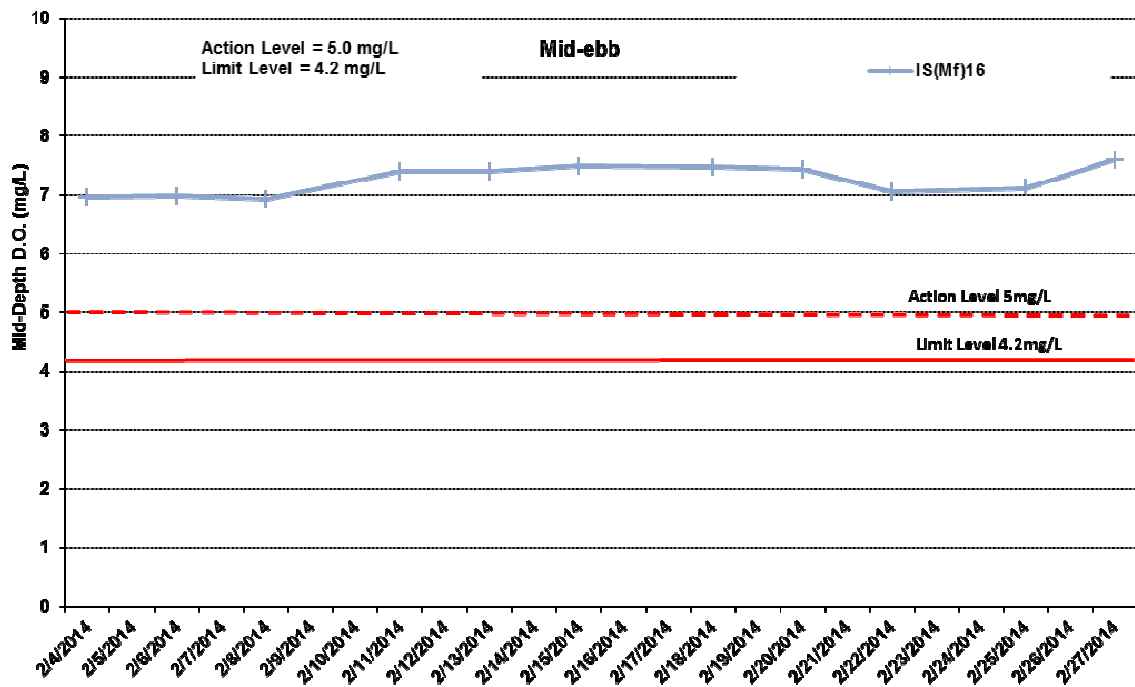


Figure J10 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-ebb tide between 1 to 28 February 2014 at IS(Mf)16.

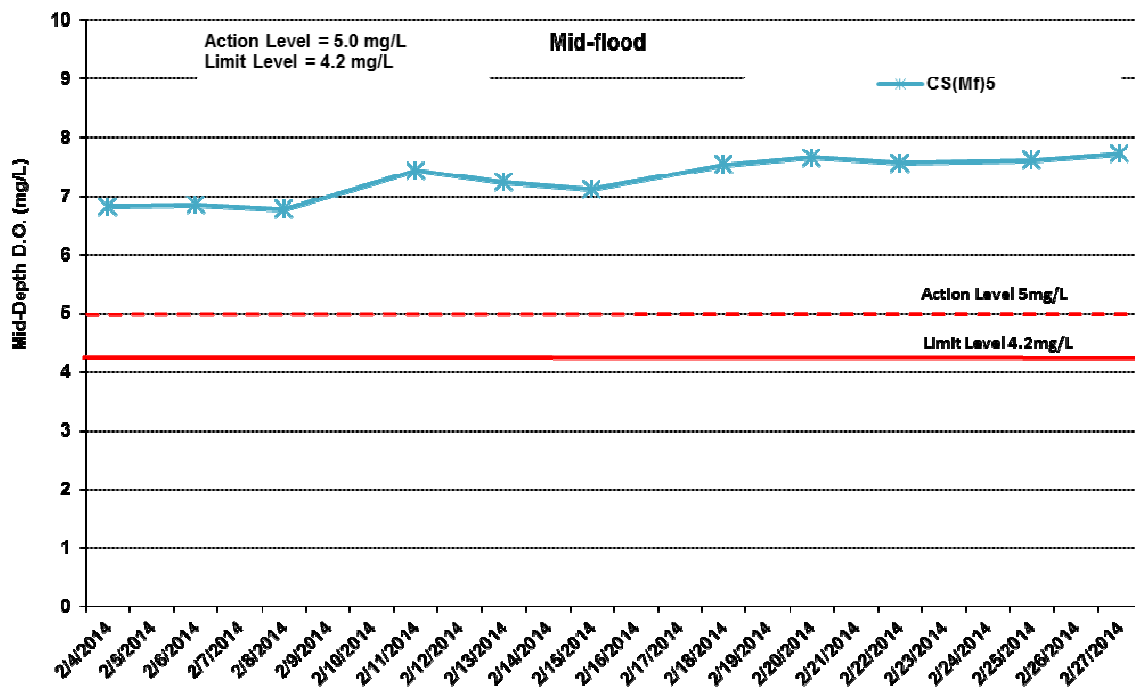
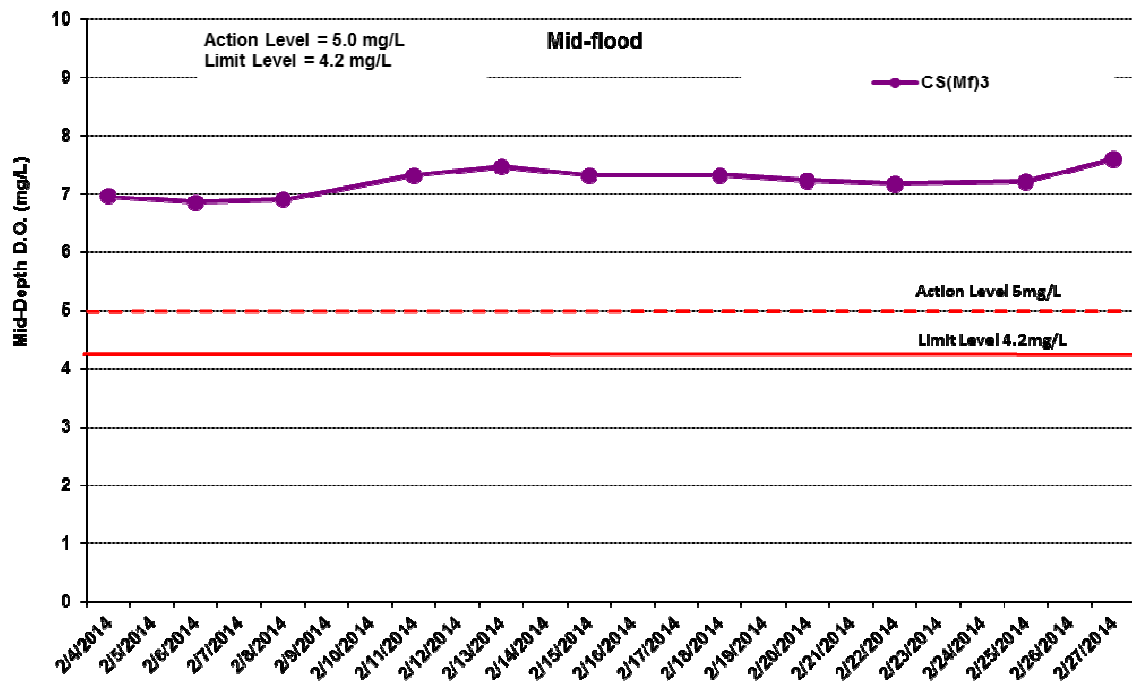


Figure J11 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-flood tide between 1 to 28 February 2014 at CS(Mf)3 and IS(Mf)5.

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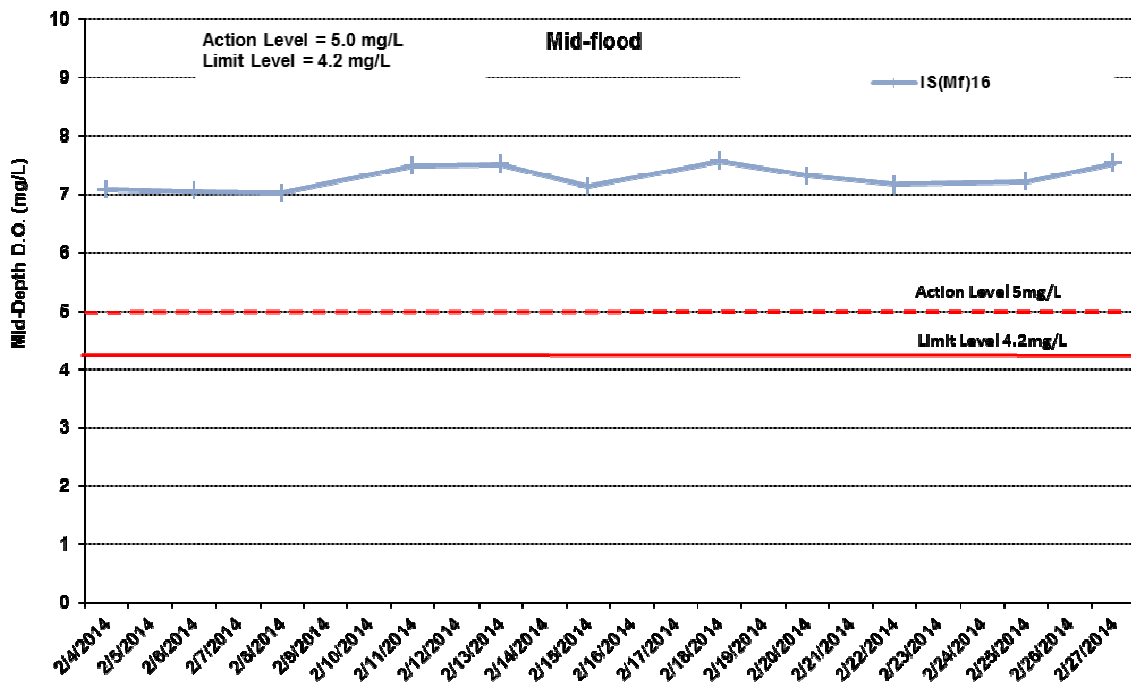


Figure J12 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-flood tide between 1 to 28 February 2014 at IS(Mf)16.

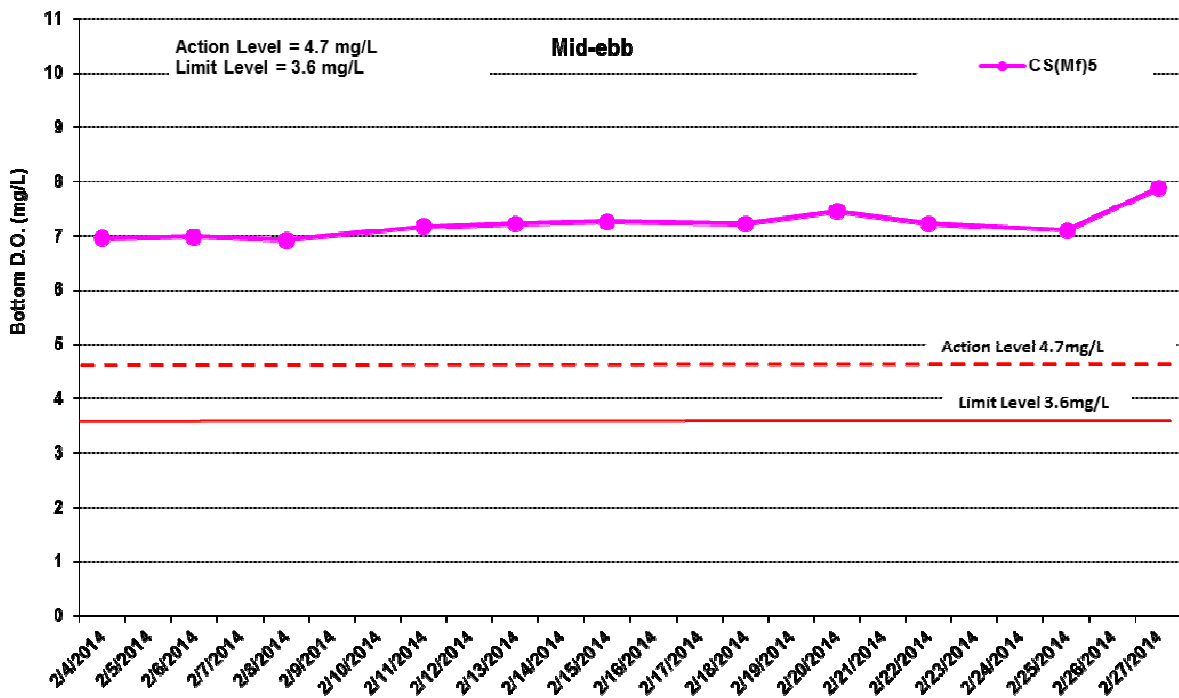
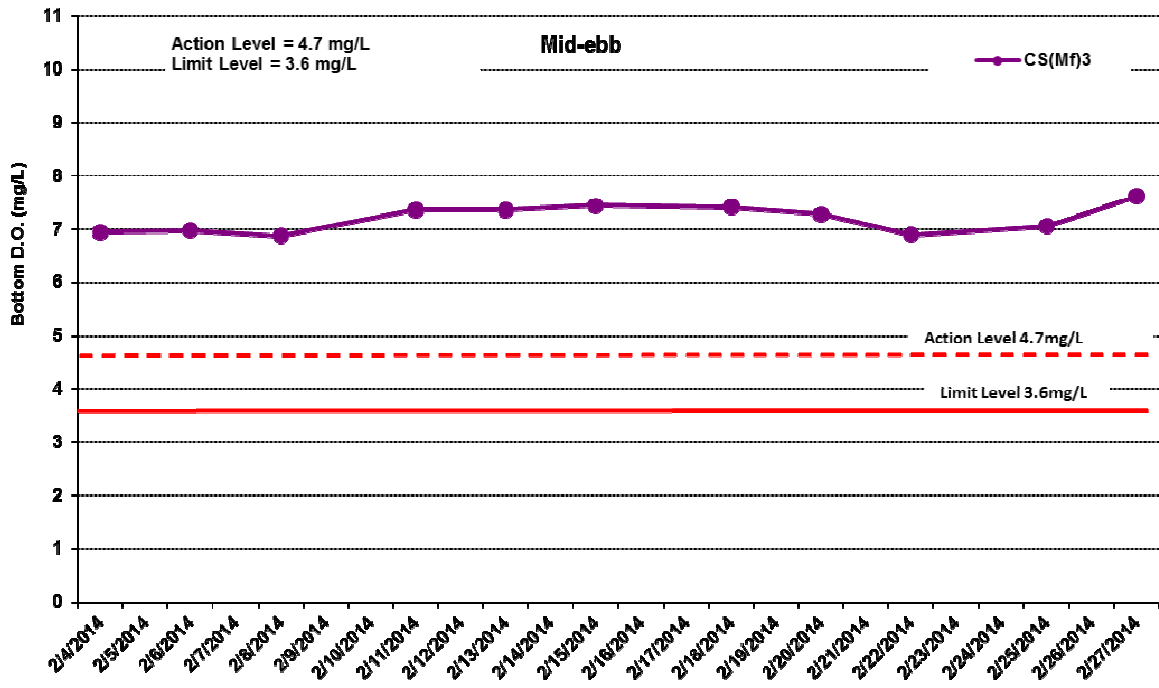


Figure J13 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 to 28 February 2014 at CS(Mf)3 and CS(Mf)5.



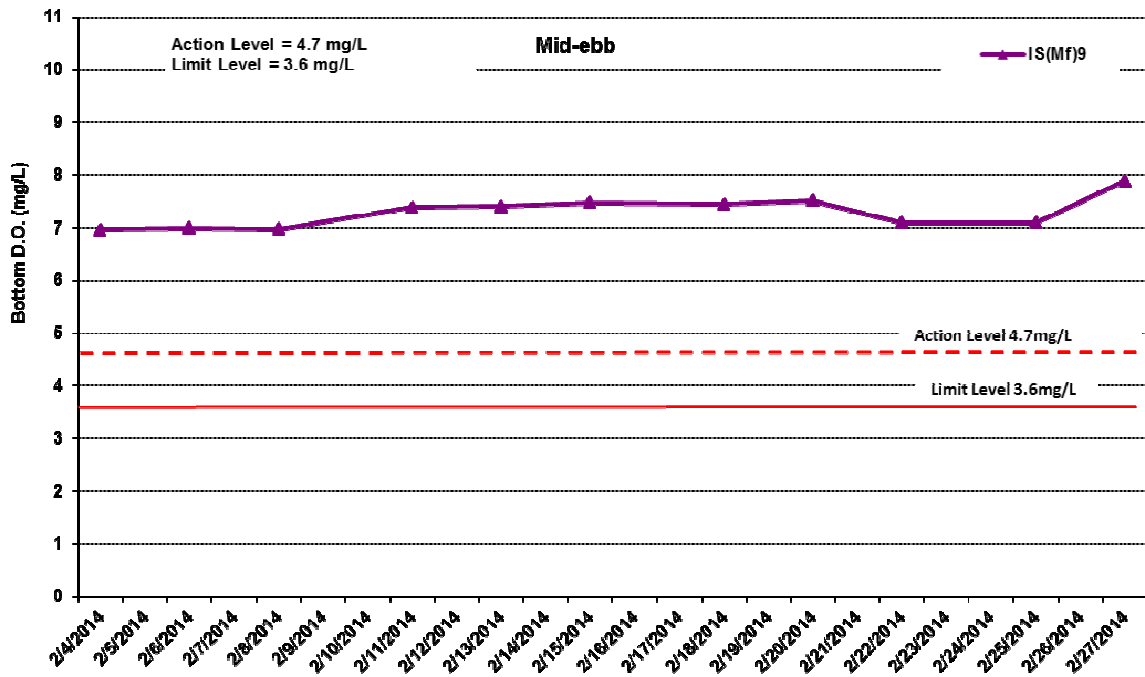
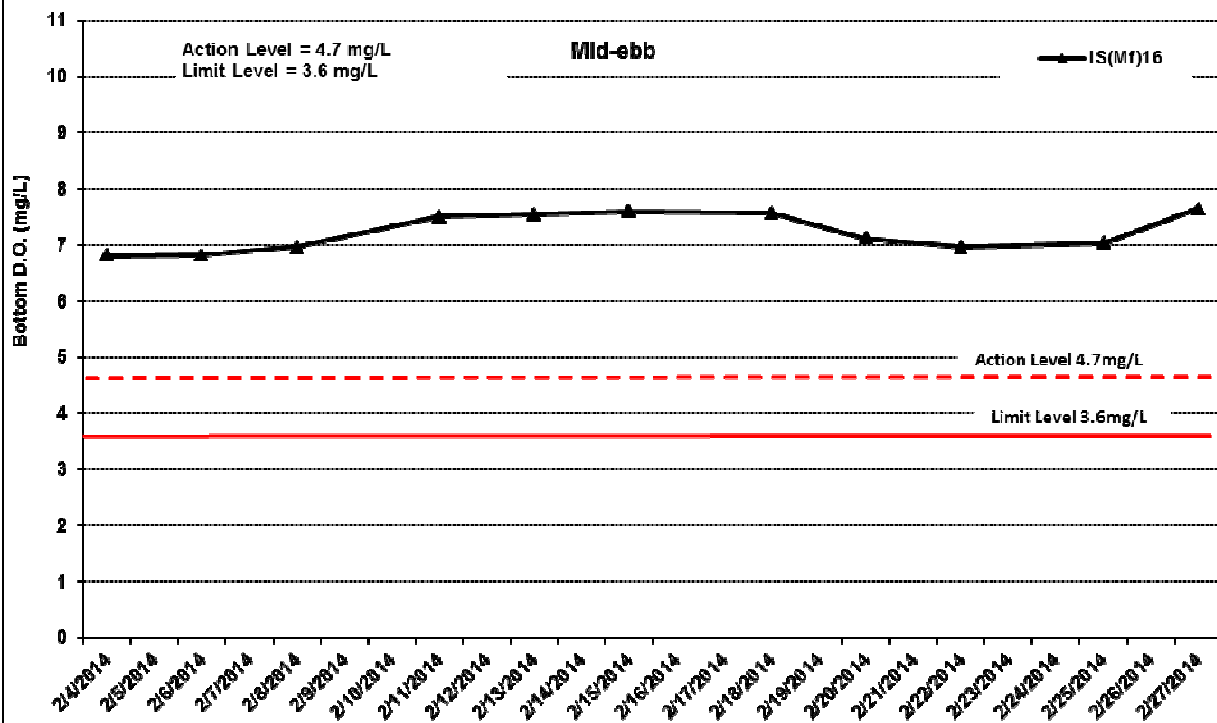


Figure J14 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 to 28 February 2014 at IS(Mf)16 and IS(Mf)9.

Environmental Resources Management



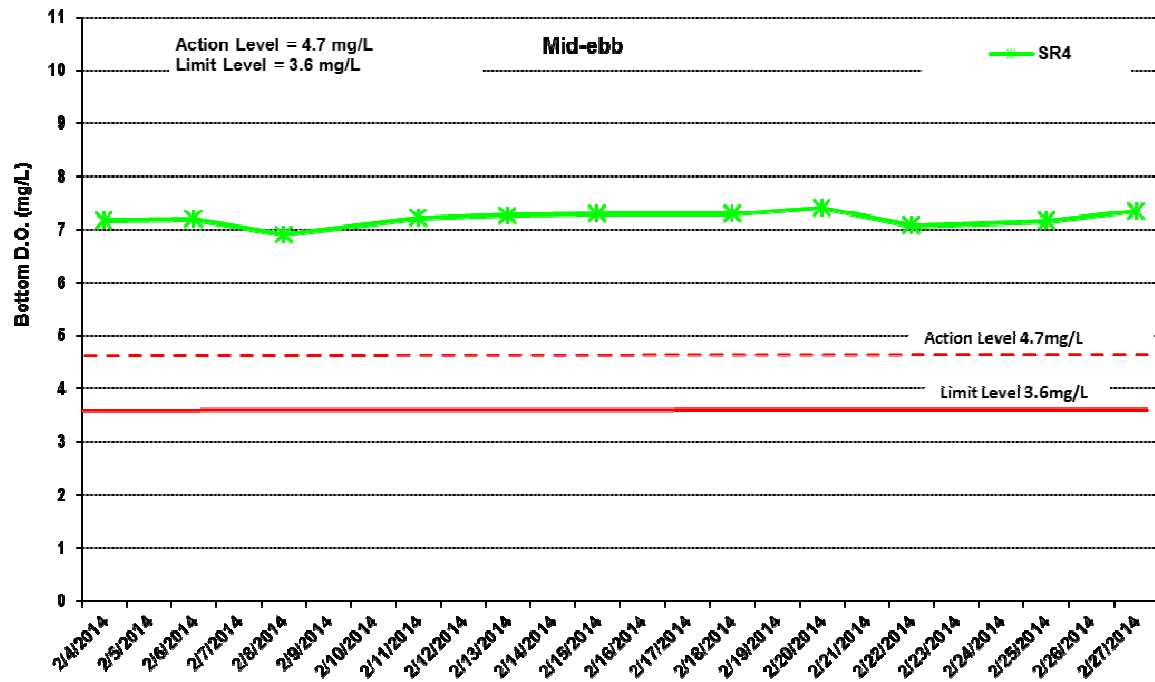
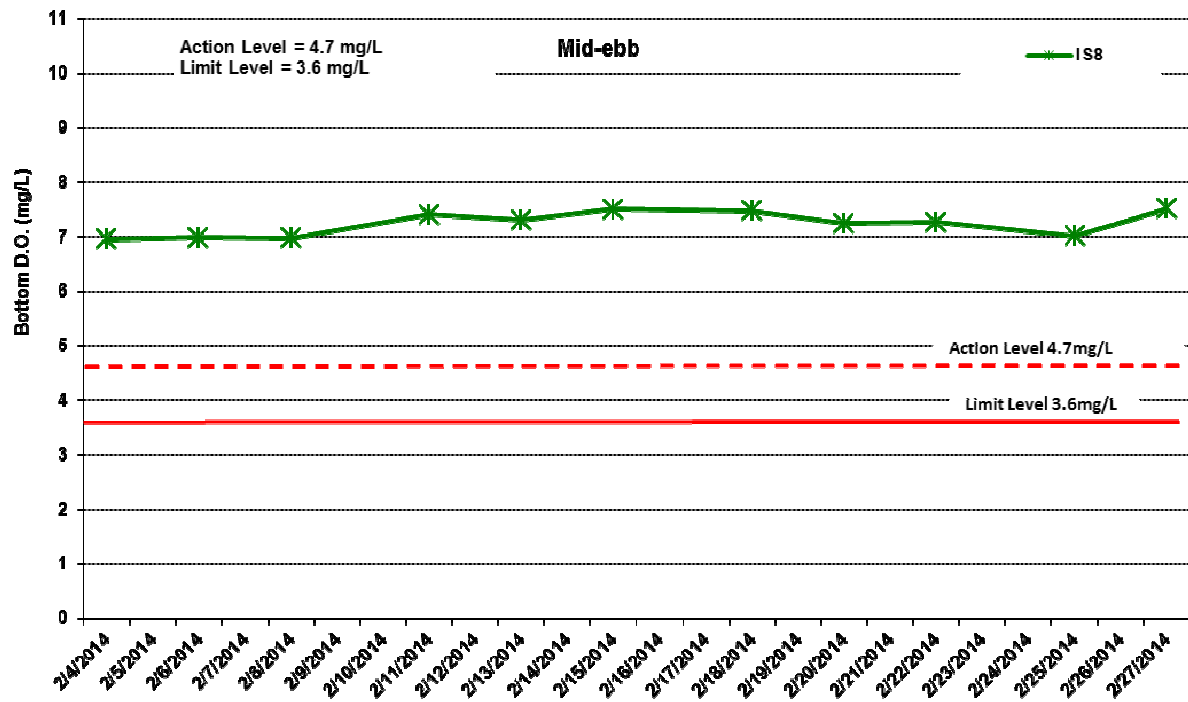


Figure J15 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 to 28 February 2014 at IS8 and SR4.



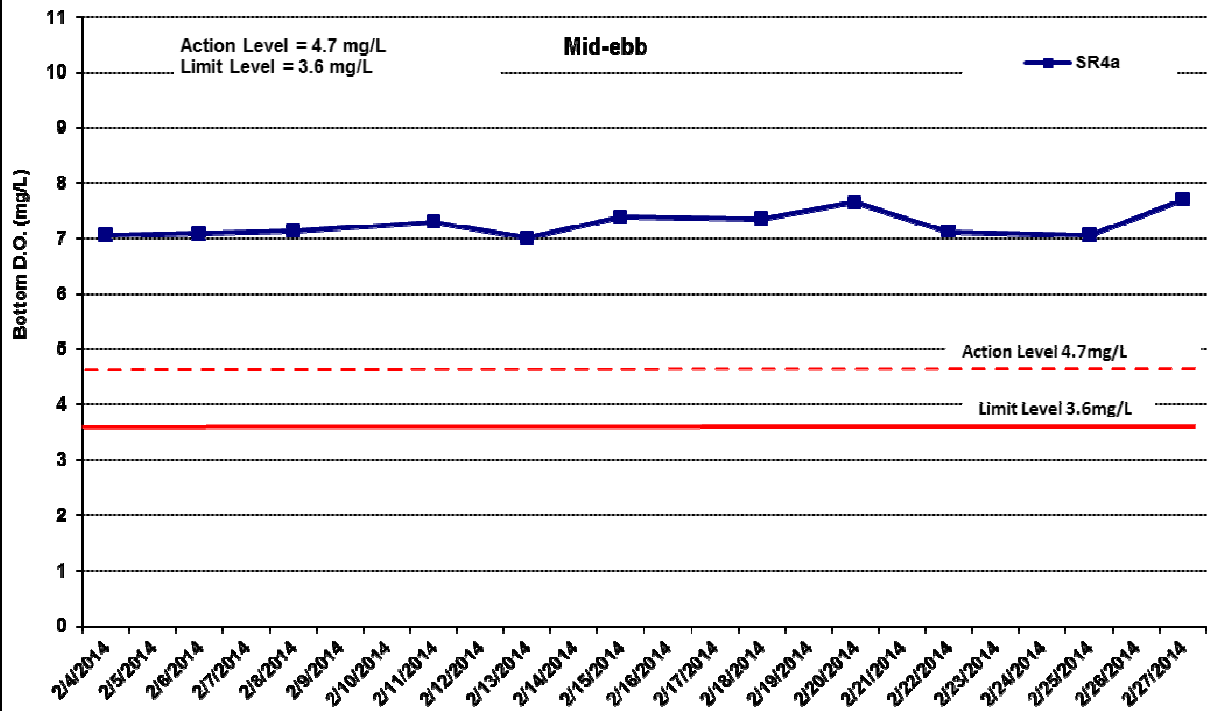


Figure J16 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 to 28 February 2014 at SR4a.

Environmental Resources Management



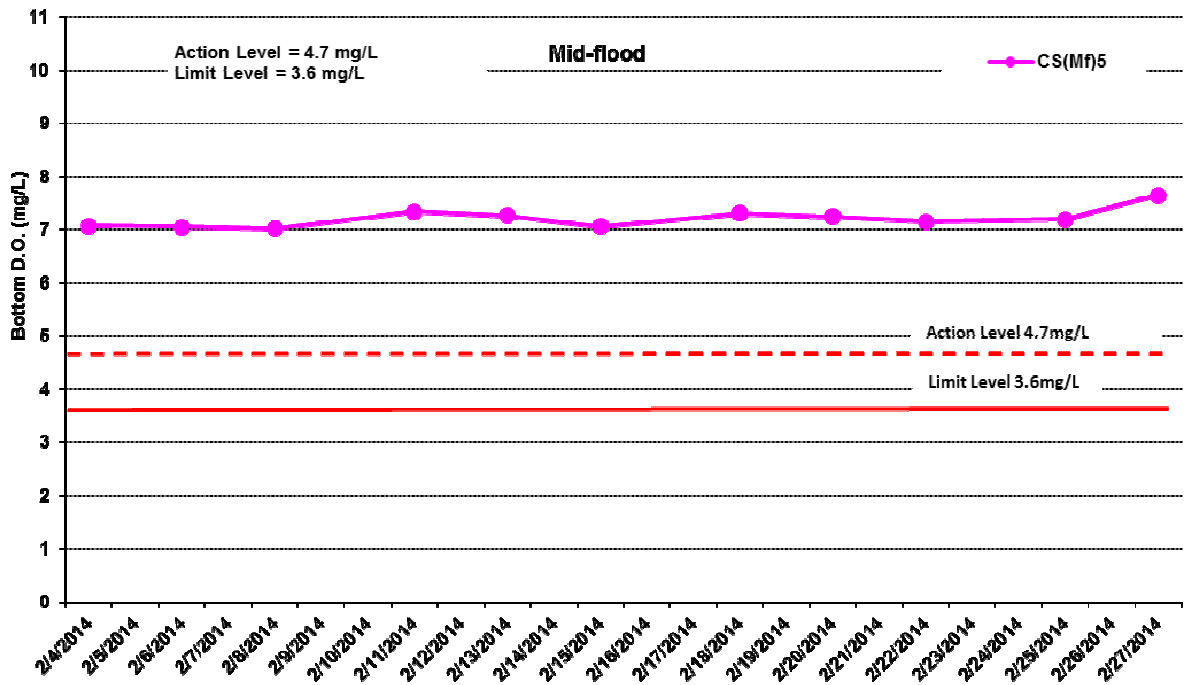
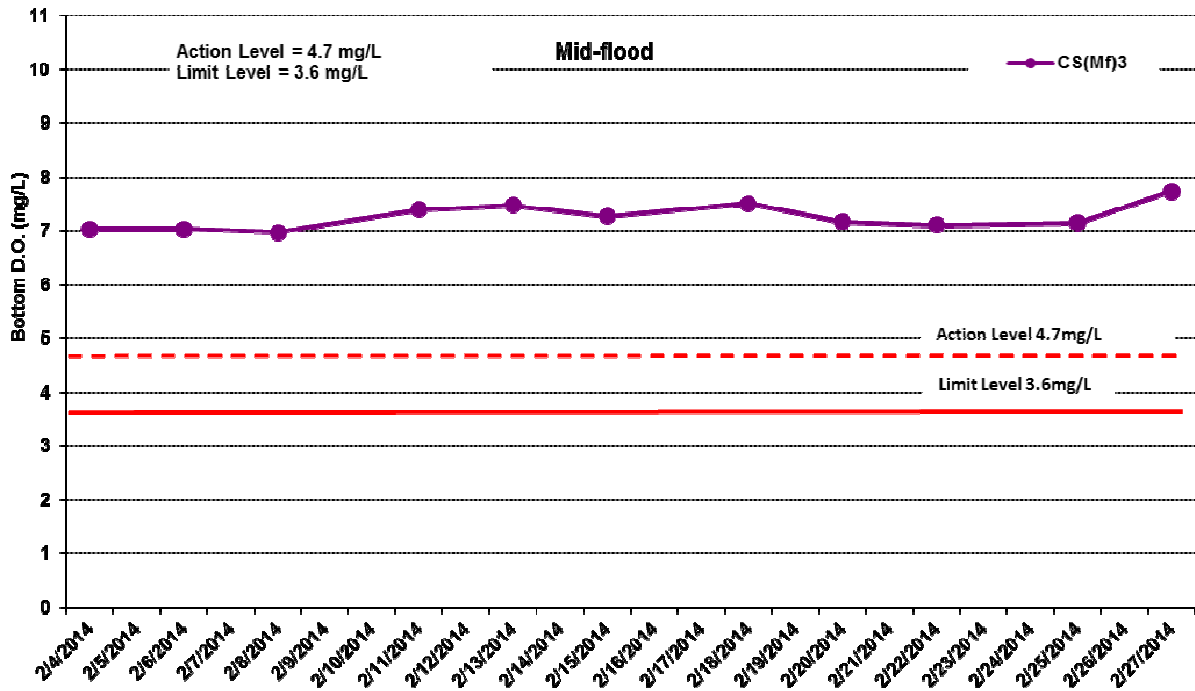


Figure J17 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 to 28 February 2014 at CS(Mf)3 and CS(Mf)5.

Environmental Resources Management



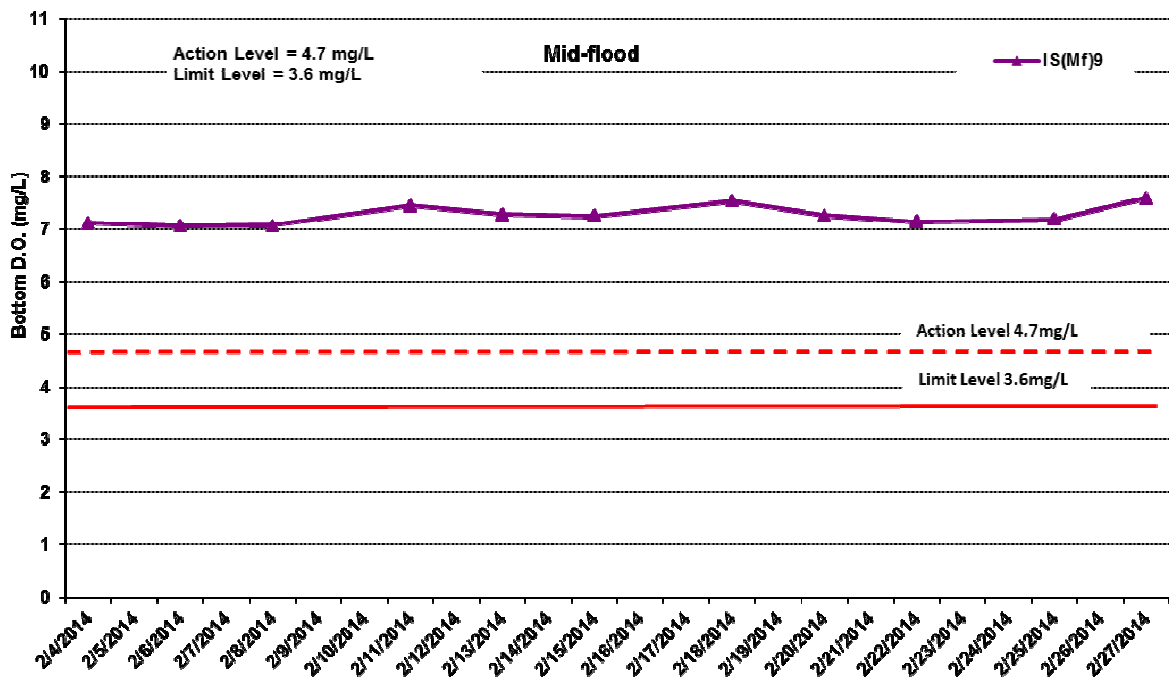
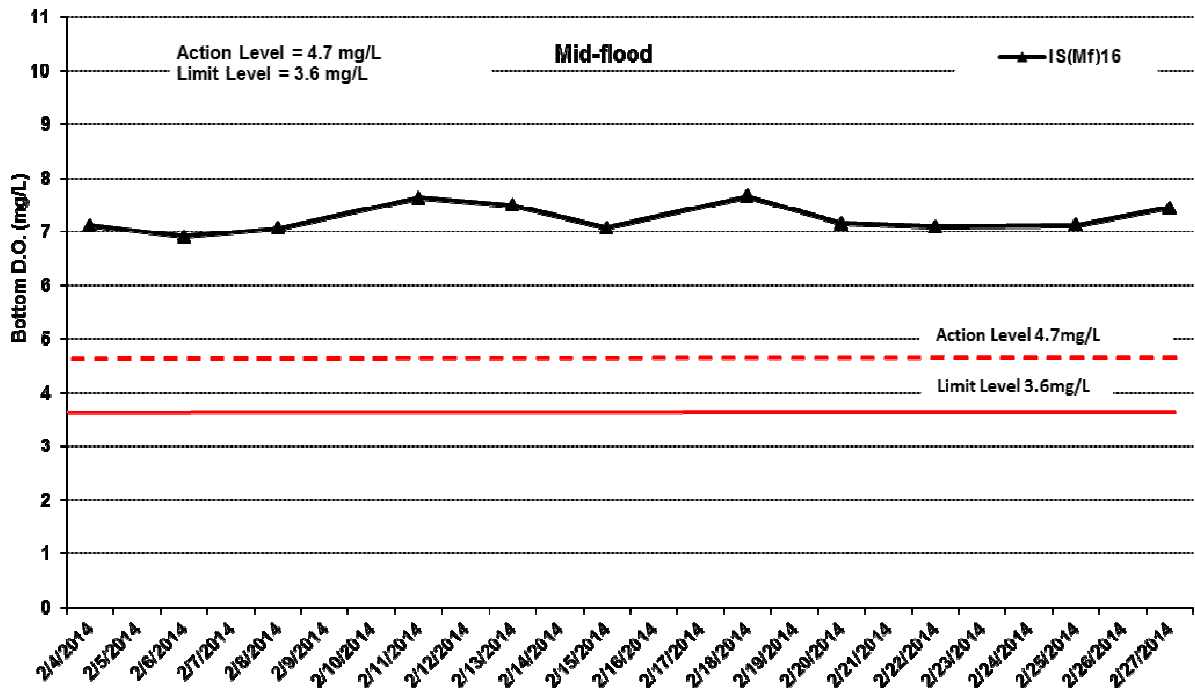


Figure J18 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 to 28 February 2014 at IS(Mf)16 and IS(Mf)9.

Environmental Resources Management



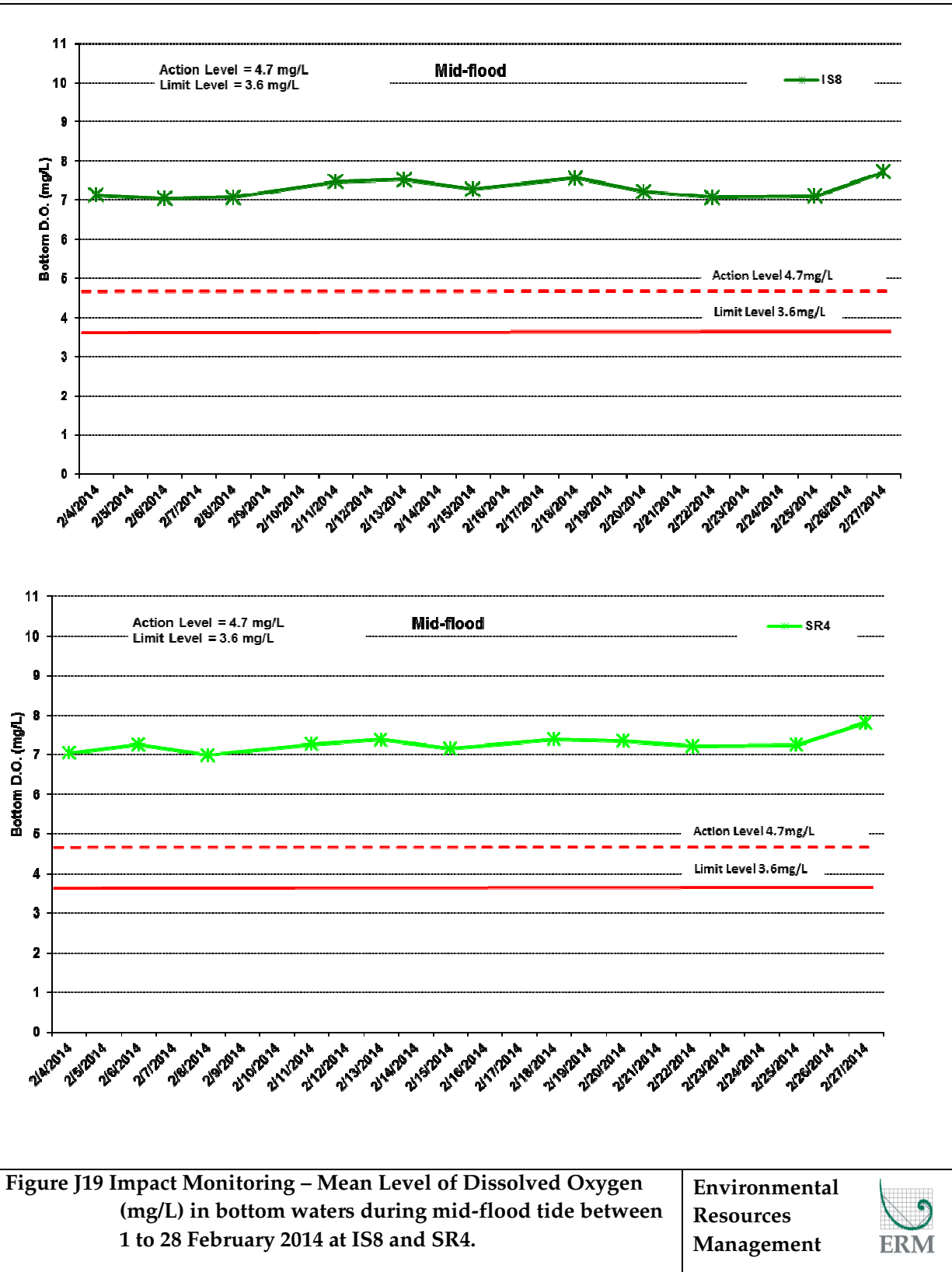


Figure J19 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 to 28 February 2014 at IS8 and SR4.

Environmental Resources Management



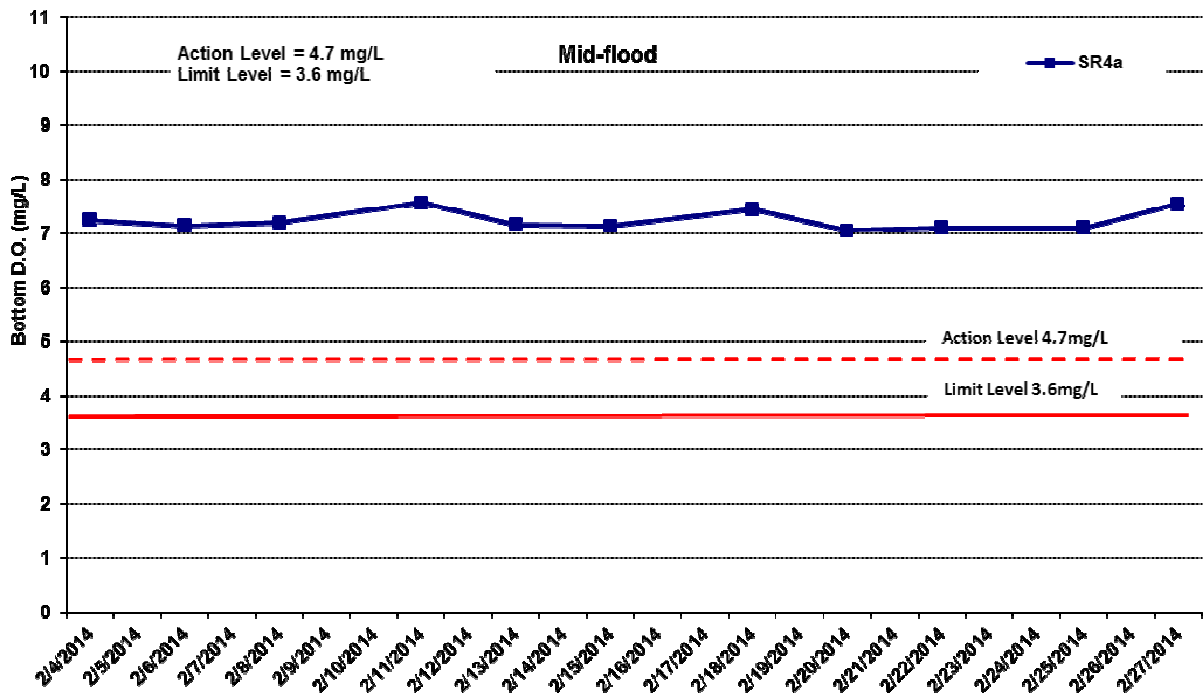


Figure J20 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 to 28 February 2014 at SR4a.

Environmental  
Resources  
Management



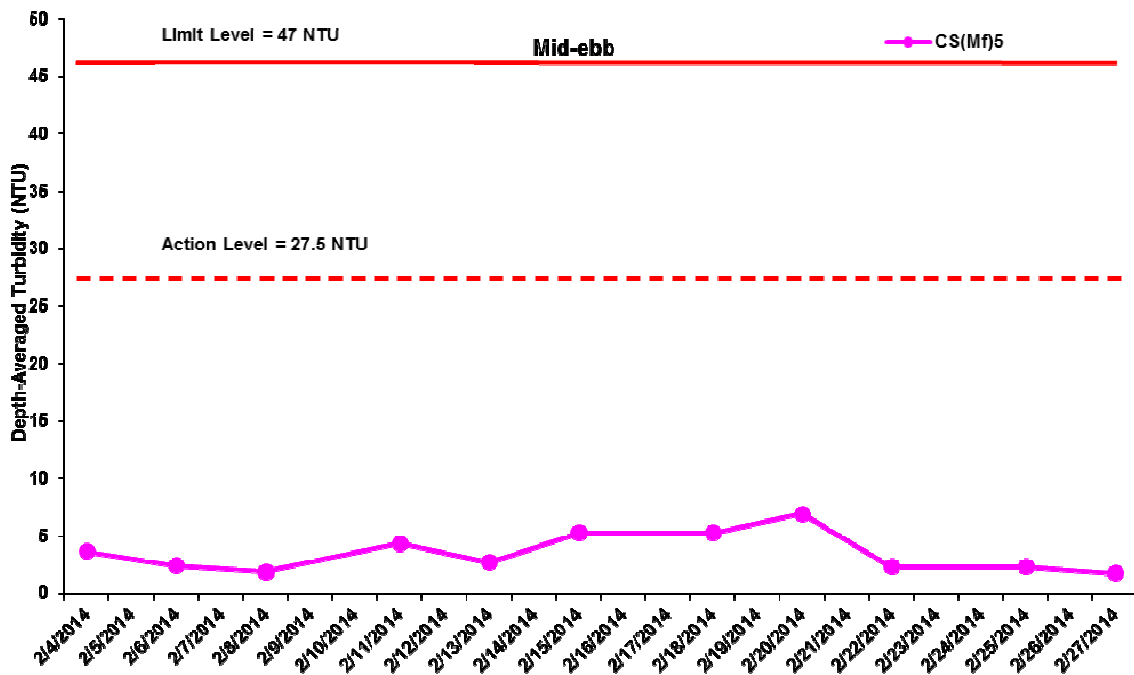
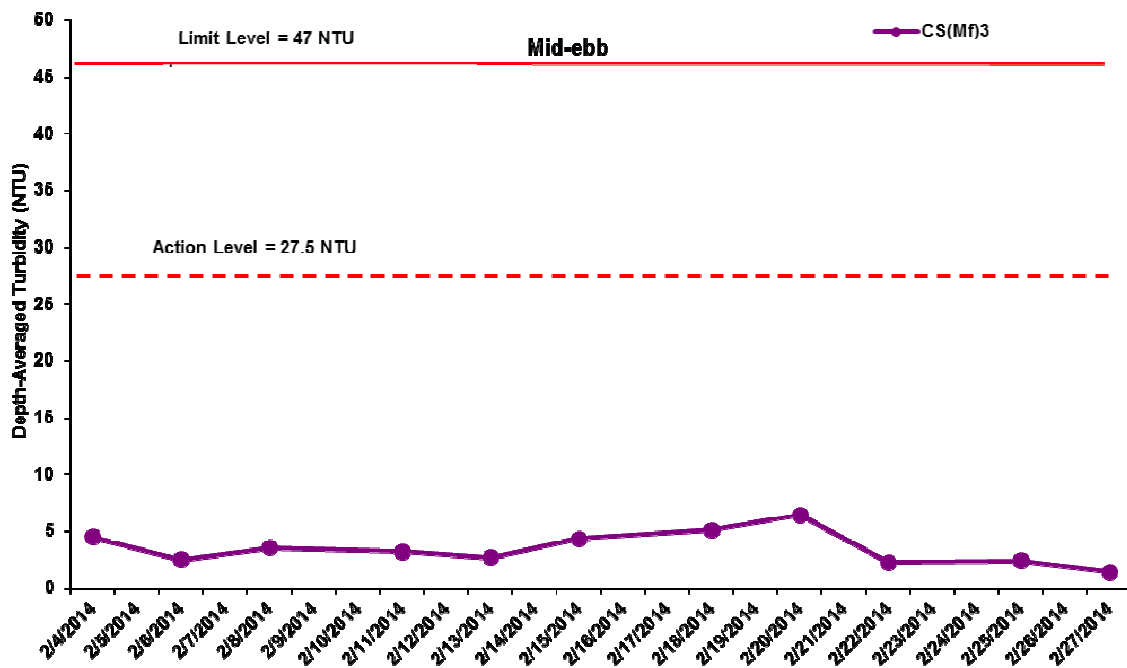


Figure J21 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 to 28 February 2014 at CS(Mf)3 and CS(Mf)5.

Environmental Resources Management



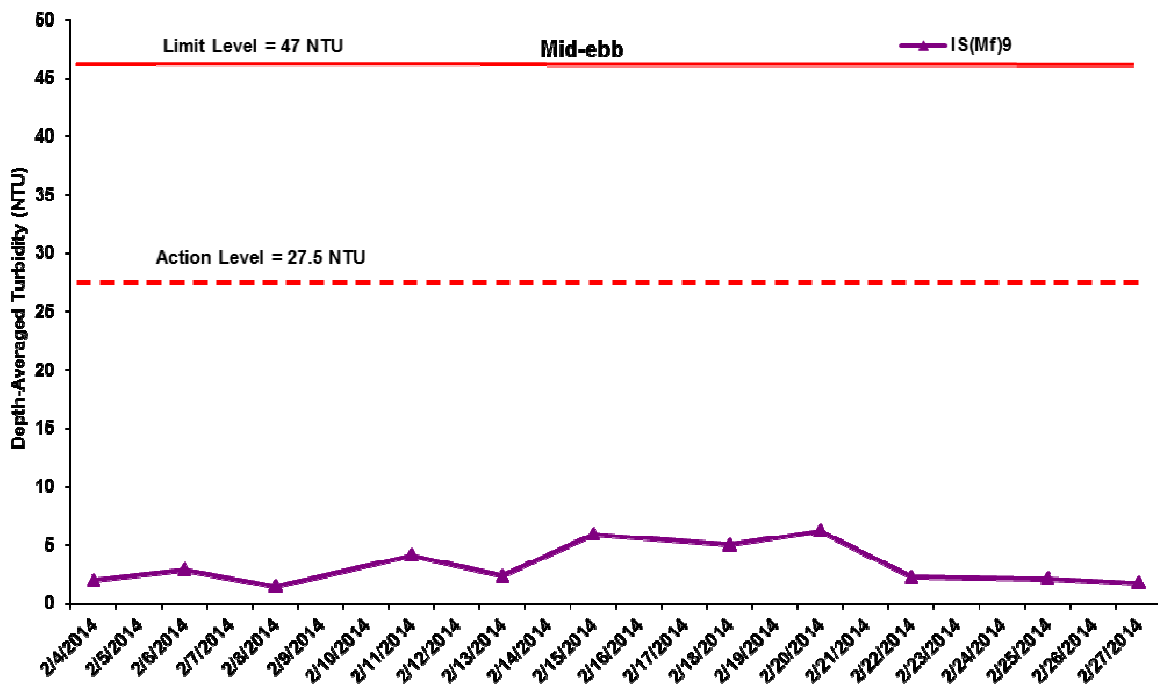
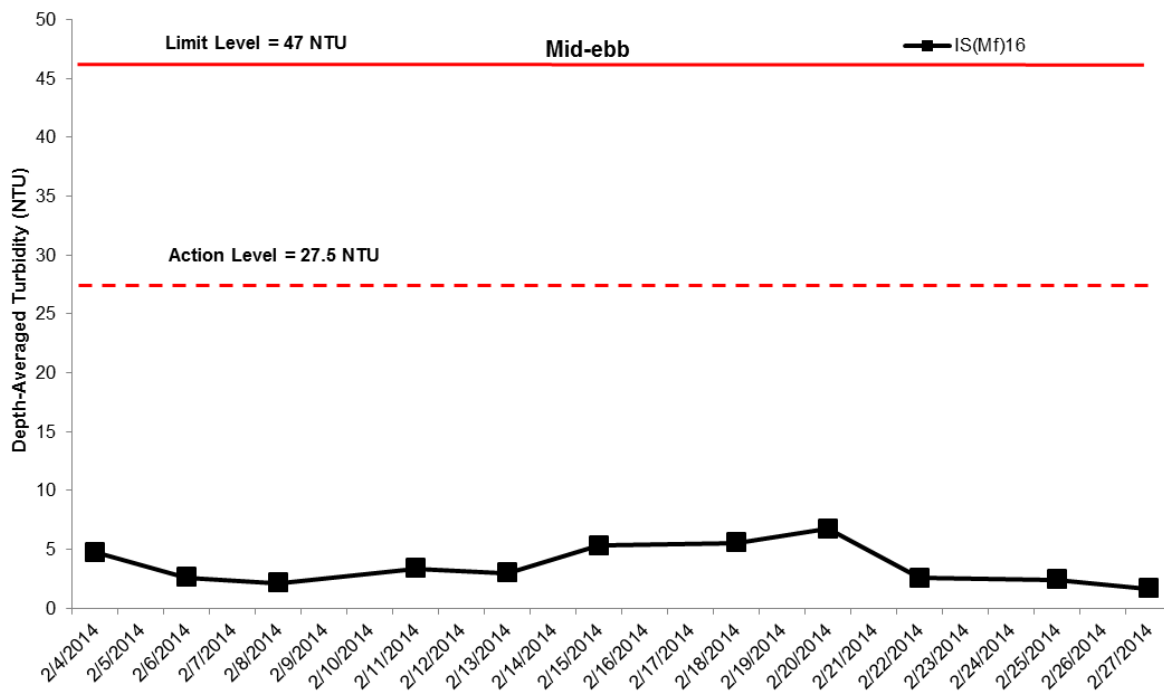


Figure J22 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 to 28 February 2014 at IS(Mf)16 and IS(Mf)9.

Environmental  
Resources  
Management



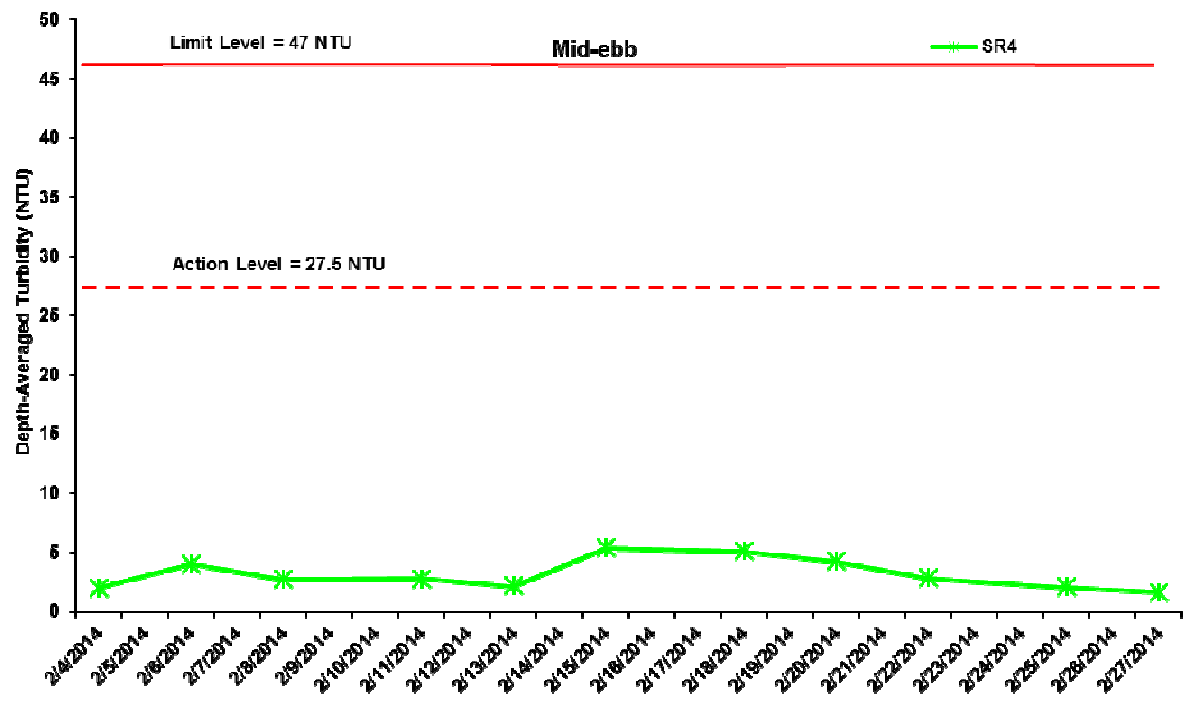
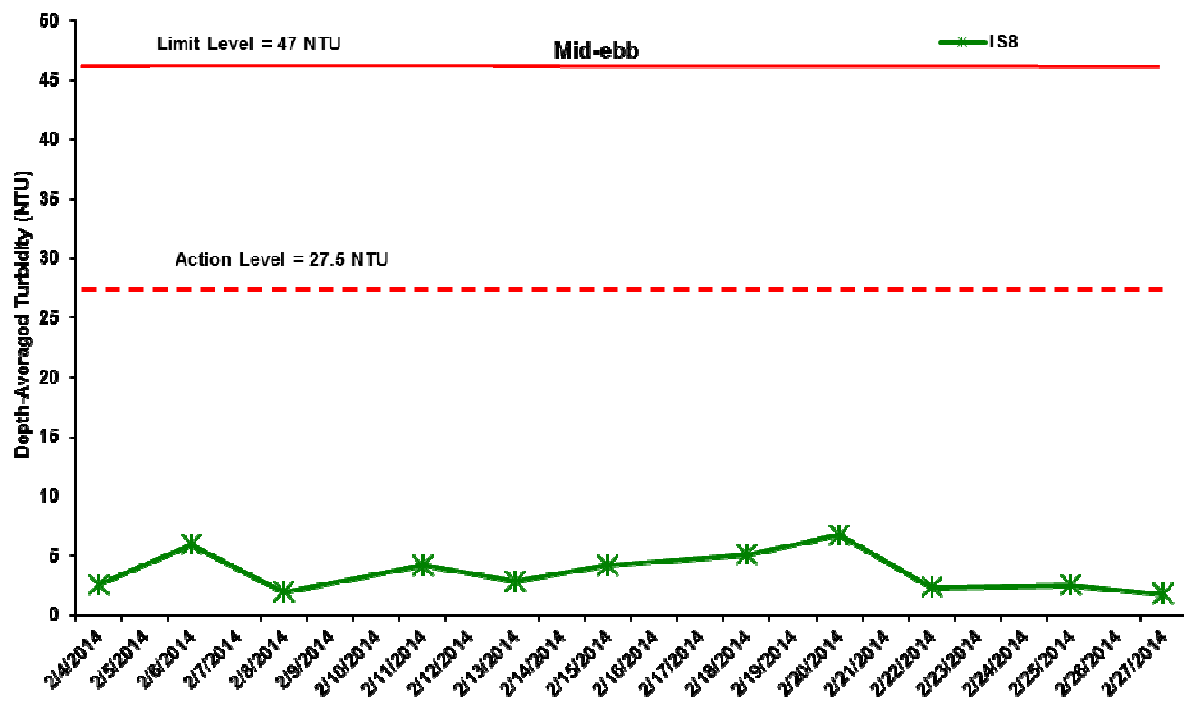


Figure J23 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 to 28 February 2014 at IS8 and SR4.

Environmental  
Resources  
Management





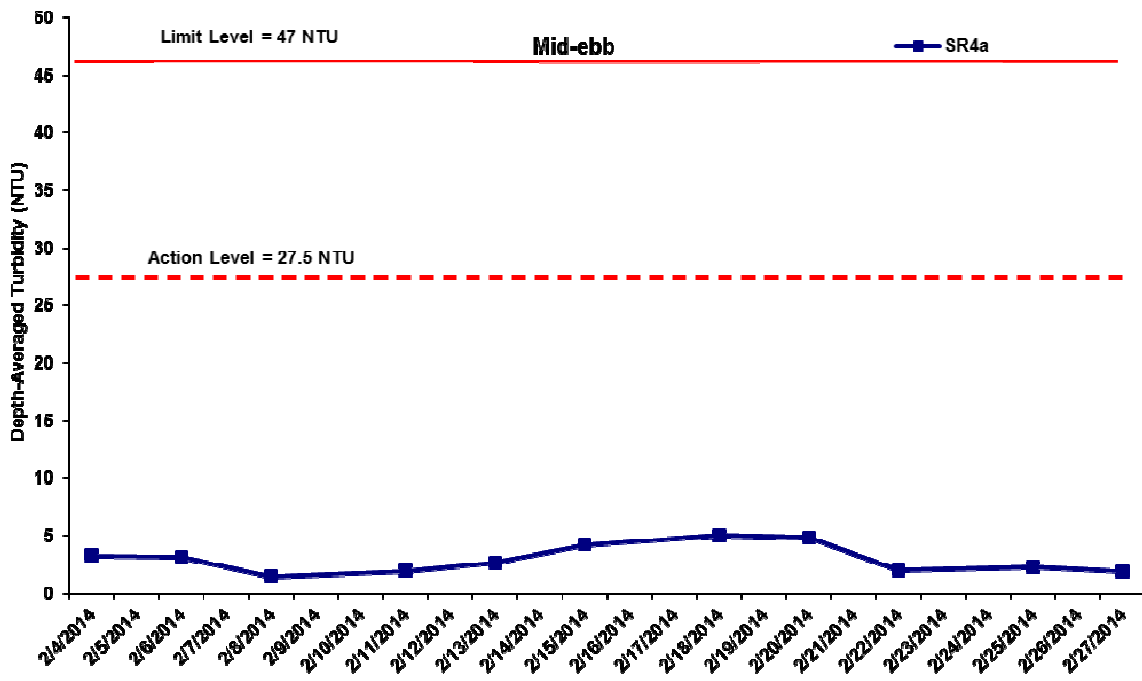


Figure J24 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 to 28 February 2014 at SR4a.

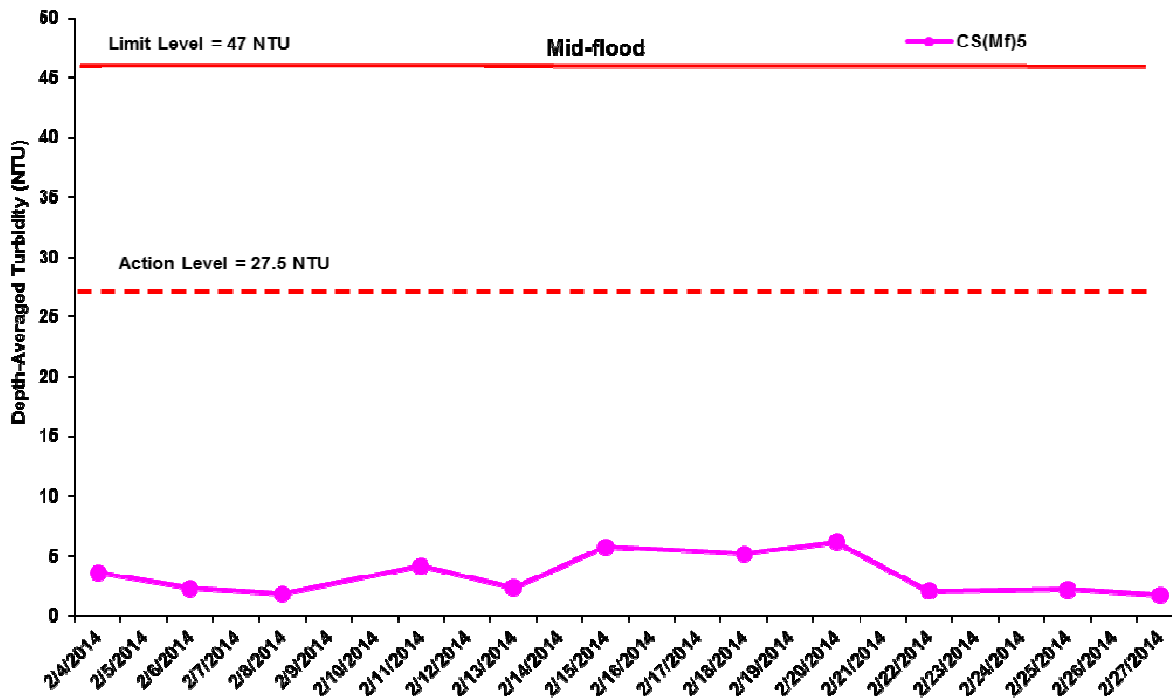
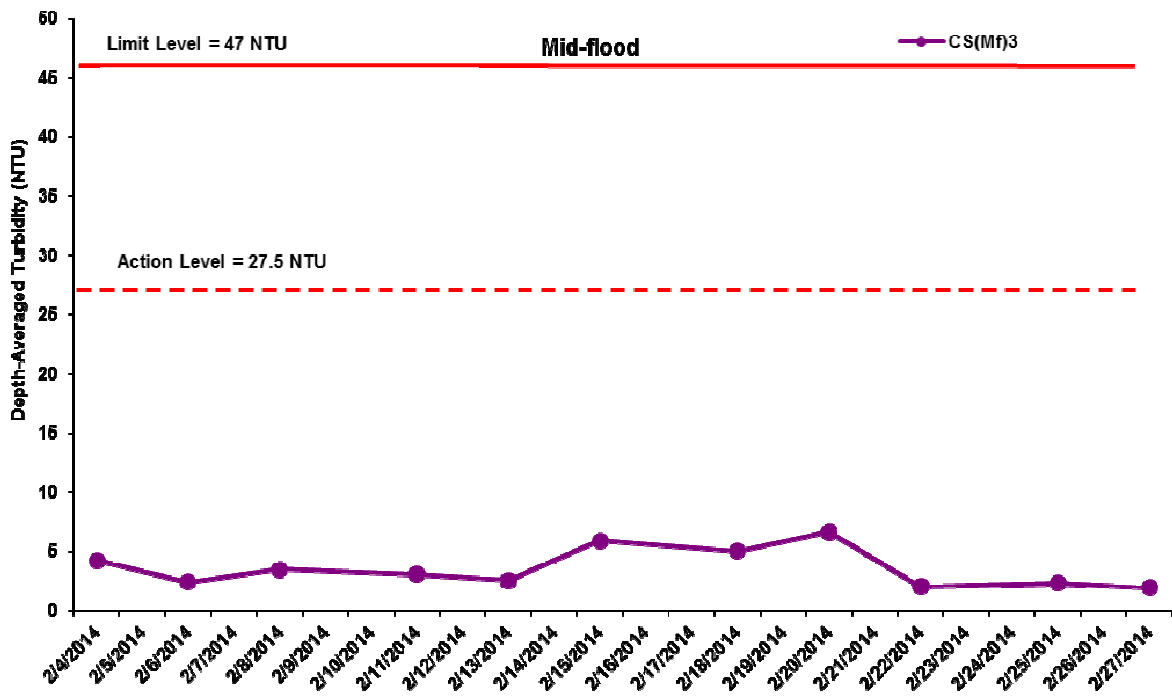


Figure J25 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 to 28 February 2014 at CS(Mf)3 and CS(MF)5.

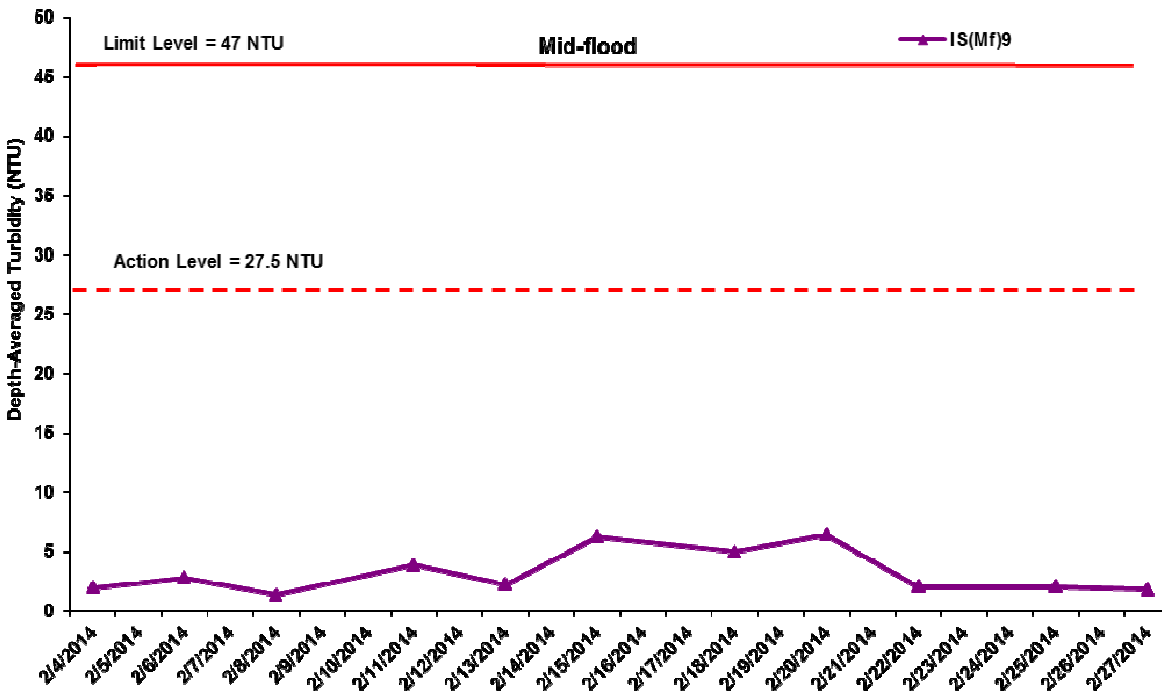
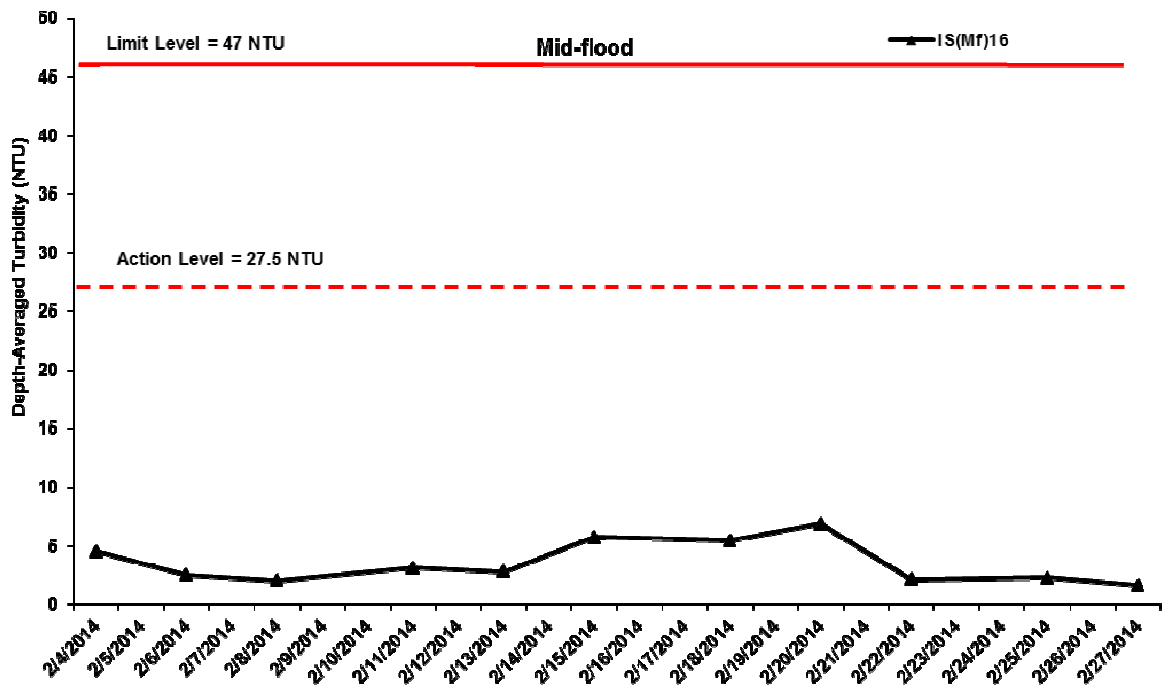


Figure J26 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 to 28 February 2014 at IS(Mf)16 and IS(Mf)9.

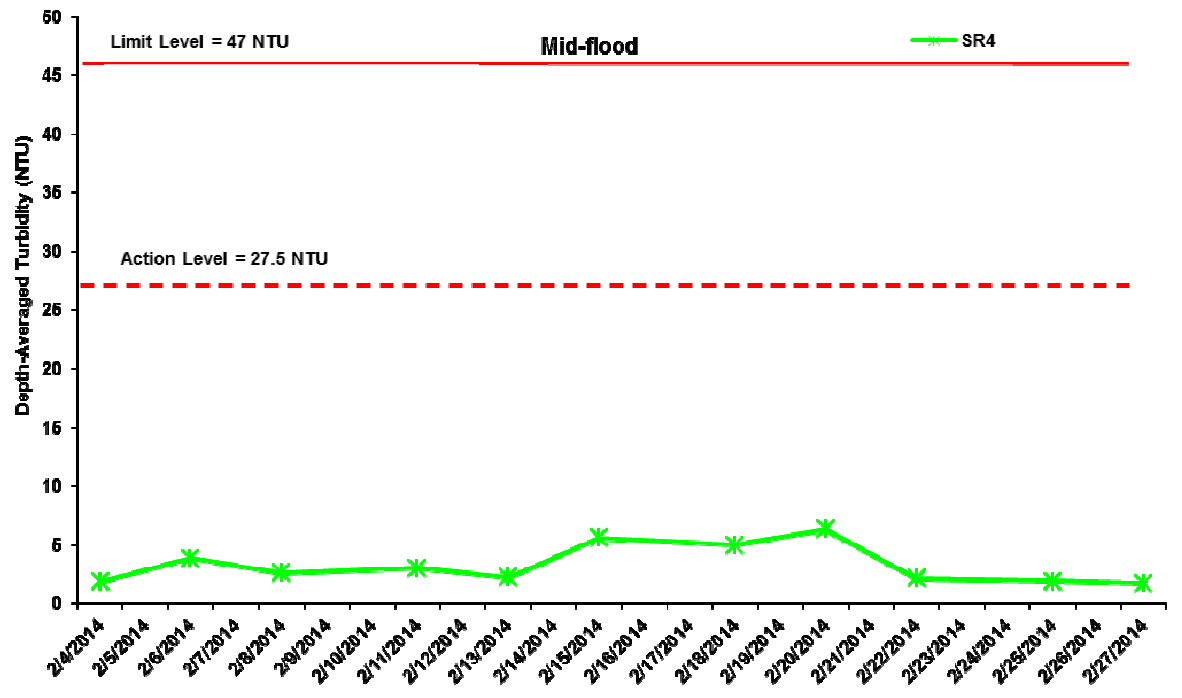
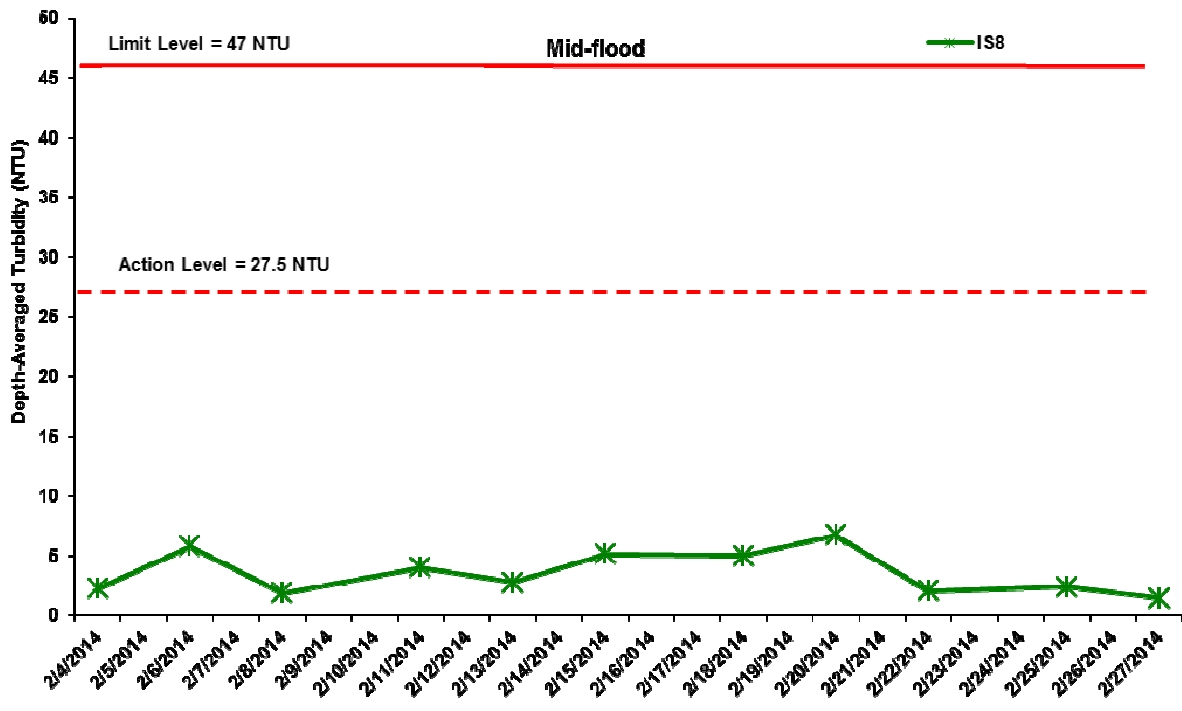


Figure J27 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 to 28 February 2014 at IS8 and SR4.

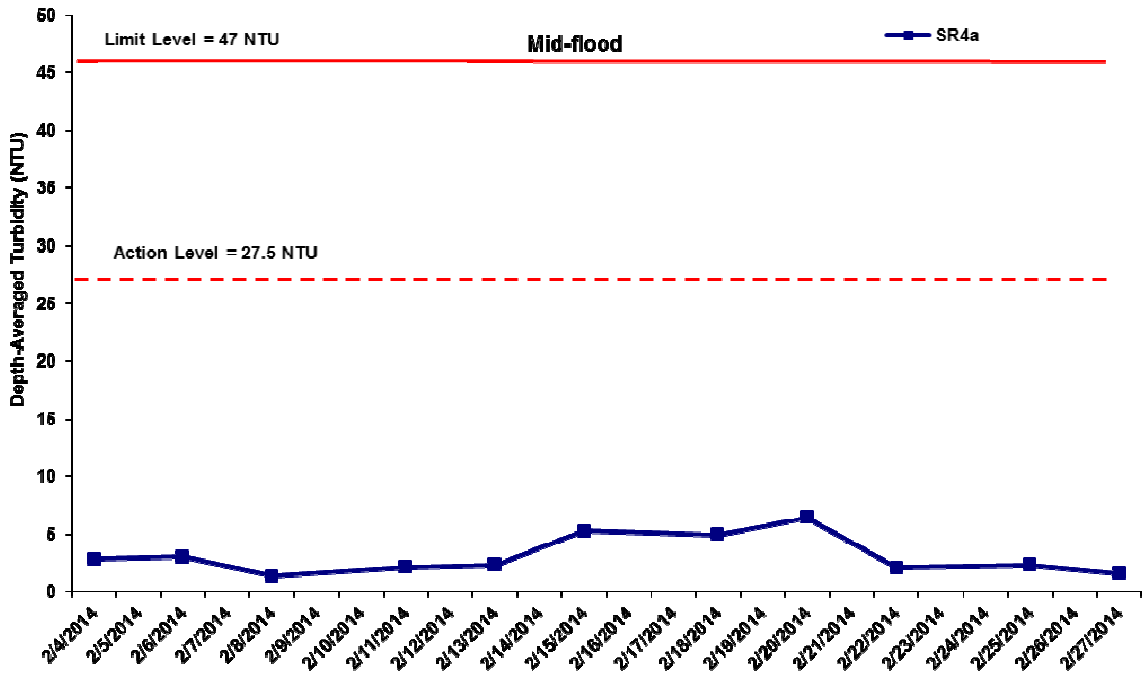


Figure J28 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 to 28 February 2014 at SR4a.

Environmental Resources Management



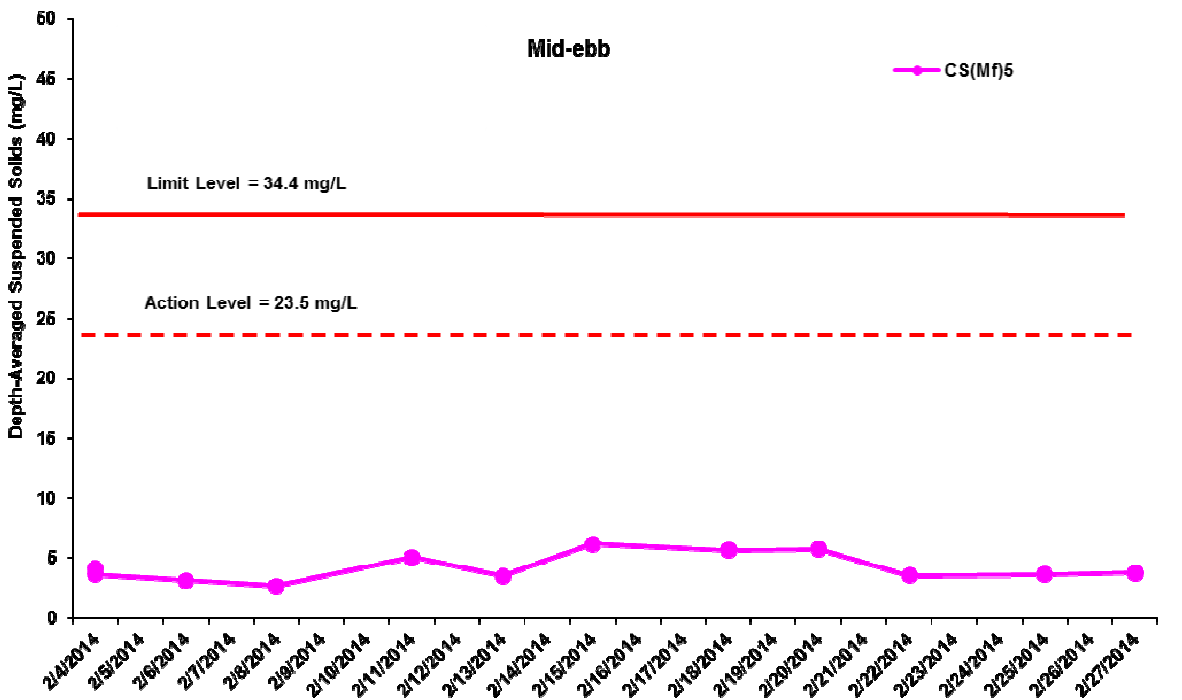
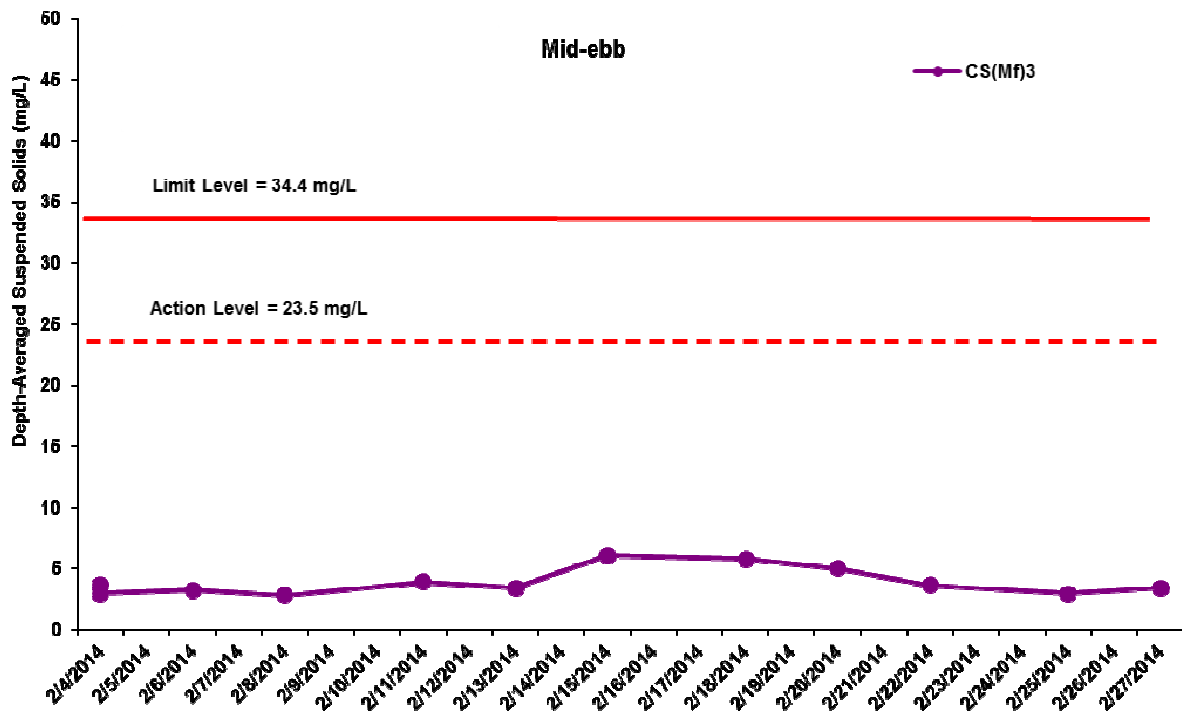


Figure J29 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-ebb tide between 1 to 28 February 2014 at CS(Mf)3 and CS(Mf)5.

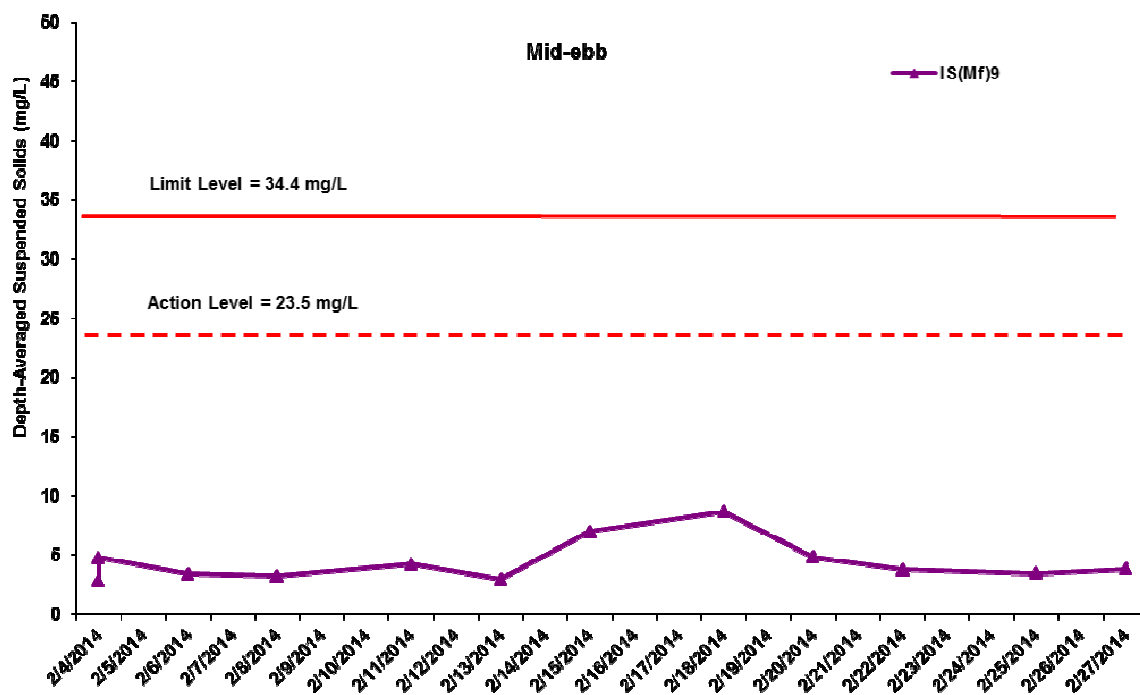
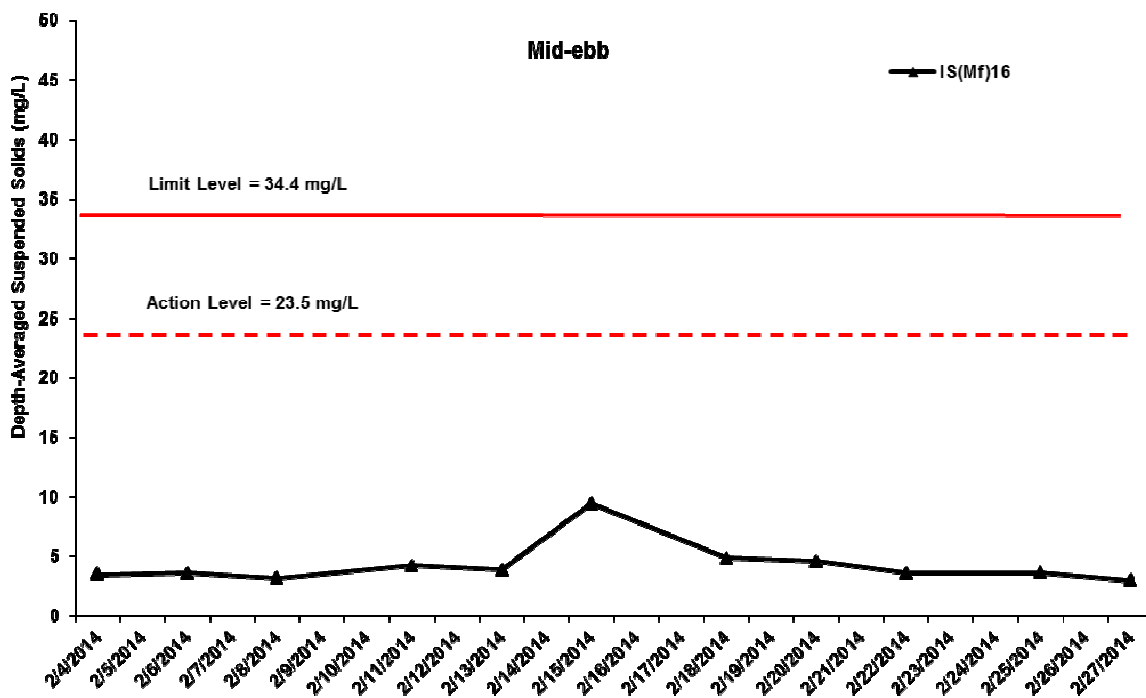


Figure J30 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-ebb tide between 1 to 28 February 2014 at IS(Mf)16 and IS(Mf)9.

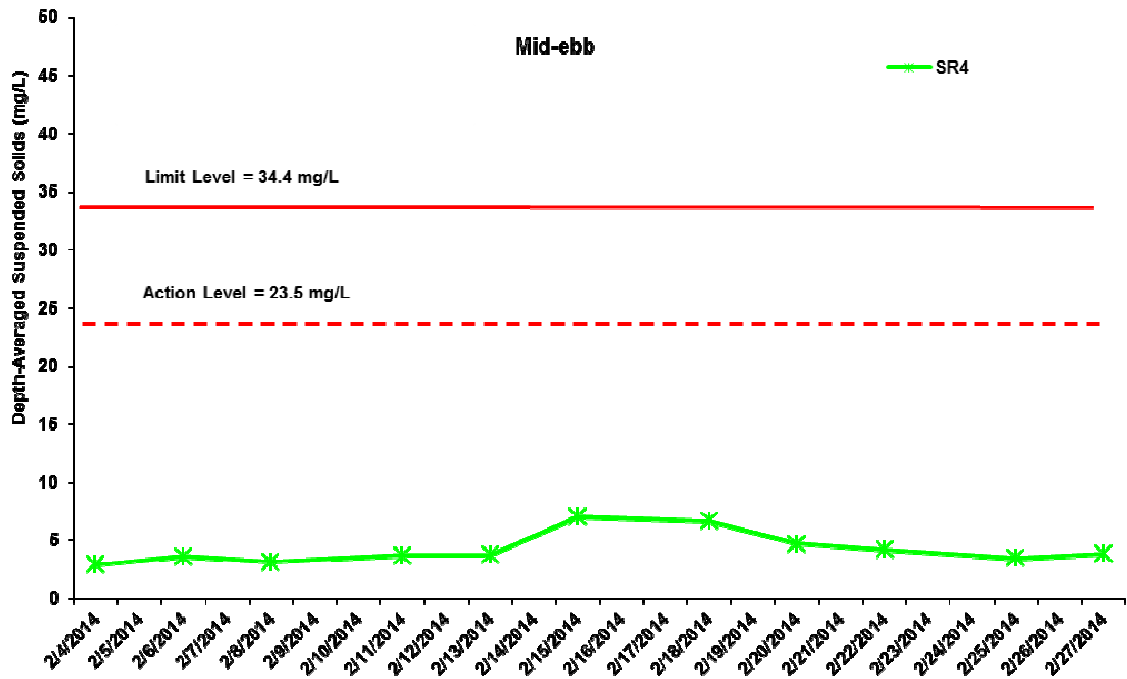
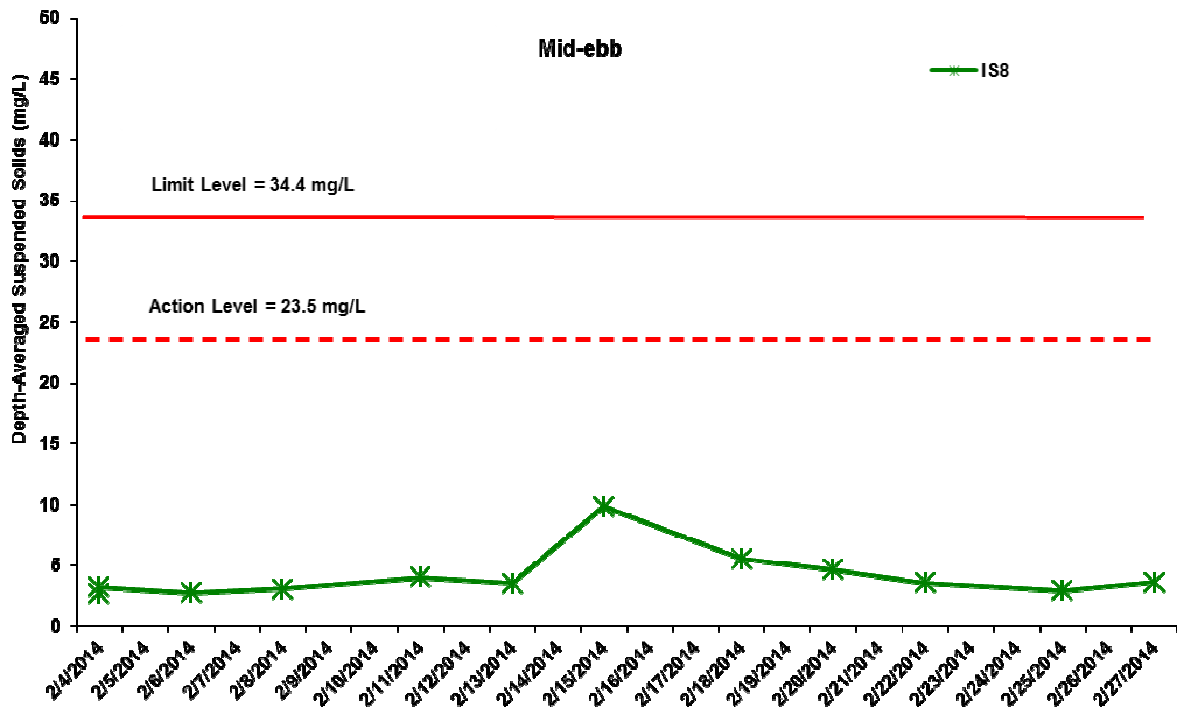


Figure J31 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-ebb tide between 1 to 28 February 2014 at IS8 and SR4.

Environmental  
Resources  
Management





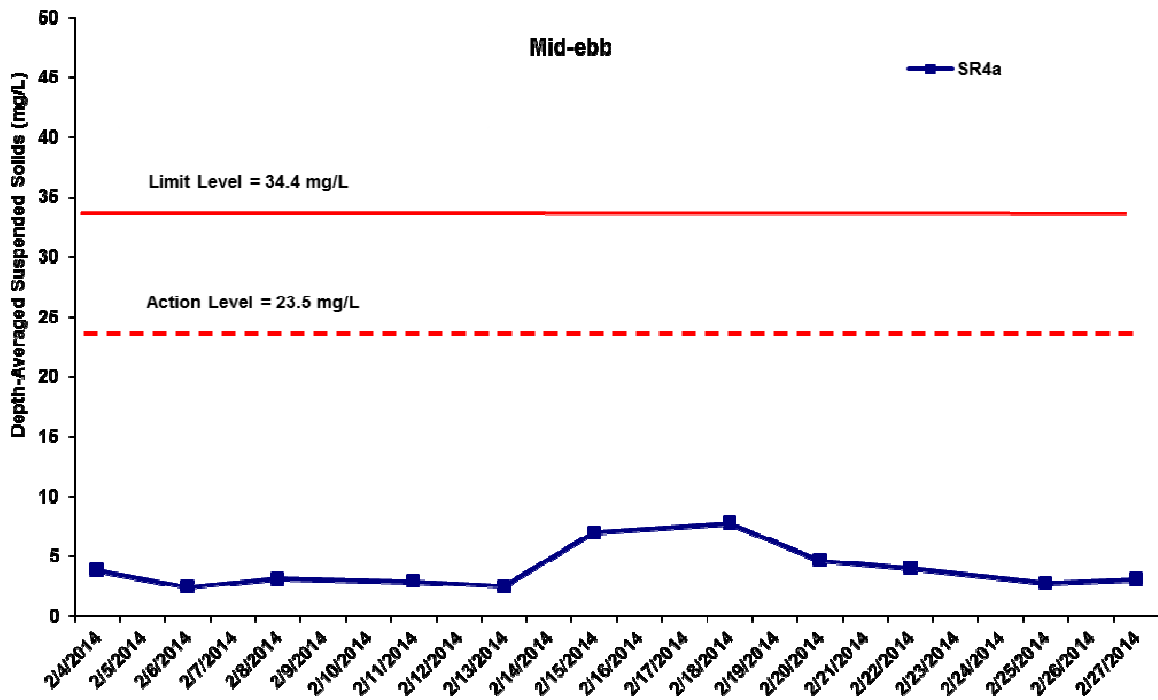


Figure J32 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-ebb tide between 1 to 28 February 2014 at SR4a.

Environmental  
Resources  
Management



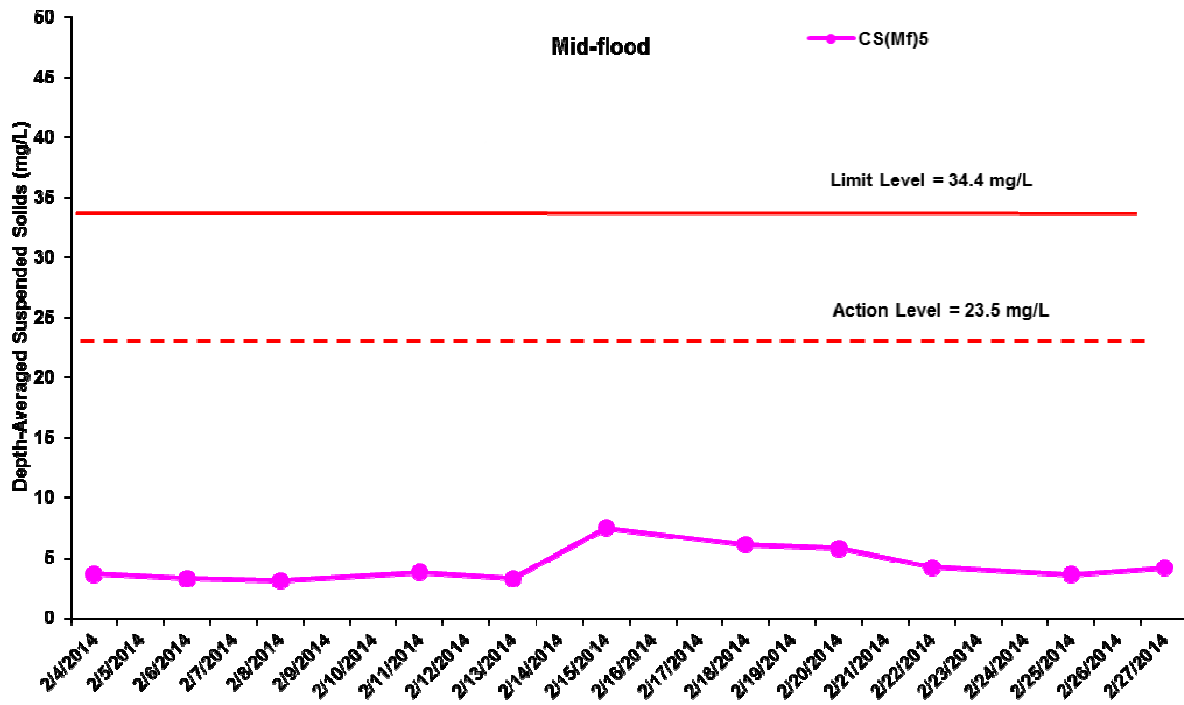
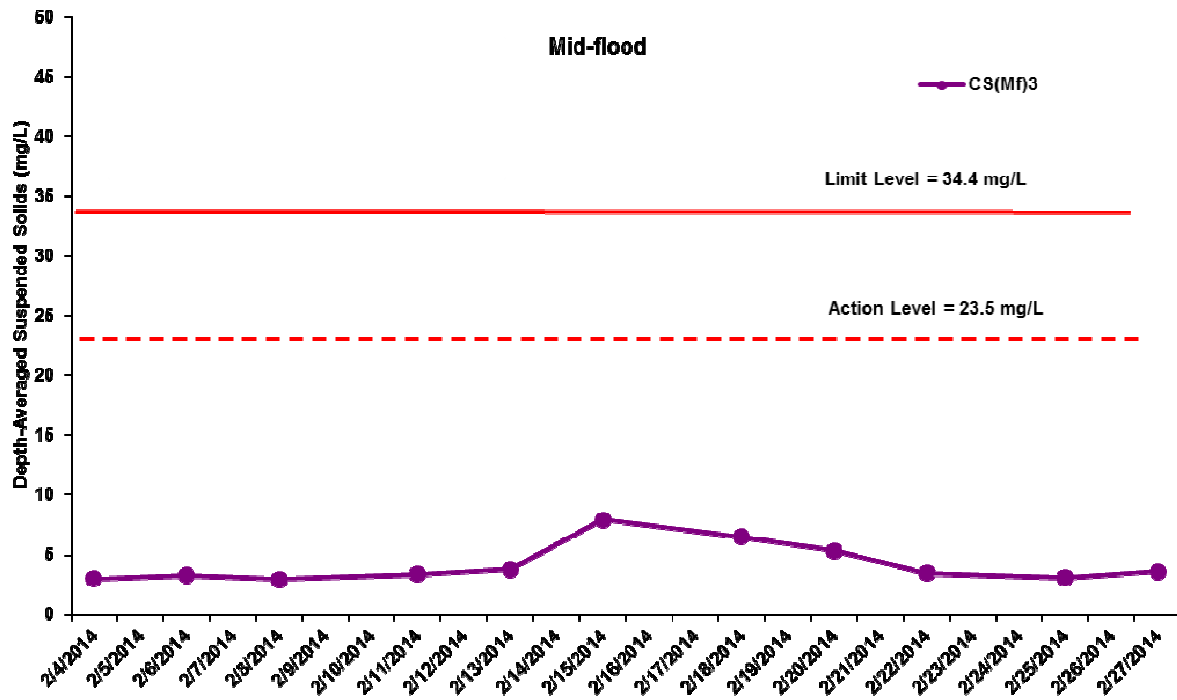


Figure J33 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-flood tide between 1 to 28 February 2014 at CS(Mf)3 and CS(Mf)5.

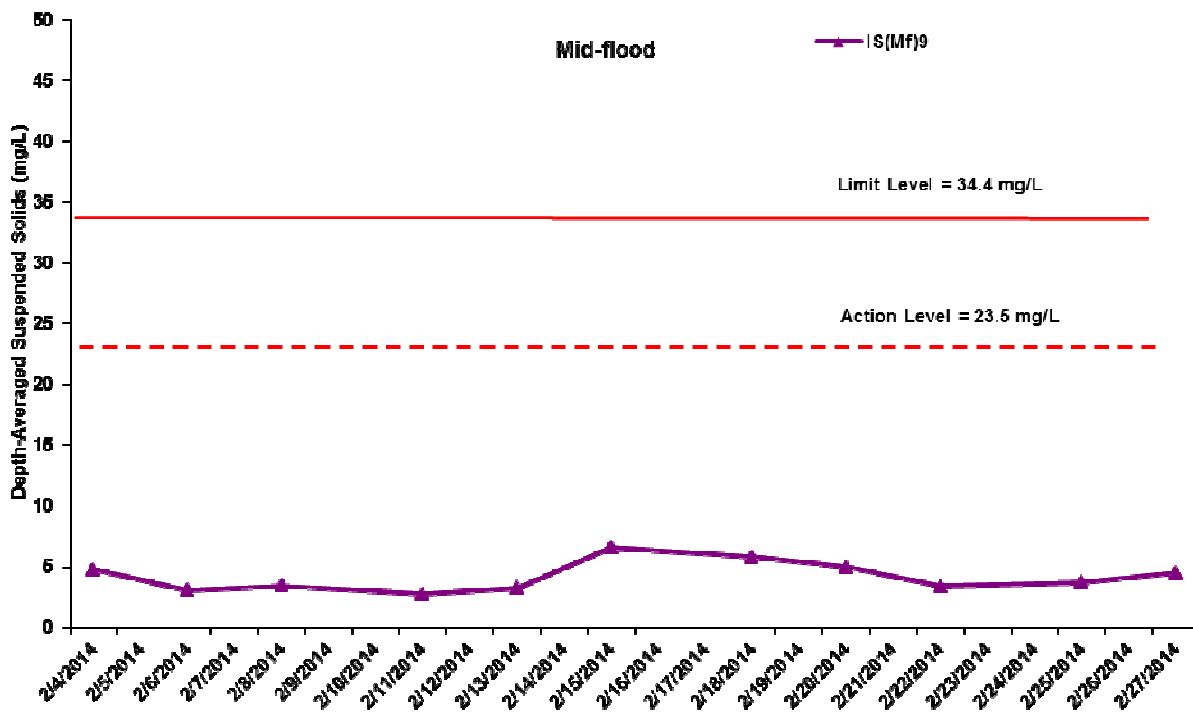
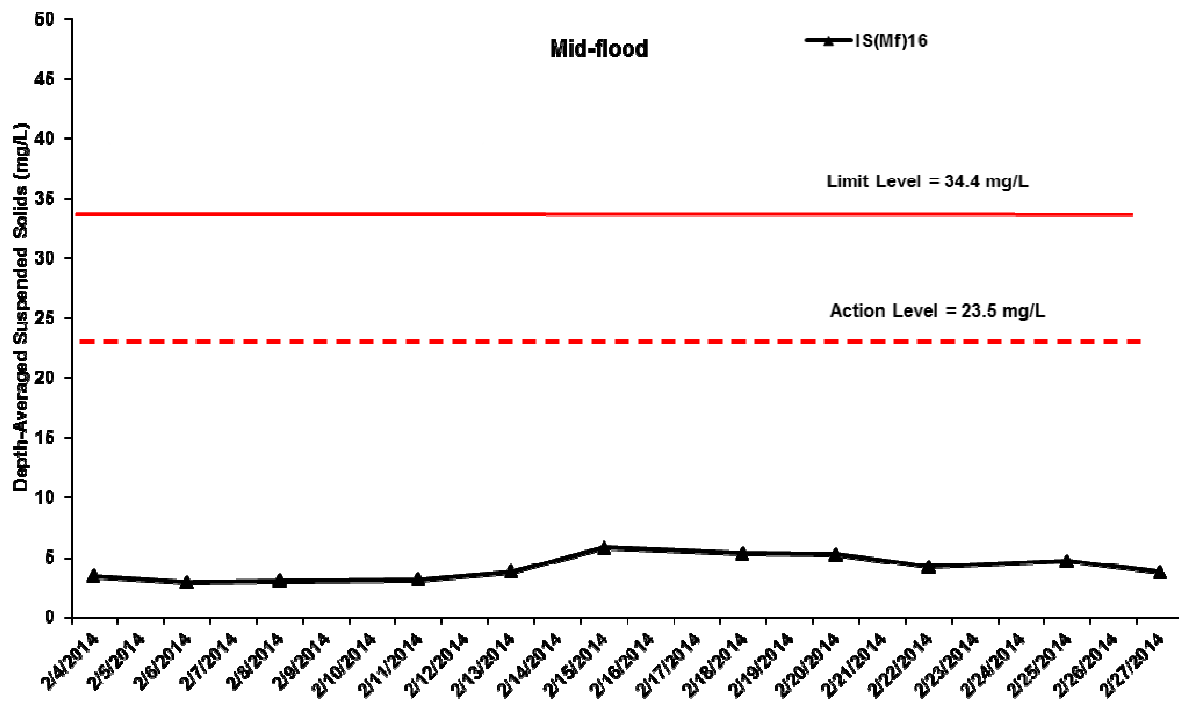


Figure J34 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-flood tide between 1 to 28 February 2014 at IS(Mf)16 and IS(Mf)9 .

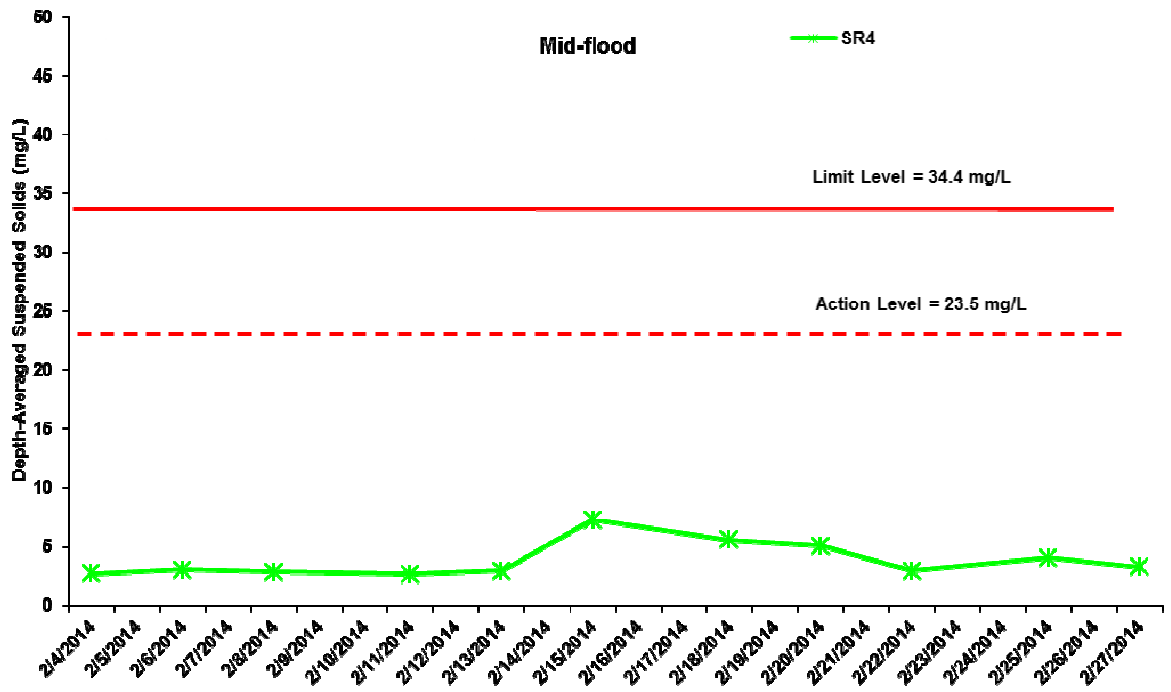
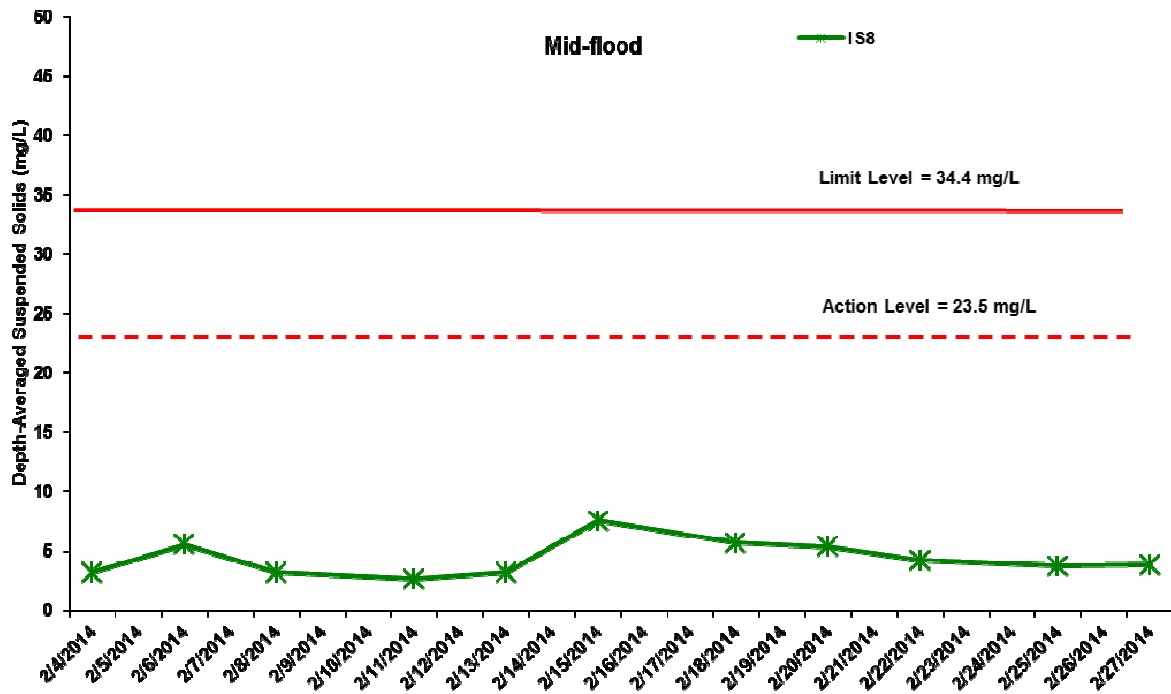


Figure J35 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-flood tide between 1 to 28 February 2014 at IS8 and SR4.

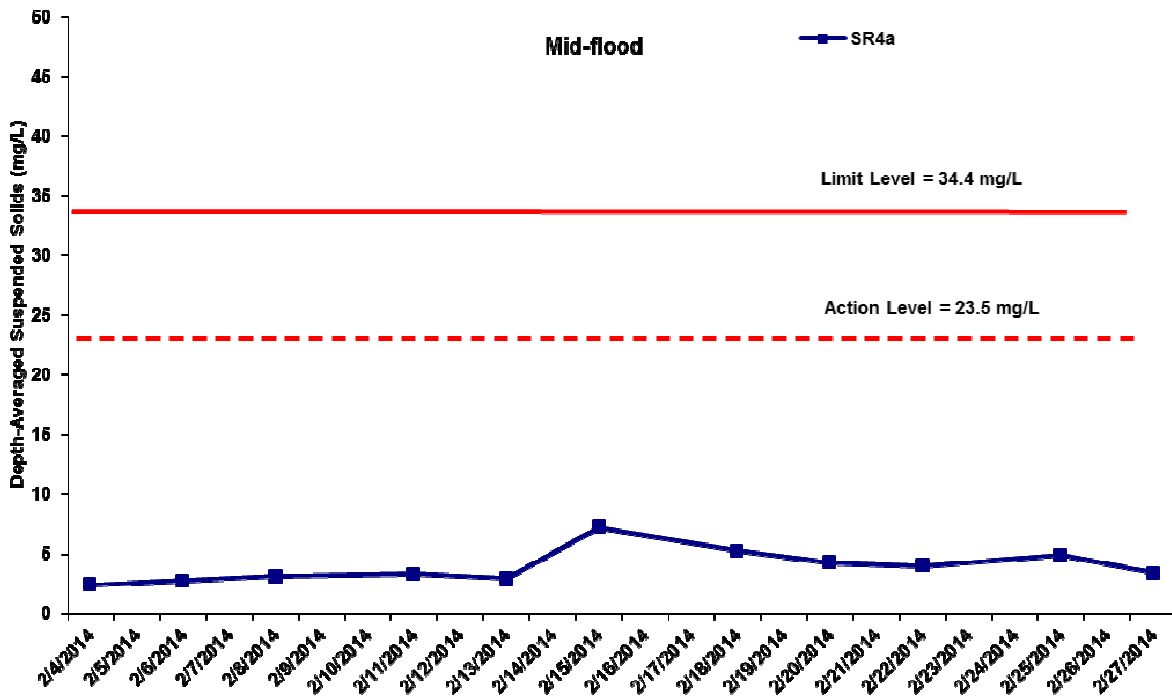


Figure J36 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-flood tide between 1 to 28 February 2014 at SR4a.

Environmental  
Resources  
Management



Appendix K

## Impact Dolphin Monitoring Survey Results

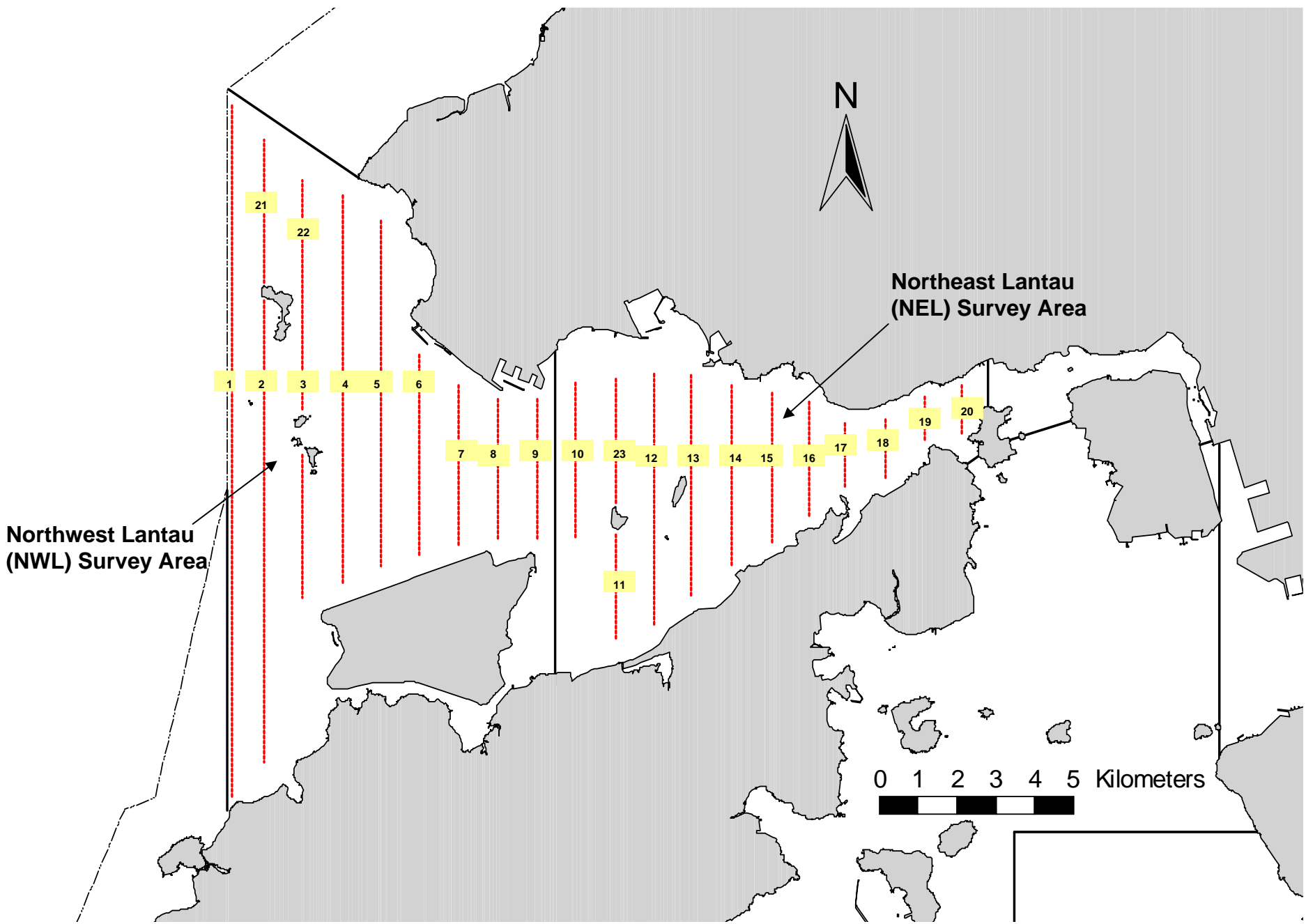


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

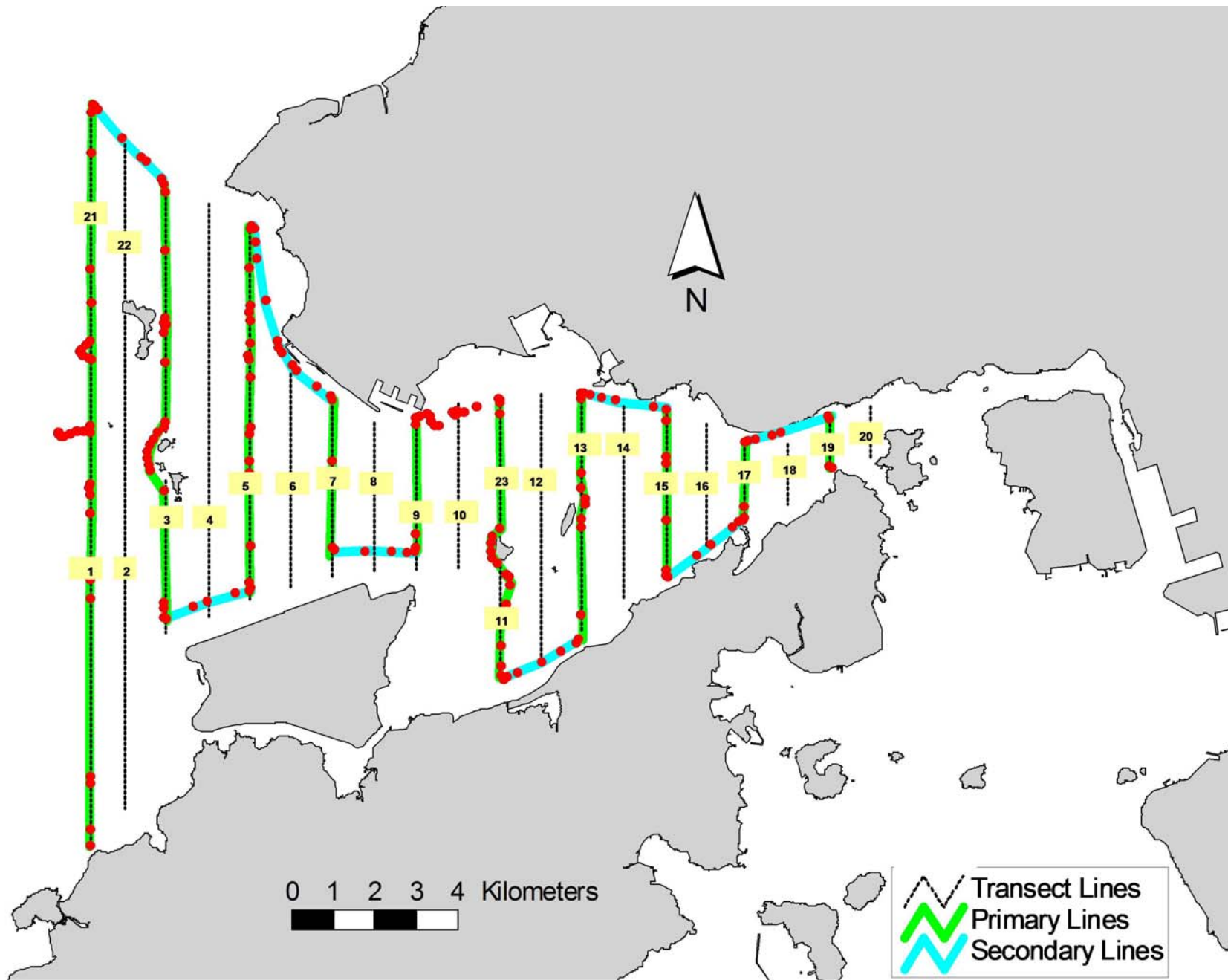


Figure 2. Survey Route on February 6<sup>th</sup>, 2014 (from HKLR03 project)



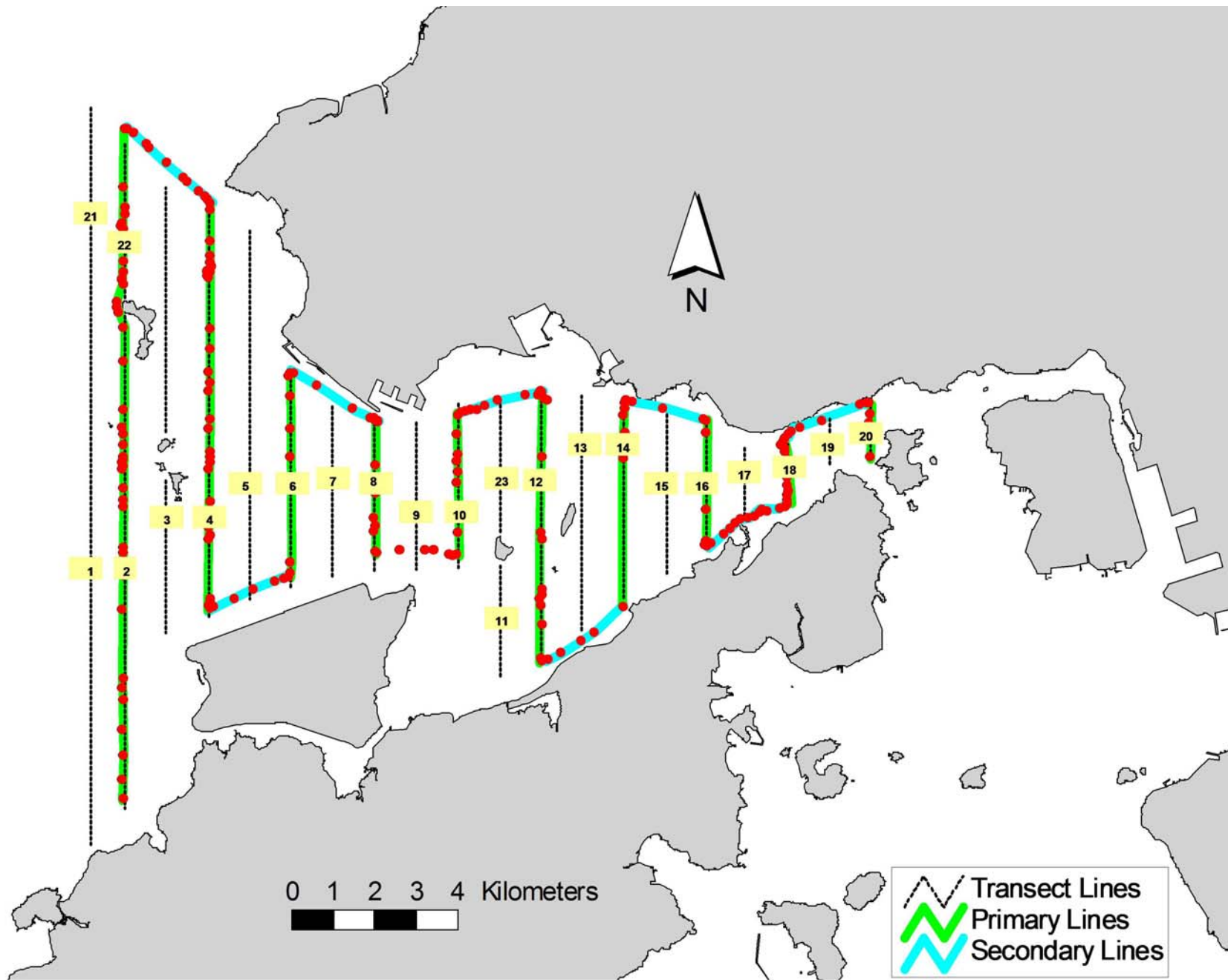


Figure 3. Survey Route on February 12<sup>th</sup>, 2014 (from HKLR03 project)

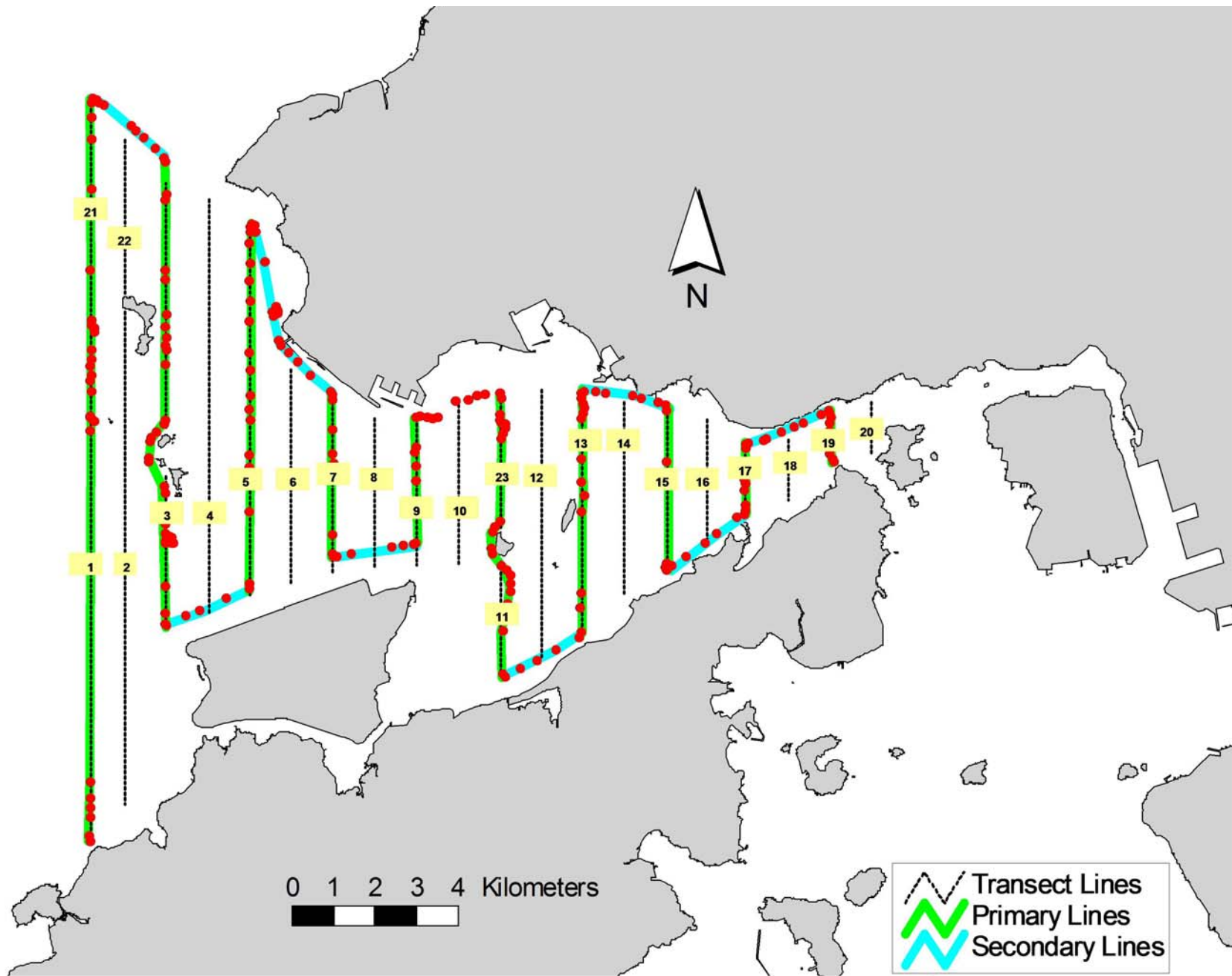


Figure 4. Survey Route on February 14<sup>th</sup>, 2014 (from HKLR03 project)

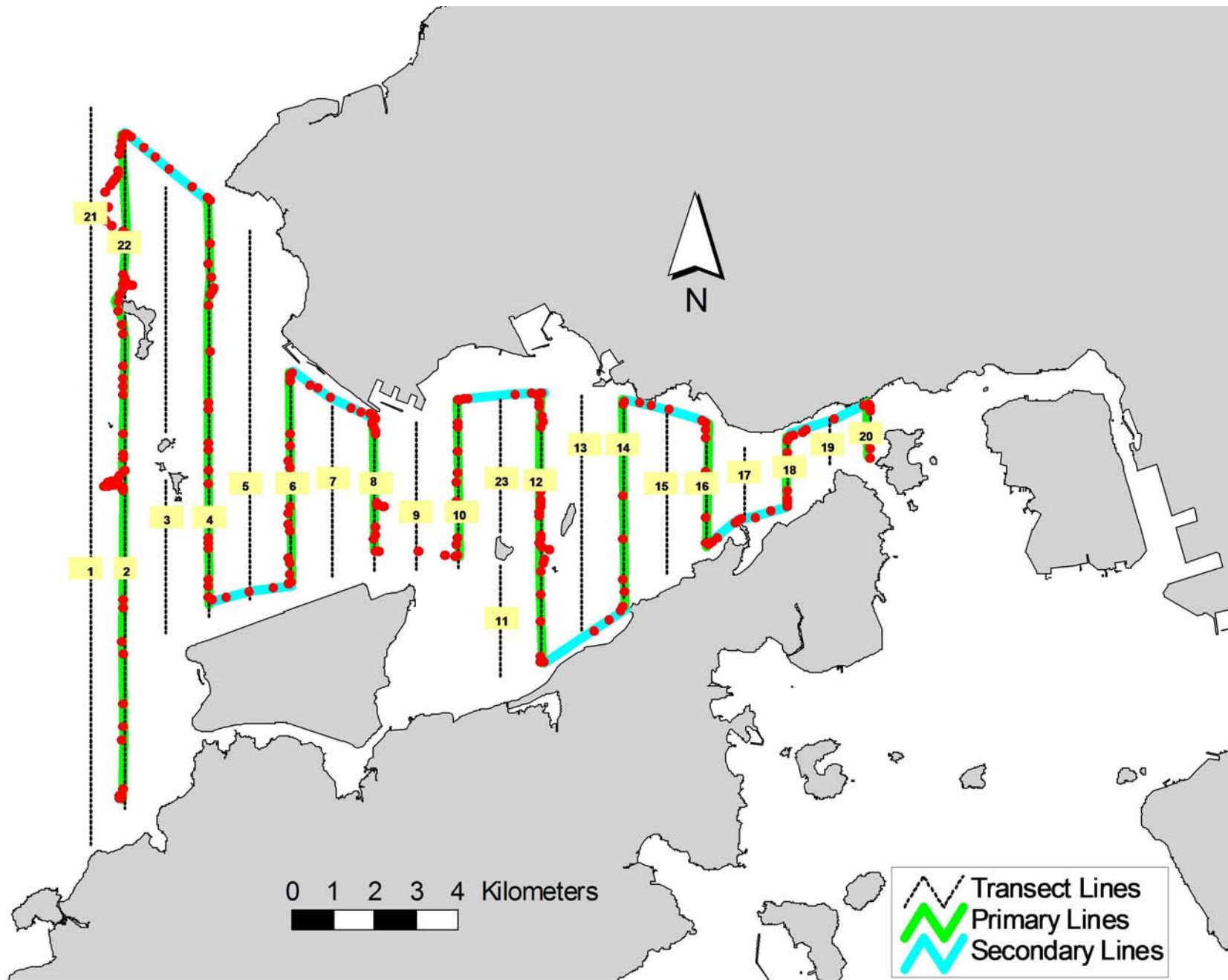


Figure 5. Survey Route on February 20<sup>th</sup>, 2014 (from HKLR03 project)

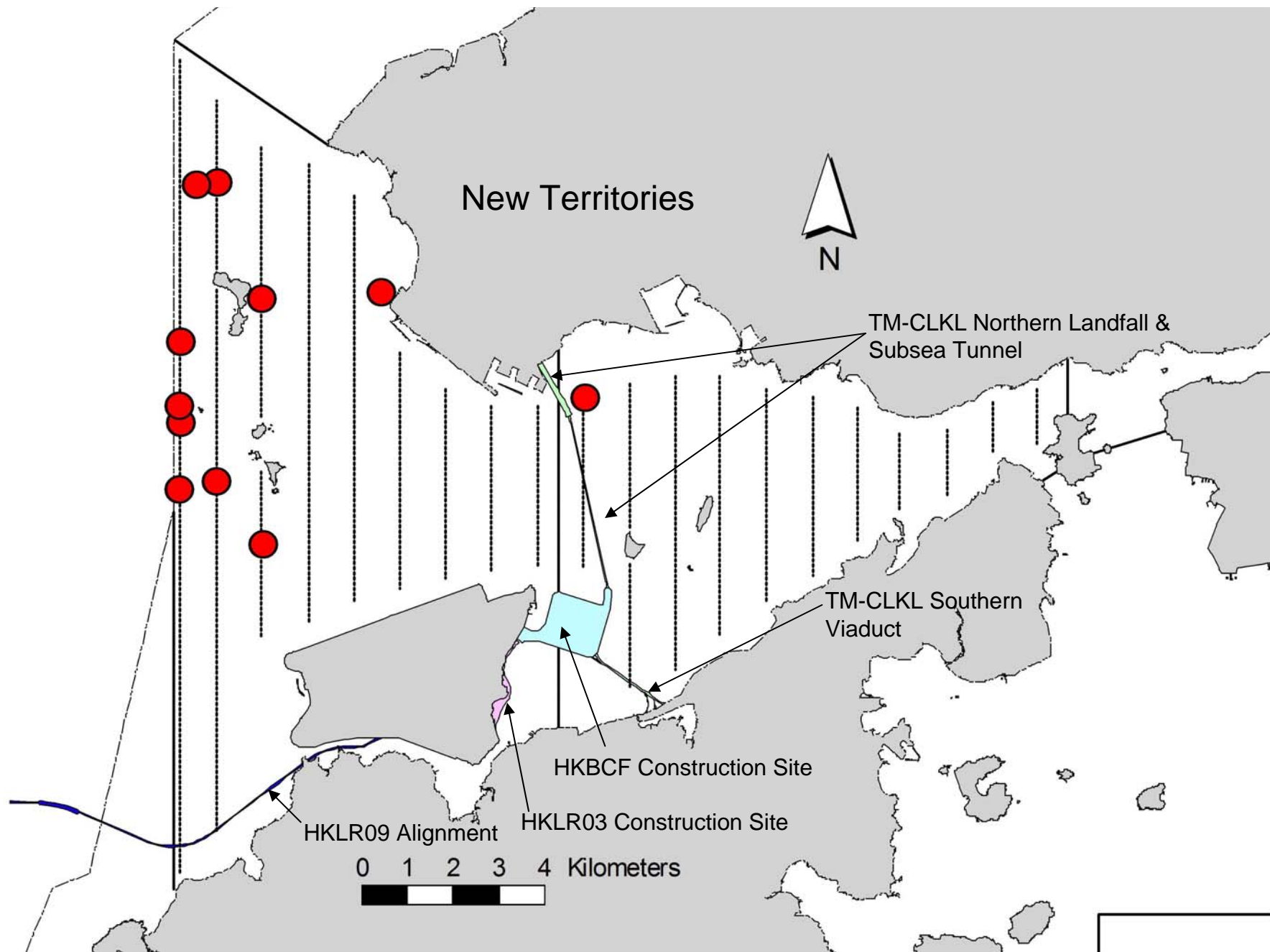


Figure 6. Distribution of Chinese White Dolphin Sightings During February 2014 HKLR03 Monitoring Surveys

## Appendix I. HKLR03 Survey Effort Database (February 2014)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
6-Feb-14	NW LANTAU	1	1.68	WINTER	STANDARD 31516	HKLR	P
6-Feb-14	NW LANTAU	2	35.03	WINTER	STANDARD 31516	HKLR	P
6-Feb-14	NW LANTAU	3	2.90	WINTER	STANDARD 31516	HKLR	P
6-Feb-14	NW LANTAU	2	11.99	WINTER	STANDARD 31516	HKLR	S
6-Feb-14	NW LANTAU	3	1.20	WINTER	STANDARD 31516	HKLR	S
6-Feb-14	NE LANTAU	1	5.59	WINTER	STANDARD 31516	HKLR	P
6-Feb-14	NE LANTAU	2	8.66	WINTER	STANDARD 31516	HKLR	P
6-Feb-14	NE LANTAU	3	2.60	WINTER	STANDARD 31516	HKLR	P
6-Feb-14	NE LANTAU	1	4.45	WINTER	STANDARD 31516	HKLR	S
6-Feb-14	NE LANTAU	2	6.50	WINTER	STANDARD 31516	HKLR	S
12-Feb-14	NE LANTAU	2	13.78	WINTER	STANDARD 31516	HKLR	P
12-Feb-14	NE LANTAU	3	5.91	WINTER	STANDARD 31516	HKLR	P
12-Feb-14	NE LANTAU	1	2.02	WINTER	STANDARD 31516	HKLR	S
12-Feb-14	NE LANTAU	2	5.36	WINTER	STANDARD 31516	HKLR	S
12-Feb-14	NE LANTAU	3	3.53	WINTER	STANDARD 31516	HKLR	S
12-Feb-14	NW LANTAU	2	11.72	WINTER	STANDARD 31516	HKLR	P
12-Feb-14	NW LANTAU	3	15.87	WINTER	STANDARD 31516	HKLR	P
12-Feb-14	NW LANTAU	2	3.67	WINTER	STANDARD 31516	HKLR	S
12-Feb-14	NW LANTAU	3	7.72	WINTER	STANDARD 31516	HKLR	S
14-Feb-14	NE LANTAU	2	11.72	WINTER	STANDARD 31516	HKLR	P
14-Feb-14	NE LANTAU	3	5.58	WINTER	STANDARD 31516	HKLR	P
14-Feb-14	NE LANTAU	2	7.68	WINTER	STANDARD 31516	HKLR	S
14-Feb-14	NE LANTAU	3	2.72	WINTER	STANDARD 31516	HKLR	S
14-Feb-14	NW LANTAU	2	17.02	WINTER	STANDARD 31516	HKLR	P
14-Feb-14	NW LANTAU	3	24.77	WINTER	STANDARD 31516	HKLR	P
14-Feb-14	NW LANTAU	2	9.82	WINTER	STANDARD 31516	HKLR	S
14-Feb-14	NW LANTAU	3	2.18	WINTER	STANDARD 31516	HKLR	S
20-Feb-14	NW LANTAU	3	22.68	WINTER	STANDARD 31516	HKLR	P
20-Feb-14	NW LANTAU	4	6.16	WINTER	STANDARD 31516	HKLR	P
20-Feb-14	NW LANTAU	3	7.31	WINTER	STANDARD 31516	HKLR	S
20-Feb-14	NE LANTAU	2	17.92	WINTER	STANDARD 31516	HKLR	P
20-Feb-14	NE LANTAU	3	2.19	WINTER	STANDARD 31516	HKLR	P
20-Feb-14	NE LANTAU	1	0.97	WINTER	STANDARD 31516	HKLR	S
20-Feb-14	NE LANTAU	2	8.94	WINTER	STANDARD 31516	HKLR	S

## Appendix II. HKLR03 Chinese White Dolphin Sighting Database (February 2014)

(Abbreviations: STG# = Sighting Number; HRD SZ = Dolphin Herd Size; BEAU = Beaufort Sea State; PSD = Perpendicular Distance; BOAT ASSOC. = Fishing Boat Association; P/S: Sighting Made on Primary/Secondary Line)

DATE	STG #	TIME	HRD SZ	AREA	BEAU	PSD	EFFORT	TYPE	NORTHING	EASTING	SEASON	BOAT ASSOC.	P/S
06-Feb-14	1	1040	2	NW LANTAU	2	895	ON	HKLR	822535	804645	WINTER	HANG	P
06-Feb-14	2	1049	4	NW LANTAU	2	515	ON	HKLR	823908	804658	WINTER	NONE	P
06-Feb-14	3	1109	2	NW LANTAU	2	422	ON	HKLR	825591	804672	WINTER	NONE	P
06-Feb-14	4	1204	3	NW LANTAU	1	888	ON	HKLR	826473	806445	WINTER	NONE	P
06-Feb-14	5	1428	4	NE LANTAU	2	ND	OFF	HKLR	824423	813528	WINTER	NONE	
12-Feb-14	1	1449	1	NW LANTAU	2	290	ON	HKLR	828878	805462	WINTER	NONE	P
14-Feb-14	1	1237	1	NW LANTAU	2	ND	OFF	HKLR	826601	809051	WINTER	NONE	
14-Feb-14	2	1348	4	NW LANTAU	3	133	ON	HKLR	821401	806466	WINTER	NONE	P
14-Feb-14	3	1525	1	NW LANTAU	3	112	ON	HKLR	824262	804649	WINTER	NONE	P
20-Feb-14	1	1046	7	NW LANTAU	3	72	ON	HKLR	822688	805449	WINTER	NONE	P
20-Feb-14	2	1135	7	NW LANTAU	3	648	ON	HKLR	828813	805029	WINTER	NONE	P

**Appendix III. Individual dolphins identified during HKLR03 monitoring surveys in February 2014**

<b>ID#</b>	<b>DATE</b>	<b>STG#</b>	<b>AREA</b>
CH34	20/02/14	1	NW LANTAU
EL01	06/02/14	5	NE LANTAU
NL24	20/02/14	1	NW LANTAU
NL93	20/02/14	2	NW LANTAU
NL98	20/02/14	1	NW LANTAU
NL120	06/02/14	5	NE LANTAU
NL136	20/02/14	2	NW LANTAU
NL139	20/02/14	1	NW LANTAU
NL165	20/02/14	1	NW LANTAU
NL202	06/02/14	3	NW LANTAU
NL210	14/02/14	1	NW LANTAU
NL259	20/02/14	2	NW LANTAU
NL260	20/02/14	2	NW LANTAU
NL261	06/02/14	5	NE LANTAU
NL284	20/02/14	1	NW LANTAU
NL286	06/02/14	3	NW LANTAU
NL296	20/02/14	2	NW LANTAU



Appendix IV. Photographs of Identified Individual Dolphins in February 2014 (HKLR03)





Appendix L

## Event Action Plan

*Appendix L1 Event/ Action Plan for Air Quality*

EVENT	ACTION			
	ET <sup>(1)</sup>	IEC <sup>(1)</sup>	SOR <sup>(1)</sup>	Contractor
<b>Action Level</b>				
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>1. Identify the source.</li> <li>2. Inform the IEC and the SOR.</li> <li>3. Repeat measurement to confirm finding.</li> <li>4. Increase monitoring frequency to daily.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by the ET.</li> <li>2. Check Contractor's working method.</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify Contractor.</li> </ol>	<ol style="list-style-type: none"> <li>1. Rectify any unacceptable practice</li> <li>2. Amend working methods if appropriate</li> </ol>
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>1. Identify the source.</li> <li>2. Inform the IEC and the SOR.</li> <li>3. Repeat measurements to confirm findings.</li> <li>4. Increase monitoring frequency to daily.</li> <li>5. Discuss with the IEC and the Contractor on remedial actions required.</li> <li>6. If exceedance continues, arrange meeting with the IEC and the SOR.</li> <li>7. If exceedance stops, cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by the ET.</li> <li>2. Check the Contractor's working method.</li> <li>3. Discuss with the ET and the Contractor on possible remedial measures.</li> <li>4. Advise the SOR on the effectiveness of the proposed remedial measures.</li> <li>5. Supervisor implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing.</li> <li>2. Notify the Contractor.</li> <li>3. Ensure remedial measures properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Submit proposals for remedial actions to IEC within 3 working days of notification</li> <li>2. Implement the agreed proposals</li> <li>3. Amend proposal if appropriate</li> </ol>

*Appendix L2 Event/ Action Plan for Construction Noise*

ACTION					
EVENT	ET	IEC	SOR	Contractor	
Action Level	<ol style="list-style-type: none"> <li>1. Notify the IEC and the Contractor.</li> <li>2. Carry out investigation.</li> <li>3. Report the results of investigation to the IEC and the Contractor.</li> <li>4. Discuss with the Contractor and formulate remedial measures.</li> <li>5. Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	<ol style="list-style-type: none"> <li>1. Review the analysed results submitted by the ET.</li> <li>2. Review the proposed remedial measures by the Contractor and advise the SOR accordingly.</li> <li>3. Supervise the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing.</li> <li>2. Notify the Contractor.</li> <li>3. Require the Contractor to propose remedial measures for the analysed noise problem.</li> <li>4. Ensure remedial measures are properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Submit noise mitigation proposals to IEC</li> <li>2. Implement noise mitigation proposals</li> </ol>	
Limit Level	<ol style="list-style-type: none"> <li>1. Notify the IEC, the SOR, the DEP and the Contractor.</li> <li>2. Identify the source.</li> <li>3. Repeat measurement to confirm findings.</li> <li>4. Increase monitoring frequency.</li> <li>5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented.</li> <li>6. Inform the IEC, the SOR and the DEP the causes &amp; actions taken for the exceedances.</li> <li>7. Assess effectiveness of the Contractor's remedial actions and keep the IEC, the DEP and the SOR informed of the results.</li> <li>8. If exceedance stops, cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss amongst the SOR, the ET and the Contractor on the potential remedial actions.</li> <li>2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the SOR accordingly.</li> <li>3. Supervise the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing.</li> <li>2. Notify the Contractor.</li> <li>3. Require the Contractor to propose remedial measures for the analysed noise problem.</li> <li>4. Ensure remedial measures are properly implemented.</li> <li>5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated.</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance</li> <li>2. Submit proposals for remedial actions to IEC within 3 working days of notification</li> <li>3. Implement the agreed proposals</li> <li>4. Resubmit proposals if problem still not under control</li> <li>5. Stop the relevant activity of works as determined by the SOR until the exceedance is abated.</li> </ol>	

**Appendix L3**     *Event/ Action Plan for Water Quality*

<b>Event</b>	<b>ET Leader</b>	<b>IEC</b>	<b>SOR</b>	<b>Contractor</b>
Action level being exceeded by one sampling day	Repeat in situ measurement on next day of exceedance to confirm findings;  Identify source(s) of impact;  Inform IEC, contractor and SOR;  Check monitoring data, all plant, equipment and Contractor's working methods.	Check monitoring data submitted by ET and Contractor's working methods.	Confirm receipt of notification of non-compliance in writing;  Notify Contractor.	Inform the SOR and confirm notification of the non-compliance in writing;  Rectify unacceptable practice;  Amend working methods if appropriate.
Action level being exceeded by two or more consecutive sampling days	Repeat measurement on next day of exceedance to confirm findings;  Identify source(s) of impact;  Inform IEC, contractor, SOR and EPD;  Check monitoring data, all plant, equipment and Contractor's working methods;  Discuss mitigation measures with IEC, SOR and Contractor;  Ensure mitigation measures are implemented;  Increase the monitoring frequency to daily until no exceedance of Action level;	Check monitoring data submitted by ET and Contractor's working method;  Discuss with ET and Contractor on possible remedial actions;  Review the proposed mitigation measures submitted by Contractor and advise the SOR accordingly;  Supervise the implementation of mitigation measures.	Discuss with IEC on the proposed mitigation measures;  Ensure mitigation measures are properly implemented;  Assess the effectiveness of the implemented mitigation measures.	Inform the Supervising Officer and confirm notification of the non-compliance in writing;  Rectify unacceptable practice;  Check all plant and equipment and consider changes of working methods;  Submit proposal of additional mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR;  Implement the agreed mitigation measures.
Limit level being exceeded by one sampling day	Repeat measurement on next day of exceedance to confirm findings;  Identify source(s) of impact;  Inform IEC, contractor, SOR and EPD;	Check monitoring data submitted by ET and Contractor's working method;  Discuss with ET and Contractor on possible remedial actions;	Confirm receipt of notification of failure in writing;  Discuss with IEC, ET and Contractor on the proposed mitigation measures;	Inform the SOR and confirm notification of the non-compliance in writing;  Rectify unacceptable practice;  Check all plant and equipment

Event	ET Leader	IEC	SOR	Contractor
Limit level being exceeded by two or more consecutive sampling days	Check monitoring data, all plant, equipment and Contractor's working methods;	Review the proposed mitigation measures submitted by Contractor and advise the SOR accordingly.	Request Contractor to review the working methods.	and consider changes of working methods;
	Discuss mitigation measures with IEC, SOR and Contractor;			Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR.
	Repeat measurement on next day of exceedance to confirm findings;	Check monitoring data submitted by ET and Contractor's working method;	Discuss with IEC, ET and Contractor on the proposed mitigation measures;	Take immediate action to avoid further exceedance;
	Identify source(s) of impact;	Discuss with ET and Contractor on possible remedial actions;		Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR;
	Inform IEC, contractor, SOR and EPD;			Implement the agreed mitigation measures;
	Check monitoring data, all plant, equipment and Contractor's working methods;	Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the SOR accordingly;	Request Contractor to critically review the working methods;	Resubmit proposals of mitigation measures if problem still not under control;
	Discuss mitigation measures with IEC, SOR and Contractor;	Supervise the implementation of mitigation measures.	Make agreement on the mitigation measures to be implemented;	As directed by the Supervising Officer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level.
	Ensure mitigation measures are implemented;		Ensure mitigation measures are properly implemented;	
	Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days;		Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level.	

**Appendix L4 Implementation of Event-Action Plan for Dolphin Monitoring**

<b>Event</b>	<b>ET Leader</b>	<b>IEC</b>	<b>SOR</b>	<b>Contractor</b>
Action Level	<ol style="list-style-type: none"> <li>1. Repeat statistical data analysis to confirm findings;</li> <li>2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&amp;A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences;</li> <li>3. Identify source(s) of impact;</li> <li>4. Inform the IEC, SOR and Contractor;</li> <li>5. Check monitoring data.</li> <li>6. Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET and Contractor;</li> <li>2. Discuss monitoring results and findings with the ET and the Contractor.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss monitoring with the IEC and any other measures proposed by the ET;</li> <li>2. If SOR is satisfied with the proposal of any other measures, SOR to signify the agreement in writing on the measures to be implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Inform the SOR and confirm notification of the non-compliance in writing;</li> <li>2. Discuss with the ET and the IEC and propose measures to the IEC and the SOR;</li> <li>3. Implement the agreed measures.</li> </ol>

Event	ET Leader	IEC	SOR	Contractor
Limit Level	<ol style="list-style-type: none"> <li>1. Repeat statistical data analysis to confirm findings;</li> <li>2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&amp;A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences;</li> <li>3. Identify source(s) of impact;</li> <li>4. Inform the IEC, ER/SOR and Contractor of findings;</li> <li>5. Check monitoring data;</li> <li>6. Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary;</li> <li>7. If ET proves that the source of impact is caused by any of the construction activity by the works contract, ET to arrange a meeting to discuss with IEC, ER/SOR and Contractor the necessity of additional dolphin monitoring and/or any other potential mitigation measures (e.g., consider to modify the perimeter silt curtain or consider to control/temporarily stop relevant construction activity etc.) and submit to IEC a proposal of additional dolphin monitoring and/or mitigation measures where necessary.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET and Contractor;</li> <li>2. Discuss monitoring results and findings with the ET and the Contractor;</li> <li>3. Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures;</li> <li>4. Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise ER/SOR of the results and findings accordingly;</li> <li>5. Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise ER/SOR the results and findings accordingly.</li> </ol>	<ol style="list-style-type: none"> <li>1. Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures;</li> <li>2. If ER/SOR is satisfied with the proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, ER/SOR to signify the agreement in writing on such proposals and any other mitigation measures;</li> <li>3. Supervise the implementation of additional monitoring and/or any other mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Inform the ER/SOR and confirm notification of the non-compliance in writing;</li> <li>2. Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures;</li> <li>3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary;</li> <li>4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures.</li> </ol>



*Appendix L5 Event and Action Plan on Dolphin Acoustic Behaviour*

EVENT	ACTION			
	ET Leader	IEC	SO	Contractor
<u>Action Level</u>				
With the numerical values presented in <i>Table 5.7</i> , when any of the response variable for dolphin acoustic behaviour recorded in the construction phase monitoring is 20% lower or higher than that recorded in the baseline monitoring (see <i>Table 5.8</i> ), or when there is a difference of 20% in dolphin acoustic signal detection at nighttime period at Site C1 only, the action level should be triggered	<ol style="list-style-type: none"> <li>1. Repeat statistical data analysis to confirm findings;</li> <li>2. Review all available and relevant data to ascertain if differences are as a result of natural variation or seasonal differences;</li> <li>3. Identify source(s) of impact;</li> <li>4. Inform the IEC, SO and Contractor;</li> <li>5. Check monitoring data;</li> <li>6. Carry out audit to ensure all dolphin protective measures are implemented fully and additional measures be proposed if necessary</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET and Contractor;</li> <li>2. Discuss monitoring with the ET and the Contractor;</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with the IEC the repeat monitoring and any other measures proposed by the ET;</li> <li>2. Make agreement on measures to be implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Inform the SO and confirm notification of the non-compliance in writing;</li> <li>2. Discuss with the ET and the IEC and propose measures to the IEC and the SO;</li> <li>3. Implement the agreed measures.</li> </ol>

EVENT	ACTION			
	ET Leader	IEC	SO	Contractor
<p><u>Limit Level</u></p> <p>With the numerical values presented in Table 5.7, when any of the response variable for dolphin acoustic behaviour recorded in the construction phase monitoring is 40% lower or higher than that recorded in the baseline monitoring (see Table 5.8), or when there is a difference of 40% in dolphin acoustic signal detection at nighttime at Site C1 only, the limit level should be triggered</p>	<ol style="list-style-type: none"> <li>1. Repeat statistical data analysis to confirm findings;</li> <li>2. Review all available and relevant data to ascertain if differences are as a result of natural variation or seasonal differences;</li> <li>3. Identify source(s) of impact;</li> <li>4. Inform the IEC, SO and Contractor;</li> <li>5. Check monitoring data;</li> <li>6. Carry out audit to ensure all dolphin protective measures are implemented fully and additional measures be proposed if necessary</li> <li>7. Discuss additional dolphin monitoring and any other potential mitigation measures (eg consider to temporarily stop relevant portion of construction activity) with the IEC and Contractor.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET and Contractor;</li> <li>2. Discuss monitoring with the ET and the Contractor;</li> <li>3. Review proposals for additional monitoring and any other measures submitted by the Contractor and advise ER accordingly.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with the IEC the repeat monitoring and any other measures proposed by the ET;</li> <li>2. Make agreement on measures to be implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Inform the SO and confirm notification of the non-compliance in writing;</li> <li>2. Discuss with the ET and the IEC and propose measures to the IEC and the SO;</li> <li>3. Implement the agreed measures.</li> </ol>

Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker, SO – Supervising Office

Appendix M

## Monthly Summary of Waste Flow Table

Contract No. : HY/2012/07

Tuen Mun Chek Lap Kok Link – Southern Connection Viaduct Section

Monthly Summary Waste Flow Table for 2014 (Year)

Month\Material	Actual Quantities of Inert C&D Materials Generation						Actual Quantities of C&D wastes Generation					Actual Quantities of Recyclables Generation			
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fills	Imported Fill	Marine Sediment, Cat. L	Marine Sediment, Cat. Mp	Marine Sediment, Cat. Mf	Chemical Waste	General Refuse	Metals	Felled trees	Paper/ cardboard packaging	Plastics
Unit	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000Kg)	('000Kg)	('000Kg)	('000Kg)	('000Kg)	('000Kg)
Jan	0.138	0.011	0.108	-	0.030	-	-	-	-	22.380	-	11.040	-	-	-
Feb	2.901	0.010	0.124	-	0.010	2.766	-	-	-	10.670	-	0.780	-	-	-
Mar															
Apr															
May															
Jun															
<b>SUB-TOTAL</b>	<b>3</b>	<b>0.021</b>	<b>0.232</b>	<b>0</b>	<b>0.041</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>33.05</b>	<b>0</b>	<b>11.820</b>	<b>0</b>	<b>0</b>	<b>0</b>
Jul															
Aug															
Sep															
Oct															
Nov															
Dec															
<b>TOTAL</b>	<b>3.039</b>	<b>0.02</b>	<b>0.232</b>	<b>-</b>	<b>0.041</b>	<b>2.766</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>33.05</b>	<b>-</b>	<b>11.820</b>	<b>-</b>	<b>-</b>	<b>-</b>

Notes :

- 1 - The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- 2 - Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- 3 - Broken concrete for recycling into aggregates.

Appendix N

Cumulative Statistics on  
Exceedances, Complaints,  
Notifications of Summons  
and Successful Prosecutions

*Appendix N1 Cumulative Statistics on Exceedances*

		Total No. recorded in this reporting month	Total No. recorded since project commencement
1-Hr TSP	Action	0	0
	Limit	0	0
24-Hr TSP	Action	0	2
	Limit	0	0
Noise	Action	0	0
	Limit	0	0
Water Quality	Action	0	1
	Limit	0	0

*Appendix N2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions*

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This Reporting Month (Feb 2014)	0	0	0
Total No. received since project commencement	1	0	0