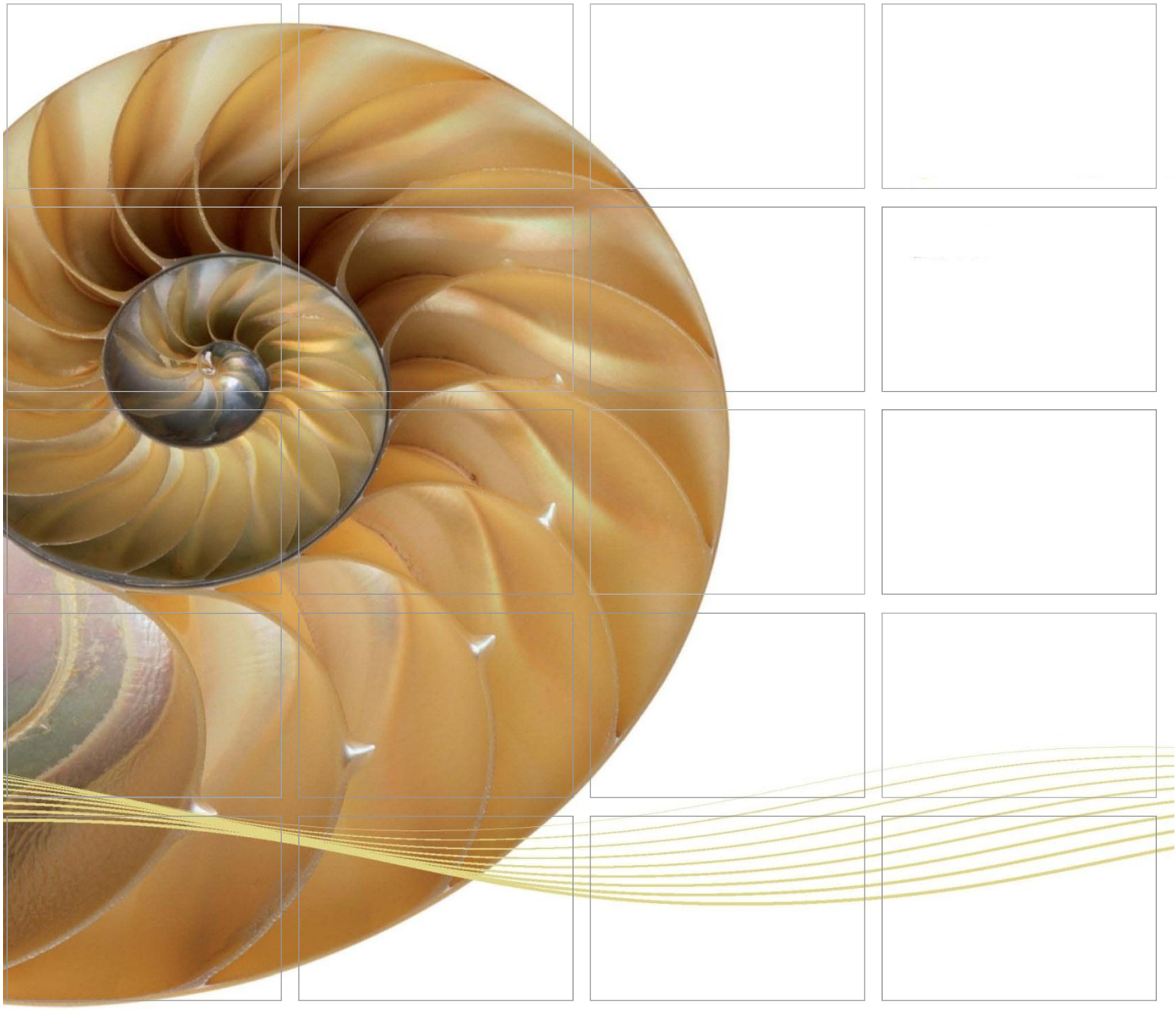
Report



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

Second Monthly Environmental Monitoring & Audit (EM&A) Report

10 January 2014

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

Second Monthly Environmental Monitoring & Audit (EM&A) Report

Document Code: 0212330_2nd Monthly EM&A_20140110.doc

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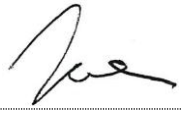
Client:	Project No:
DBJV	0212330
Summary:	Date: 10 January 2014
This document presents the Second Monthly EM&A Report for Tuen Mun – Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section.	Approved by:  *Mr Craig Reid* *Partner*
	Certified by:  *Mr Jovy Tam* *ET Leader*

Revision	Description	By	Checked	Approved	Date
	2nd Monthly EM&A Report	VAR	JT	CAR	10/01/14

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Under *Contract No. HY/2012/08*, Dragages – Bouygues Joint Venture (DBJV) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Northern Connection Sub-sea Tunnel 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) in accordance with *Environmental Permit No. EP-354/2009/A*. ENVIRON Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO).

The construction phase of the Project under the *EP-354/2009/A* commenced on 1 November 2013 and will tentatively be completed by the end of 2018. The impact monitoring of the EM&A programme, including air quality, water quality, marine ecological monitoring and environmental site inspections, were commenced on 1 November 2013.

This is the second monthly EM&A report presenting the EM&A works carried out during the period from 1 to 31 December 2013 for the *Contract No. HY/2012/08 Northern Connection Sub-sea Tunnel Section* (the "Project") 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

- Removal of existing seawall;
- Dredging;
- Placement of rock grade 400; and,
- Delivery of 1,797 seawall blocks.

Land-based Works

- Sorting of rock material started at Tsing Yi (Site WA 23);
- Completion of site office structural works (Site WA 18); and
- Temporary outdoor substation civil works (Site WA 18).

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

24-hour TSP Monitoring	5 sessions
1-hour TSP Monitoring	5 sessions

Impact Water Quality Monitoring	13 sessions
Impact Dolphin Monitoring	2 sessions
Joint Environmental Site Inspection	5 sessions

Daily marine mammal exclusion zone monitoring was undertaken during the period of dredging works. No sighting of the Indo-Pacific humpback dolphin *Sousa chinensis* was recorded in December 2013 during the exclusion zone monitoring.

Summary of Breaches of Action/Limit Levels

Breaches of Action and Limit Levels for Air Quality

Fourteen Action Level excedances and two Limit Level exceedances for air quality were recorded during the reporting month. The exceedances were considered not related to the construction works of this Contract upon further investigation.

Breaches of Action and Limit Levels for Water Quality

Five Action Level exceedances of depth-averaged suspended solids were recorded during the reporting month. The exceedances were considered not related to the construction works of this Contract upon further investigation.

Dolphin Monitoring

During this month of dolphin monitoring, no unacceptable impact from the construction activities of the TM-CLKL Northern Connection Sub-sea Tunnel 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 Northern Connection Sub-sea 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.

Environmental Complaints, Non-compliance & Summons

No non-compliance with EIA recommendations, EP conditions and other requirements associated with the construction of this Contract was recorded in this reporting period.

No environmental complaint was received in this reporting period.

No environmental summons was received in this reporting period.

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 January 2014 include the following:

Marine-based Works

- Seawall construction;
- Removal of existing seawall armour rock;
- Temporary seawall;
- Additional Ground investigation;
- Reclamation; and
- Temporary pontoon installation at River Trade Terminal (RTT).

Land-based Works

- Presonstruction for site office (WA 18);
- Hoarding erection & building demolition (Portion N6); and
- CLP substation construction (Portion N6).

Future Key Issues

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

1 INTRODUCTION

1.1 BACKGROUND

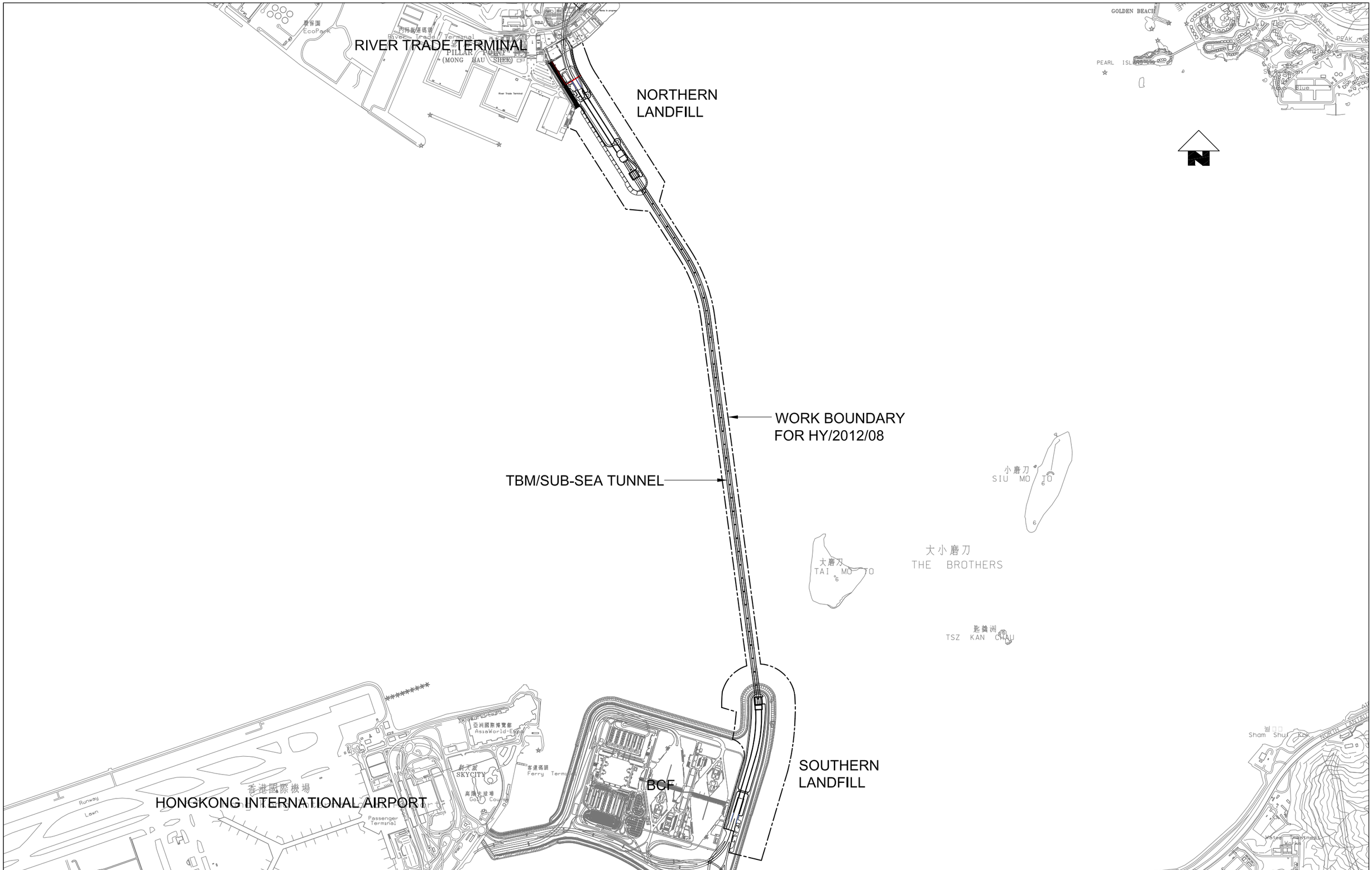
According to the findings of the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by the Transport Department, Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway would be operating beyond capacity after 2016. This forecast has been based on the estimated 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/2012/08*, Dragages – Bouygues Joint Venture (DBJV) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Northern Connection Sub-sea Tunnel 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) in accordance with *Environmental Permit No. EP-354/2009/A*. ENVIRON Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO).

Layout of the Contract components is presented in *Figure 1.1*.

The construction phase of the Contract commenced on 1 November 2013 and will tentatively be completed by 2018. The impact monitoring phase of the EM&A programme, including air quality, water quality, marine ecological monitoring and environmental site inspections, were commenced on 1 November 2013.



Rev.	Description	Date	Checked
A	FIRST ISSUE	11SEP13	PKV

Designed By: PKV
Drawn By: DAI
Approved By: SPo PP
Date: 11SEP2013

Main Contractor: Dragages - Bouygues Joint Venture 實嘉 - 布依格聯營

Client: 路政署 HIGHWAYS DEPARTMENT

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

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

Drawing Title: **Figure 1.1**

Drawing no.: TMCLKL8-DBJ-GEN-DWG-00174
Scale: 1:25000 @ A3
CADD Ref.: TMCLKL8-DBJ-GEN-DWG-00174-DFT-A
Issue Status: DFT (DRAFT)
Revision: A

1.2 SCOPE OF REPORT

This is the second Monthly EM&A Report under the *Contract No. HY/2012/08 Tuen Mun – Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section*. This report presents a summary of the environmental monitoring and audit works in December 2013.

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	Edwin Ching	2450 3111	2450 3099
		Andrew Westmoreland	2450 3511	2450 3099
ENPO / IEC (ENVIRON Hong Kong Ltd.)	ENPO Leader	Y.H. Hui	3465 2888	3465 2899
	IEC	Tony Cheng	3465 2888	3465 2899
Contractor (Dragages – Bouygues Joint Venture)	Environmental Manager	C.F. Kwong	2293 7322	2670 2798
	Environmental Officer	Bryan Lee	2293 7323	2670 2798
	24hour complaint hotline	Rachel Lam	2293 7342	
ET (ERM-HK)	ET Leader	Jovy Tam	2271 3113	2723 5660

1.4 SUMMARY OF CONSTRUCTION WORKS

The construction phase of this Contract was commenced on 1 November 2013. The three-month rolling construction programme is shown in *Appendix B*.

As per DBJV's information, details of major construction works carried out in this reporting period are as follows:

Marine-based Works

- Removal of existing seawall;
- Dredging;
- Placement of rock grade 400; and
- Delivery of 1,797 seawall blocks.

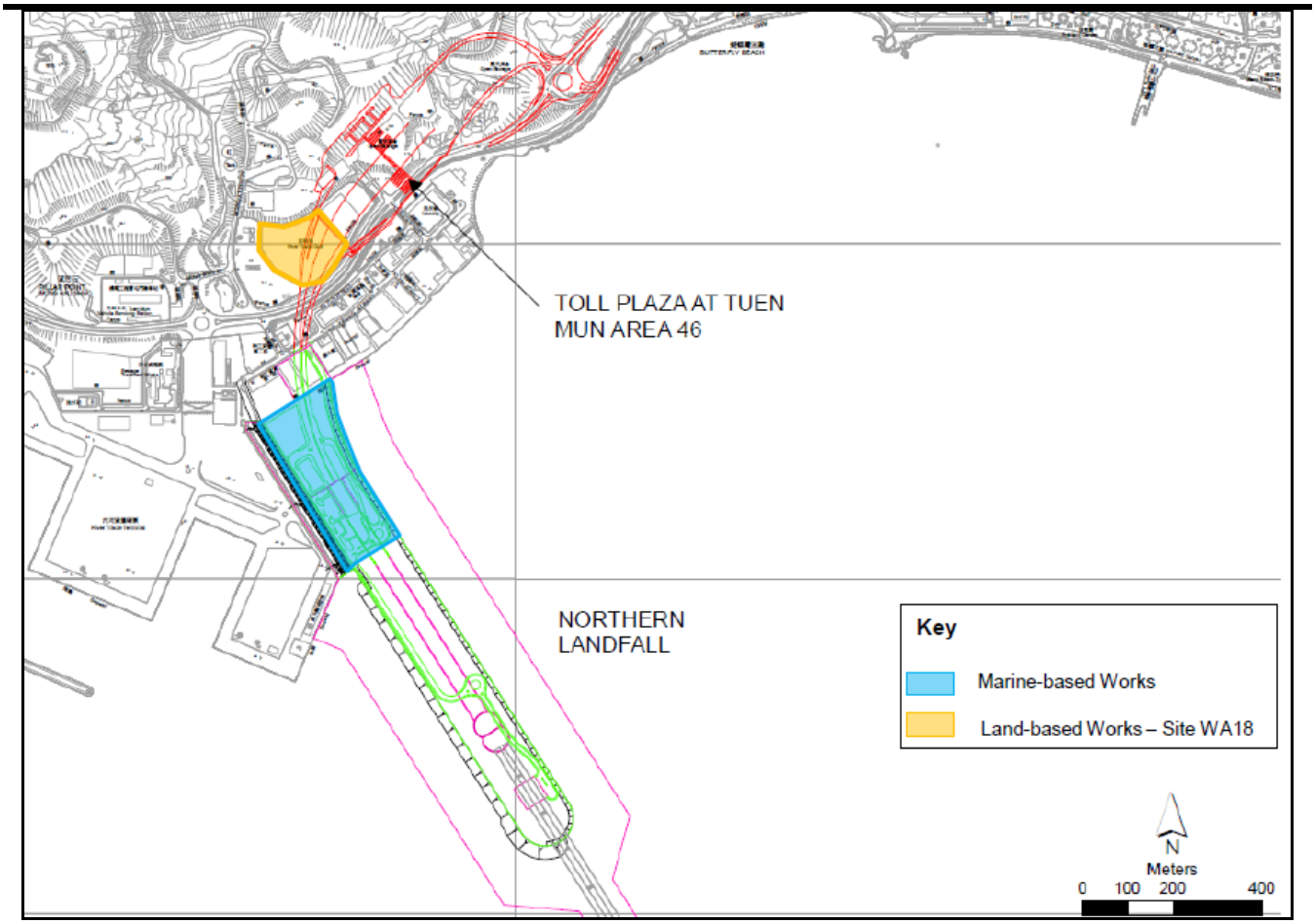
Land-based Works

- Sorting of rock material started at Tsing Yi (Site WA 23);
- Completion of site office structural works (Site WA 18); and
- Temporary outdoor substation civil works (Site WA18).

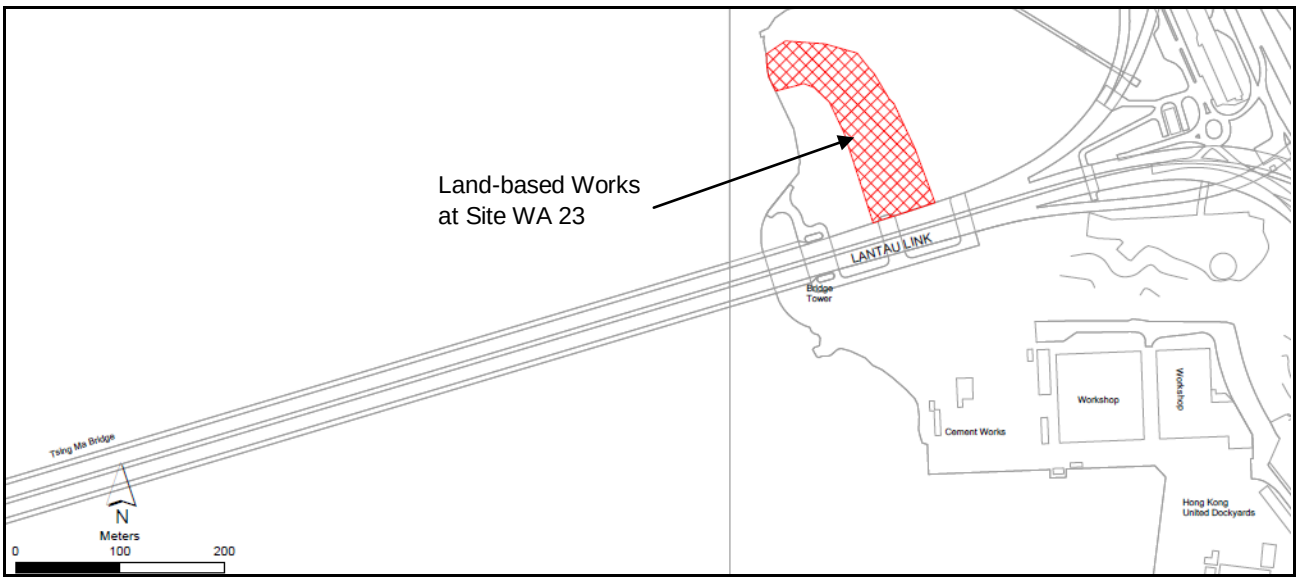
The general layout plan of the site showing the detailed works areas is shown in *Figure 1.2*.

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

Figure 1.2 Locations of Construction Activities - December 2013



a. Tuen Mun – Site WA 18 and marine-land based works area



b. Tsing Yi – Site WA 23

2 EM&A RESULTS

The EM&A programme required environmental monitoring for air quality, water quality and marine ecology as well as environmental site inspections for air quality, 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 Levels of the air quality monitoring is provided in *Appendix D*.

High volume samplers (HVSs) were used to carry out the 1-hour and 24-hour TSP monitoring on 5, 11, 17, 23 and 28 December 2013 at the five (5) air quality monitoring stations in accordance with the requirements stipulated in the Updated EM&A Manual (*Figure 2.1*; *Table 2.1*). Wind anemometer was installed at the rooftop of ASR5 for logging wind speed and wind direction. Details of the equipment deployed are provided in *Table 2.2*. Copies of the calibration certificates for the equipment are presented in *Appendix E*.

Table 2.1 Locations of Impact Air Quality Monitoring Stations

Monitoring Station	Monitoring Dates	Location	Description	Parameters & Frequency
ASR1	5, 11, 17, 23 and 28 December 2013	Tuen Mun Fireboat Station	Office	• 1-hour Total Suspended Particulates (1-hour TSP, $\mu g/m^3$), 3 times per day every 6 days • 24-hour Total Suspended Particulates (24-hour TSP, $\mu g/m^3$), daily for 24-hour every 6 days
ASR5		Pillar Point Fire Station	Office	
AQMS1		Previous River Trade Golf	Bare ground	
AQMS2*		Bare ground at Ho Suen Street	Bare ground	
ASR10		Butterfly Beach Park	Recreational uses	

*Notes: AQMS2 is being proposed as a temporary alternative station for monitoring since access to Butterfly Laundry is not granted to the ET at the moment to undertake the air quality monitoring. Tentatively AQMS2 will be relocated and re-installed at ASR6 (butterfly Laundry) in Mid-January. AQMS2 will then be superseded by ASR6 for the impact air quality monitoring.

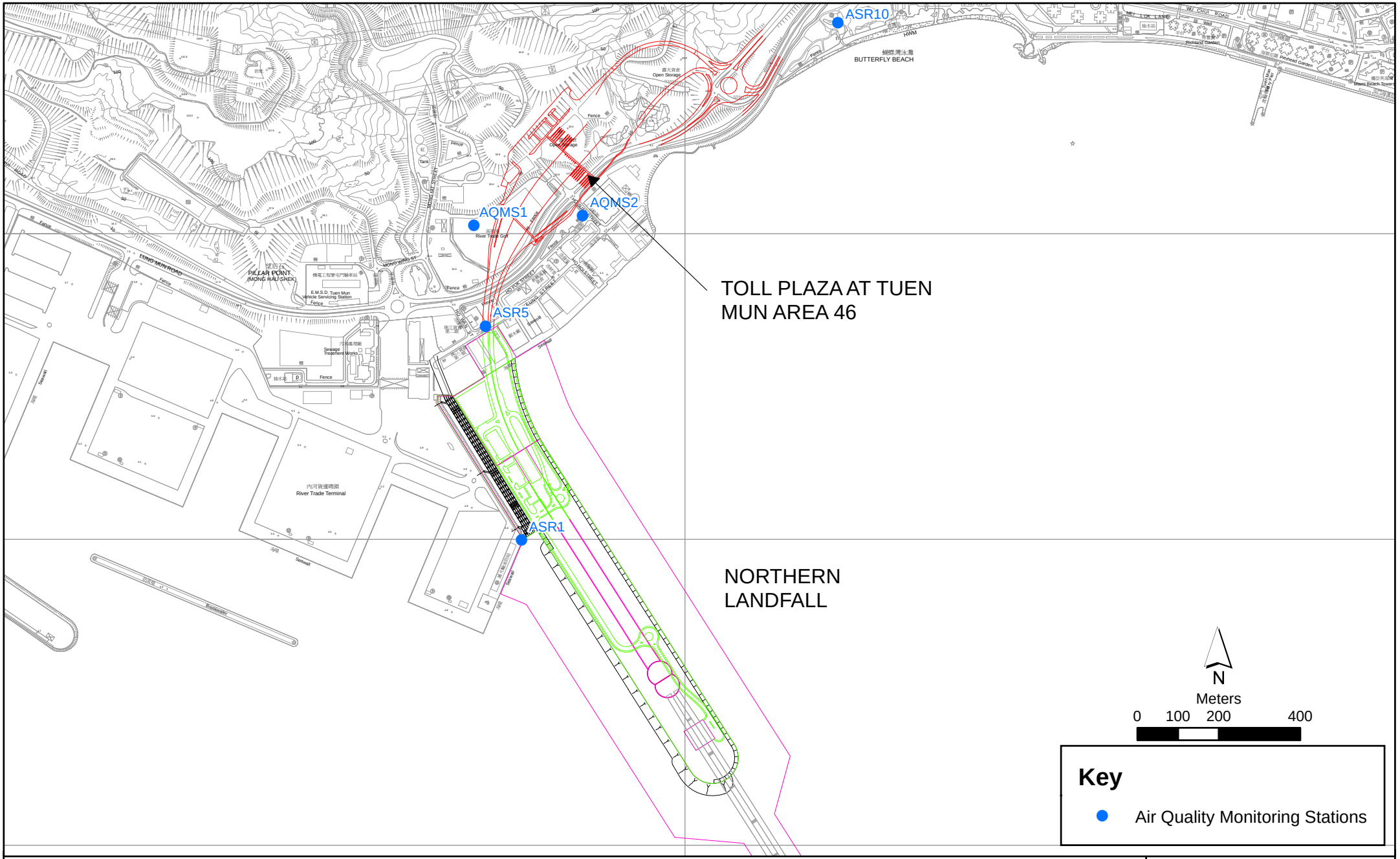


Figure 2.1

Air Quality Monitoring Stations for the Enhanced TSP Monitoring

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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 Anemometer	MetPak, WindSonic

2.1.2 Monitoring Schedule for the Reporting Month

The schedule for air quality monitoring in December 2013 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. Detail impact air quality monitoring results and graphical presentations are presented in *Appendix G*.

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

Station	Average (µg/m³)	Range (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)
ASR 1	226	60 – 474	331	500
ASR 5	255	43 – 559	340	500
AQMS1	162	48 – 261	335	500
AQMS2	234	56 – 425	338	500
ASR10	172	51 – 386	337	500

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

Station	Average (µg/m³)	Range (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)
ASR 1	170	58 - 249	213	260
ASR 5	196	54 – 258	238	260
AQMS1	139	46 – 195	213	260
AQMS2	175	68 – 269	238	260
ASR10	121	43 – 166	214	260

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

A total of five monitoring events were undertaken in which fourteen Action Level exceedances and two Limit Level exceedances of 1-hr TSP and 24-hr TSP were observed on 11, 23 and 28 December 2013.

The Event and Action plan is presented in *Appendix K*.

Meteorological information collected at the ASR5, including wind speed and wind direction, is provided in *Appendix H*.

2.2 WATER QUALITY MONITORING

2.2.1 Monitoring Requirements & Equipment

In accordance with the Updated EM&A Manual, impact water quality monitoring was carried out three days per week during the construction period at nine (9) water quality monitoring stations (*Figure 2.2*; *Table 2.5*). The Action and Limit Levels of the water quality monitoring is provided in *Appendix D*.

Table 2.5 Locations of Water Quality Monitoring Stations and the Corresponding Monitoring Requirements

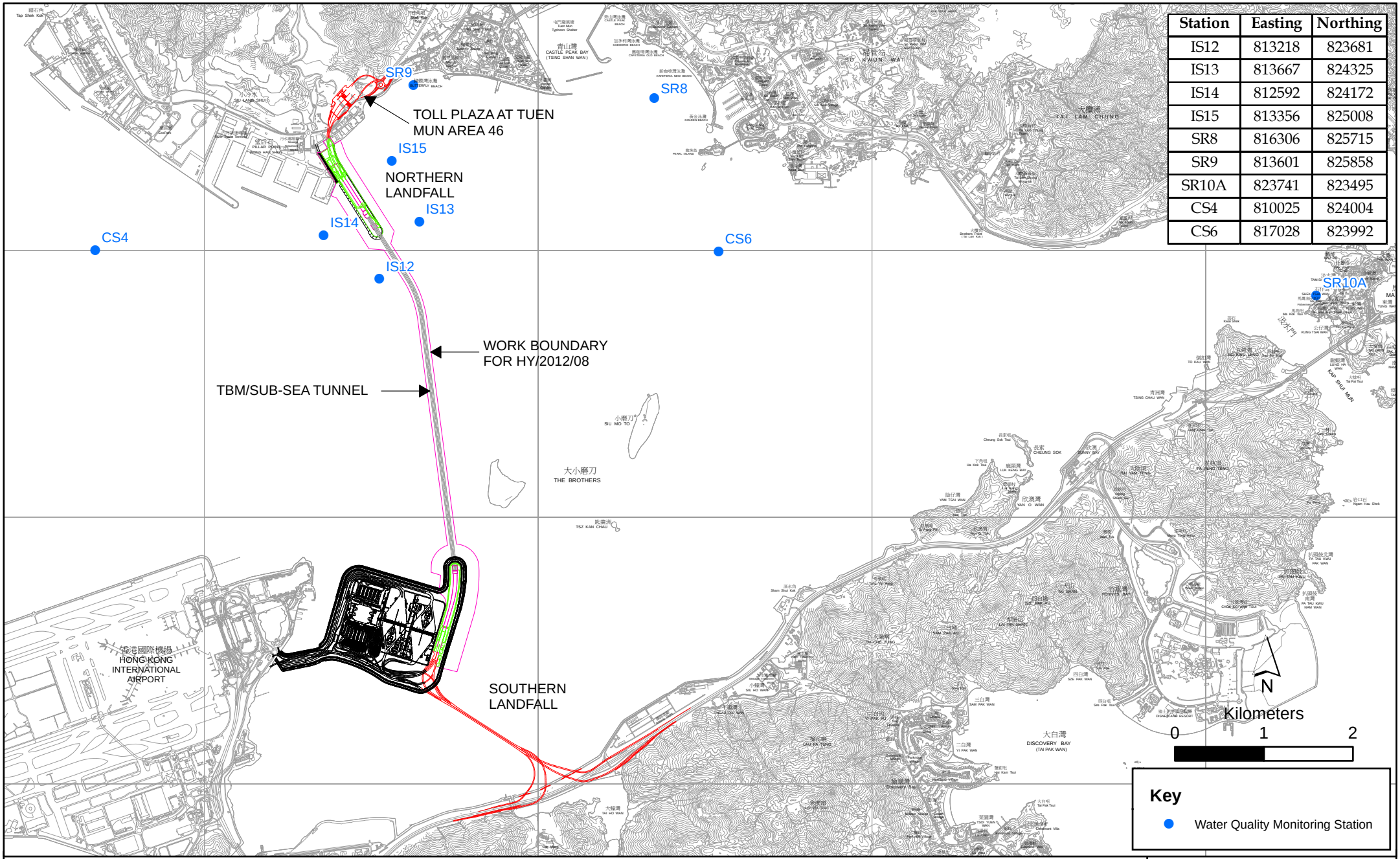
Station ID	Type	Coordinates		*Parameters, unit	Depth	Frequency
		Easting	Northing			
IS12	Impact Station	813218	823681	• Temperature(°C)	3 water depths: 1m below sea surface, mid-depth and 1m above sea bed. If the water depth is less than 3m, mid-depth sampling only. If water depth less than 6m, mid-depth may be omitted.	Impact monitoring: 3 days per week, at mid-flood and mid-ebb tides during the construction period of the Contract.
IS13	Impact Station	813667	824325	• pH(pH unit)		
IS14	Impact Station	812592	824172	• Turbidity (NTU)		
IS15	Impact Station	813356	825008	• Water depth (m)		
CS4	Control / Far Field Station	810025	824004	• Salinity (ppt)		
CS6	Control / Far Field Station	817028	823992	• DO (mg/L and % of saturation)		
SR8	Sensitive receiver (Gazettal beaches in Tuen Mun)	816306	825715	• SS (mg/L)		
SR9	Sensitive receiver (Butterfly Beach)	813601	825858			
SR10A	Sensitive receiver (Ma Wan FCZ)	823741	823495			

*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.

Table 2.6 summarises the equipment used in the impact water quality monitoring programme. Copies of the calibration certificates are attached in *Appendix E*.

Table 2.6 Water Quality Monitoring Equipment

Equipment	Model	Qty.
Water Sampler	Kahlsico Water-Bottle Model 135DW 150	4
Multi-parameter Water Quality System	YSI 6820-C-M/YSI 6920	6
Dissolved Oxygen Meter	YSI Pro 2030	1
pH Meter	HANNA HI 8314	1
Turbidity Meter	HACH 2100Q	1
Monitoring Position Equipment	"Magellan" Handheld GPS Model eXplorist GC	4
	DGPS Koden KGP913MK2 (1)	1



Station	Easting	Northing
IS12	813218	823681
IS13	813667	824325
IS14	812592	824172
IS15	813356	825008
SR8	816306	825715
SR9	813601	825858
SR10A	823741	823495
CS4	810025	824004
CS6	817028	823992

Figure 2.2

Water Quality Monitoring Station

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Date: 15/11/2013

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2.2.2 *Action & Limit Levels*

The Action and Limit Levels for water quality monitoring are summarized in *Appendix D*.

2.2.3 *Monitoring Schedule for the Reporting Month*

The schedule for water quality monitoring in December 2013 is provided in *Appendix F.*

2.2.4 *Results and Observations*

During this reporting period, marine dredging activities at Portion N-a continued from 1 November 2013. A closed grab dredger was used and silt curtains (cage-type and single floating type) were deployed during dredging works. The level of dredging activities was within the working rate described in the EP and approved EIA Report. It is useful to note that heavy marine traffic (not associated with the Project) was commonly observed nearby the Project site and its vicinity.

Impact water quality monitoring was conducted at all designated monitoring stations in the reporting month. Detailed impact water quality monitoring results are presented in *Appendix G*.

A total of thirteen monitoring events were undertaken in which five Action Level exceedances of depth-averaged SS were recorded on 4 and 6 December 2013.

2.3 *DOLPHIN MONITORING*

2.3.1 *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.

2.3.2 *Monitoring Equipment*

Table 2.8 summarises the equipment used for the impact dolphin monitoring.

Table 2.7 Dolphin Monitoring Equipment

Equipment	Model

Equipment	Model
Global Positioning System (GPS)	Garmin 18X-PC Geo One Phottix
Camera	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

2.3.3 Monitoring Parameter, Frequencies & 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.

2.3.4 Monitoring Location

The impact dolphin monitoring was carried out in the NEL and NWL along the line transect as depicted in *Figure 2.3*. The co-ordinates of all transect lines are shown in *Table 2.9* below.

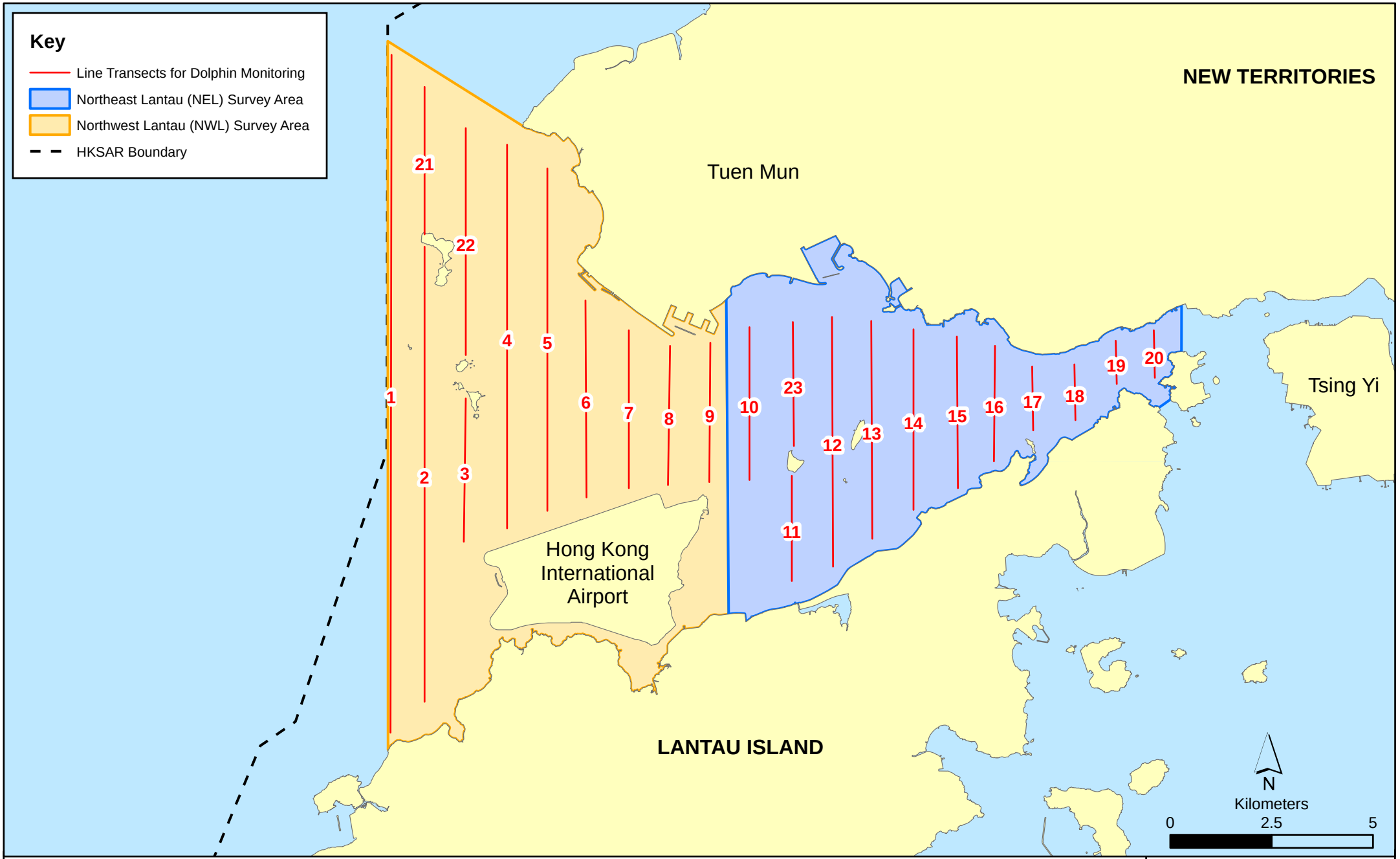

Figure 2.3

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

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Date: 29/11/2013

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Table 2.8 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
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				

2.3.5 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 K*.

2.3.6 *Monitoring Schedule for the Reporting Month*

Dolphin monitoring was carried out on 5, 9, 11 and 19 December 2013. The dolphin monitoring schedule for the reporting period is shown in *Appendix F*.

2.3.7 *Results & Observations*

A total of 277.40 km of survey effort was collected, with 83.2% of the total survey effort being conducted under favourable weather conditions (ie Beaufort Sea State 3 or below with good visibility) in December 2013. Amongst the two areas, 98.10 km and 179.30 km of survey effort were collected from NEL and NWL survey areas, respectively. The total survey effort conducted on primary and secondary lines were 217.14 km and 60.26 km, respectively. The survey efforts are summarized in *Appendix J*.

A total of eight groups of thirty-three dolphin sightings were recorded during the two sets of surveys. All except one sighting was made in NWL during the two sets of surveys in December, with another group being sighted in NEL.

None of the 33 sightings was made in the proximity of this Project. The distribution of dolphin sightings during the reporting month is shown in *Figure 2.4*.

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 December 2013 with the results present in *Tables 2.12* and *2.13*.

Table 2.9 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: Dec 5th/9th	2.68	8.05
	Set 2: Dec 11th/19th	0.0	0.0
NWL	Set 1: Dec 5th/9th	6.95	30.57
	Set 2: Dec 11th/19th	6.82	27.27

Note: Dolphin Encounter Rates are deduced from the Two Sets of Surveys (Two Surveys in Each Set) in December 2013 in Northeast (NEL) and Northwest Lantau (NWL)

Table 2.10 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	**Both Primary and**	**Primary**	**Both Primary and**

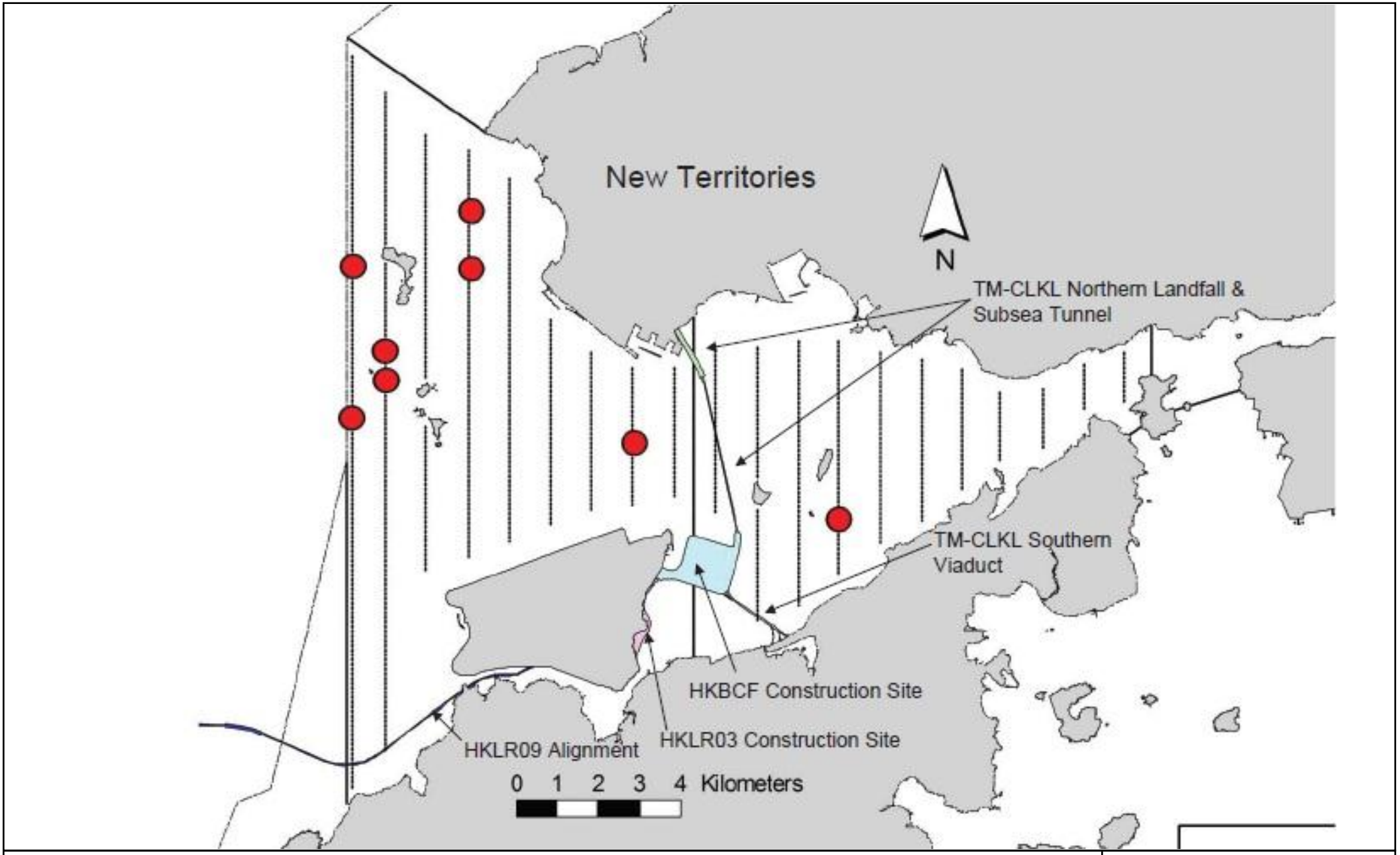

Figure 2.4

DATE: 06/03/2013

HY/2012/08 TM-CLKL Northern Connection Sub-sea Tunnel Section
The distribution of dolphin sightings during the reporting period
(Source: Adopted from HKLR03 Monitoring Survey in December 2013)

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	Lines Only	Secondary Lines	Lines Only	Secondary Lines
Northeast Lantau	1.4	1.0	4.1	3.1
Northwest Lantau	6.9	5.3	29.6	22.6

Note: Overall dolphin encounter rates (sightings per 100km of survey effort) from all four surveys are conducted in December 2013 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 December 2013 was 4.13 individuals per group. Six of the eight dolphin groups were composed of only 1-4 animals, while the other two were larger groups with 6 and 12 animals per group, respectively.

During this month of dolphin monitoring, no unacceptable impact from the construction activities of this Contract was recorded from the general observations.

Due to monthly variation in dolphin occurrence within the survey 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 this Project 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.

2.3.8 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 the Indo-Pacific humpback dolphin *Sousa chinensis* were recorded in December 2013 during the exclusion zone monitoring.

2.4 EM&A SITE INSPECTION

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 4, 10, 18, 24 and 31 December2013.

Key observations during the site inspections are described below:

Air Quality

- Sandy materials were exposed over the ground without proper cleanup.

Noise

- No adverse observation was identified in the reporting month.

Water Quality

- Silt curtain was found damaged (Portion N-A).
- Cage-type silt curtain was not deployed properly and found broken. (Dredging barge – Crown Asia 1).
- Dredging grab was found leaking remarkable (Dredging barge – Crown Asia 1).
- Oil stain was observed near the drip tray for the chemical containers (Dredging barge – Crown Asia 1).

Marine Ecology

Daily 250 m marine mammal exclusion zone monitoring was undertaken during the period of dredging activities being undertaken. No sighting of the Indo-Pacific humpback dolphin *Sousa chinensis* were recorded in December 2013 during the exclusion zone monitoring. In addition, acoustic decoupling monitoring and marine vessel control for dredging works were implemented in this reporting month.

Chemical and Waste Management

- A proper chemical waste container with good conditions and capacity should be provided (Dredging barge - Crown Asia 1).
- Oil stain was observed and drip tray should be provided for the chemical containers (Barge - Wing Ko).
- Drip tray should be maintained with adequate capacity to avoid oil spillage. Any oil spill observed should be cleaned up properly as chemical waste (Dredging barge - Crown Asia 1).
- The chemical container was observed without drip tray and labels (WA-23)
- Drip trays for the chemical containers were found at full capacity and without the drip tray plug (WA-18)

Landscape and Visual Impact

- No adverse observation was identified in the reporting month.

Miscellaneous

A proper tree protection zone should be set up to avoid disturbance to the remaining natural habitat (WA-23).

The Contractor has rectified all of the observations as identified during environmental site inspection in the reporting month.

2.5 *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, 883 tonnes of inert C&D Materials are generated and disposed of as public fill in the reporting period. 40,500 m^3 of Category L marine sediment and 5,000 m^3 of Category M marine sediment are generated and disposed of at designated sites. Monthly summary of waste flow table is detailed in *Appendix M*.

The Contractor was 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 was reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.

The Contractor was 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.

2.6 *ENVIRONMENTAL LICENSES AND PERMITS*

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

Table 2.11 Summary of Environmental Licensing and Permit Status

Statutory Reference	License/ Permit	License or Permit No.	Date of Issue	Date of Expiry	License/ Permit Holder	Remarks
EIAO	Environmental Permit	EP-354/2009/A	8 Dec 2010	Throughout the Contract	HyD	Tuen Mun-Chek Lap Kok Link
NCO	Construction Dust Notification	363510	19 Aug 2013	Throughout the Contract	DBJV	-
WDO	Chemical Waste Registration	5213-422-D2516-01	10 Sep 2013	Throughout the Contract	DBJV	-
WDO	Construction Waste Disposal Account	7018108	19 Aug 2013	Throughout the Contract	DBJV	Waste disposal in Contract HY/2012/08
WPCO	Waste Water Discharge License	WT00017707-2013	18 Nov 2013	30 Nov 2018	DBJV	Discharge of Construction Runoff
NCO	Construction Noise Permit	GW-RW0691-13	15 Oct 2013	14 Apr 2014	DBJV	For Dredging and Reclamation Works
NCO	Construction Noise Permit	GW-RW0822-13	14 Nov 2013	10 May 2014	DBJV	For works in site WA18
NCO	Construction Noise Permit	GW-RS0814-13	15 Nov 2013	10 May 2014	DBJV	For works in site WA23
DASO	Marine Dumping Permit	EP/MD/14-072	1 Nov 2013	30 Apr 2014	DBJV	For Type 1
DASO	Marine Dumping Permit	EP/MD/14-071	1 Dec 2013	31 Dec 2013	DBJV	For Type 1 (Dedicated site) and Type 2

2.7 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 relevant to this Contract were implemented properly.

2.8 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

Five exceedances of Action and no exceedances Limit levels were recorded for water quality monitoring during the reporting month. Fourteen exceedances of Action level and two exceedances of Limit Level for air quality were recorded during the reporting month. The exceedances were considered not related to the construction works of this Contract after further investigation.

Cumulative statistics are provided in *Appendix L*.

2.9 SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

The Environmental Complaint Handling Procedure is provided in *Figure 2.5*.

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 L*.

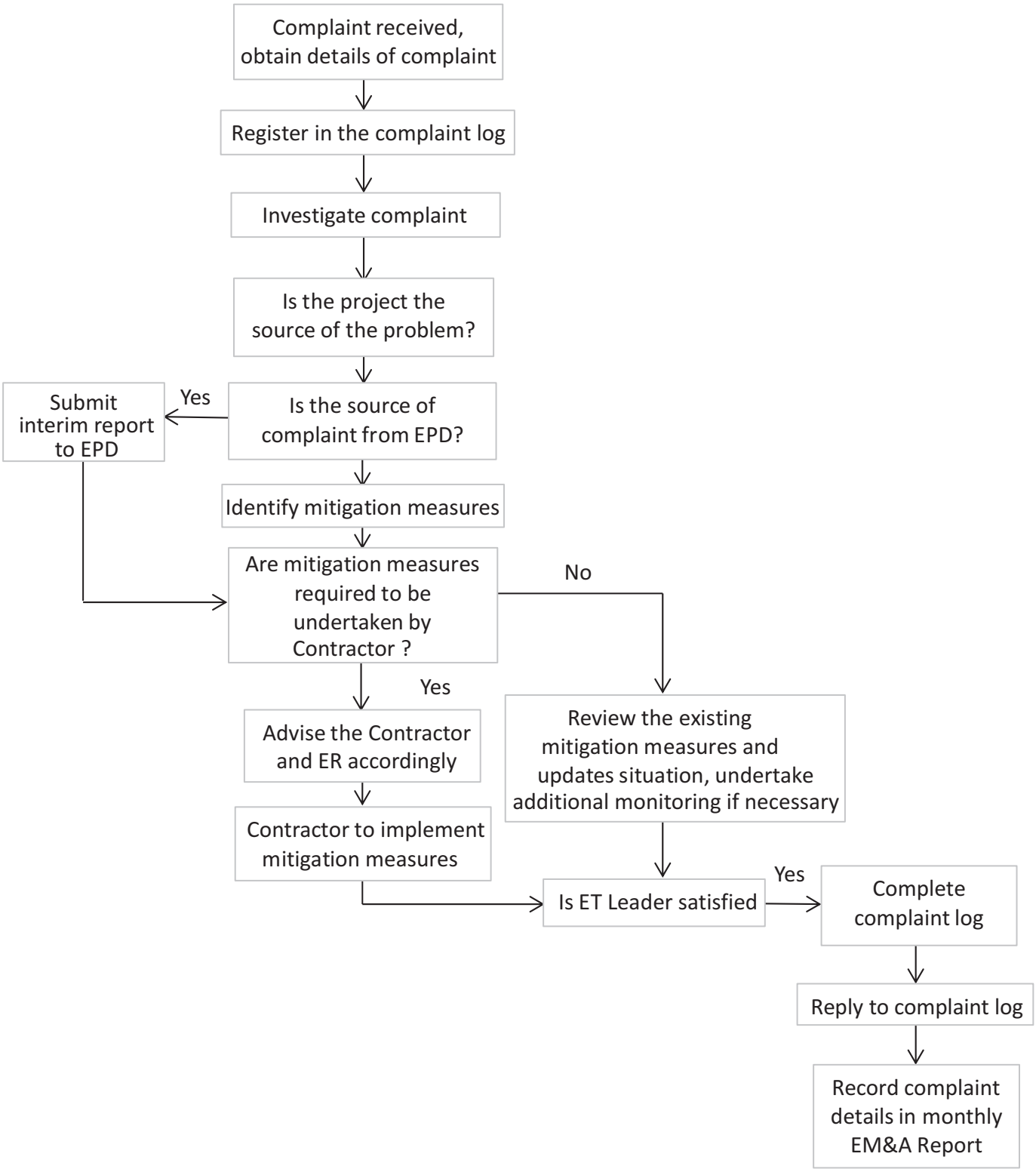

Figure 2.5 Environmental Complaint Handling Procedure

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DATE: 06/12/2013

Environmental Resources Management

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3 FUTURE KEY ISSUES

3.1 CONSTRUCTION PROGRAMME FOR THE COMING MONTHS

As informed by the Contractor, the major works for the Project in January 2014 will be:

Marine-based Works

- Seawall construction;
- Removal of existing seawall amour rock;
- Temporary seawall;
- Additional ground investigation;
- Reclamation; and
- Temporary pontoon installation at RTT.

Land-based Works

- Construction for site office (WA 18);
- Hoarding erection & building demolition (Portion N6); and
- CLP substation construction (Portion N6).

3.2 KEY ISSUES FOR THE COMING MONTH

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

3.3 MONITORING SCHEDULE FOR THE COMING MONTH

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

4 CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

This Second Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 31 December 2013, 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), water quality and dolphin monitoring were carried out in the reporting period. Fourteen (14) Action Level and two (2) Limit Level exceedances for air quality monitoring were recorded in the reporting month. Five (5) Action Level exceedances for water quality monitoring were recorded in the reporting month. Investigation works show that the exceedance was not due to the Project works. Nevertheless, the Contractor was reminded to ensure all dust mitigation measures are provided at the construction site and the proper deployment of cage-type silt curtain at the dredging site.

A total of eight groups of thirty-three dolphin sightings were recorded during the two sets of surveys in December 2013. All except one sighting were made in NWL during the two sets of surveys in December, with another group being sighted in NEL. None of the 33 sightings was made in the proximity of the TM-CLKL Northern Connection Sub-sea Tunnel Section. During this month of dolphin monitoring, no unacceptable impact from the construction activities of the TM-CLKL Northern Connection Sub-sea Tunnel Section on Chinese White Dolphins was noticeable from general observations.

Environmental site inspection was carried out five (5) times in December 2013. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site audits.

4.2 RECOMMENDATIONS

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

Air Quality

Temporary stockpiles at the works area should be properly covered by the Contactor when piling is completed.

Water Quality

Measures should be undertaken by the Contractor to avoid residual sandy materials leaving from at the edge of loading area which may lead to surface runoff in the vicinity.

The Contractor should avoid sandy materials from entering the drainage area.

The Contractor should ensure that the dredging is undertaken properly to avoid spillage outside the cage-type silt curtain in the dredging site of barge Crown Asia 1.

Chemical and Waste Management

The Contractor should install drip tray stopper and clear water stagnant in the drip tray.

The Contractor should proper label the oil drums.

The Contractor should clear oil stain on the barge.

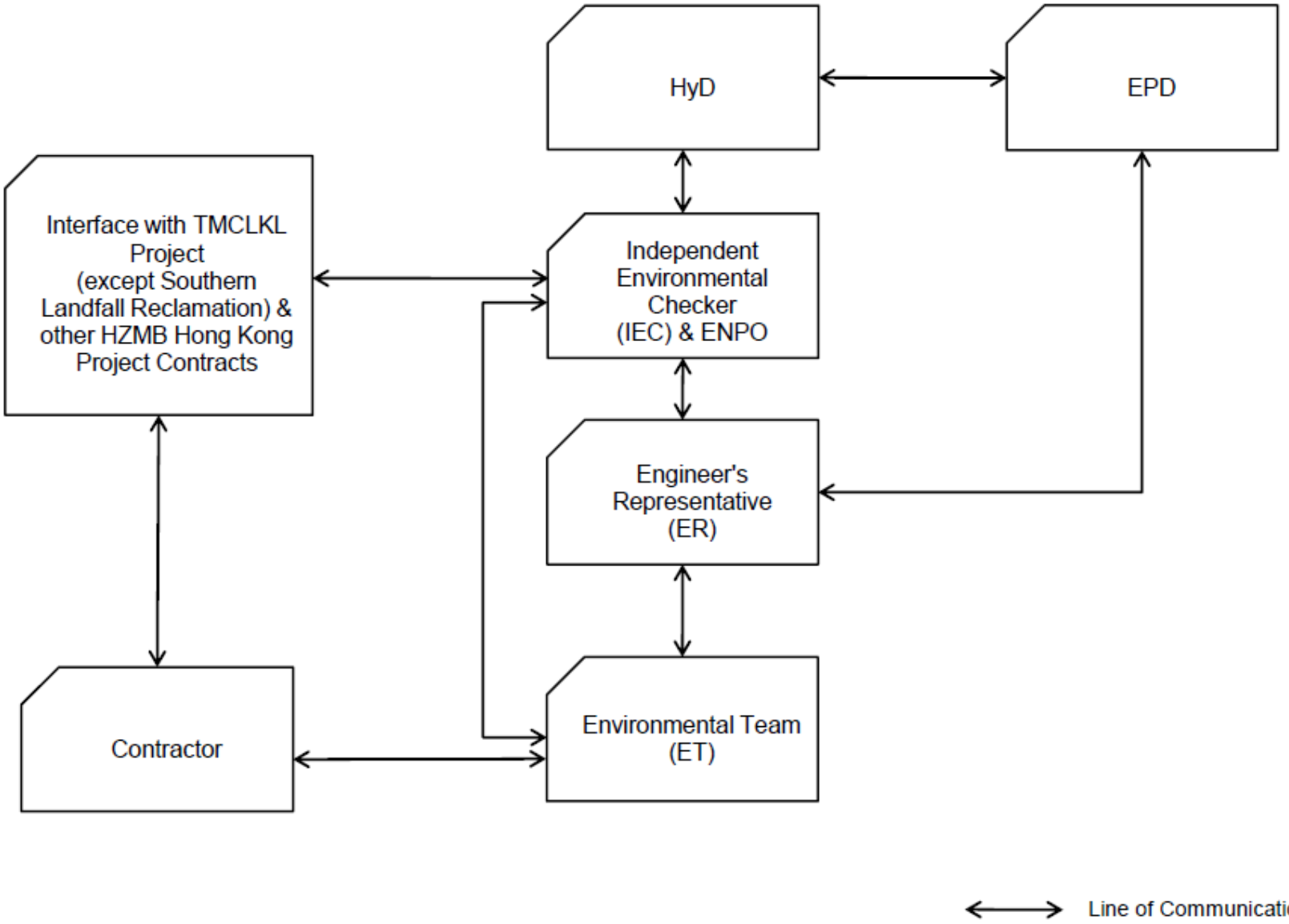
Drip tray should be provided by the Contractor for the chemical containers

Miscellaneous

The Environmental Permit should be displayed conspicuously in the site entrance by the Contractor.

Appendix A

Project Organization for Environmental Works



Appendix A1

Contract No. HY/2012/08 Northern Connection Sub-sea Tunnel Section
Project Organization

DATE: 06/03/2013

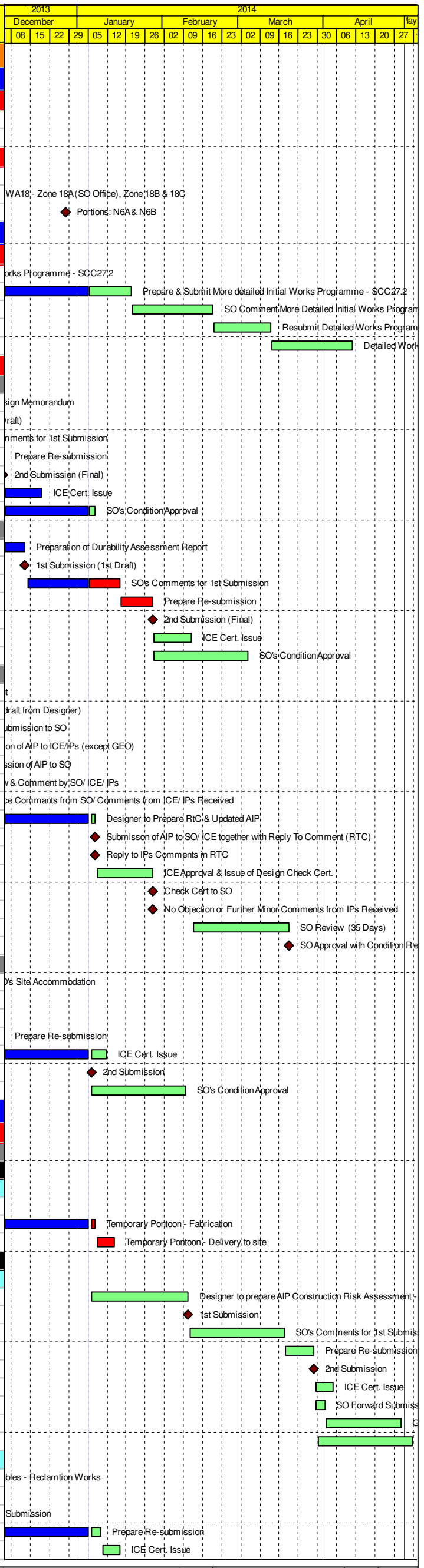
Environmental Resources Management

ERM

Appendix B

Three-Month Rolling Construction Programme

Activity ID	Activity Name	Orig Dur	Current Start	Current Finish	% Comp
TMCLK - Northern Connection Sub-Sea Tunnel Section					
Contract Dates					
Commencement and Completion Dates					
KD001	Letter of Acceptance Received	0d		26-Jul-13A	100%
KD005	Date for Commencement	0d	05-Aug-13A		100%
Site Possession Date					
AD010	Portions: X, N5, N7,(N8A,B&C), N9,(N12-seabed level & below) & WA23	0d	05-Aug-13A		100%
AD020	Portions: WA18 - Zone 18A (SO Office), Zone 18B & 18C	0d	18-Nov-13A		100%
AD030	Portions: N6A & N6B	0d	28-Dec-13A		100%
General Submissions					
Programme					
SCC0273	SO Aprove Initial Works Programme - SCC27.2	30d	12-Oct-13A	04-Nov-13A	100%
SCC0274	Prepare & Submit More detailed Initial Works Programme - SCC27.2	60d	05-Nov-13A	20-Jan-14	70%
SCC0275	SO Comment More Detailed Initial Works Programme - SCC27.2	30d	21-Jan-14	19-Feb-14	0%
SCC0276	Resubmit Detailed Works Programme - SCC27.2	21d	20-Feb-14	12-Mar-14	0%
SCC0277	Detailed Works Programme - SCC27.2 - Approval by SO	30d	13-Mar-14	11-Apr-14	0%
General Design Submissions					
(A3) Design Memorandum					
GS00100	Prepare & Submit Design Memorandum	49d	08-Aug-13A	01-Nov-13A	100%
GS00110	1st Submission (1st Draft)	0d		01-Nov-13A	100%
GS00120	SO's Comments for 1st Submission	35d	02-Nov-13A	19-Nov-13A	100%
GS00130	Prepare Re-submission	10d	20-Nov-13A	05-Dec-13A	100%
GS00140	2nd Submission (Final)	0d		05-Dec-13A	100%
GS00150	ICE Cert. Issue	6d	06-Dec-13A	19-Dec-13A	100%
GS00195	SO's Condition Approval	35d	06-Dec-13A	07-Jan-14	50%
(A9) Durability Assessment Report					
GS01500	Preparation of Durability Assessment Report	36d	18-Sep-13A	13-Dec-13A	100%
GS01505	1st Submission (1st Draft)	0d		13-Dec-13A	100%
GS01510	SO's Comments for 1st Submission	35d	14-Dec-13A	16-Jan-14	30%
GS01515	Prepare Re-submission	10d	17-Jan-14	28-Jan-14	0%
GS01520	2nd Submission (Final)	0d		28-Jan-14*	0%
GS01525	ICE Cert. Issue	6d	29-Jan-14	11-Feb-14	0%
GS01550	SO's Condition Approval	35d	29-Jan-14	04-Mar-14	0%
(A19) AIP for Roadoworks & Project Alignment					
AP00100	Designer prepare AIP - Roadworks & Alignment	9d	17-Sep-13A	27-Sep-13A	100%
AP00105	Review & Comment by JV (Final draft from Designer)	6d	28-Sep-13A	15-Oct-13A	100%
AP00110	Prepare formal submission to SO	6d	16-Oct-13A	07-Nov-13A	100%
AP00115	Formal Submission of AIP to ICE/IPs (except GEO)	0d		07-Nov-13A	100%
AP00120	Advanced Submission of AIP to SO	0d		07-Nov-13A	100%
AP00125	Review & Comment by SO/ ICE/ IPs	28d	08-Nov-13A	22-Nov-13A	100%
AP00130	Advance Commants from SO/ Comments from ICE/ IPs Received	0d		22-Nov-13A	100%
AP00135	Designer to Prepare RtC & Updated AIP	18d	23-Nov-13A	07-Jan-14	90%
AP00140	Submisson of AIP to SO/ ICE together with Reply To Comment (RTC)	0d		07-Jan-14	0%
AP00145	Reply to IPs Comments in RTC	0d		07-Jan-14	0%
AP00150	ICE Approval & Issue of Design Check Cert.	18d	08-Jan-14	28-Jan-14	0%
AP00155	Check Cert to SO	0d		28-Jan-14	0%
AP00160	No Objection or Further Minor Comments from IPs Received	0d		28-Jan-14	0%
AP00180	SO Review (35 Days)	35d	12-Feb-14	19-Mar-14	0%
AP00185	SO Approval with Condition Received	0d		19-Mar-14	0%
SO's Site Accommodation					
GS02490	Preparation of Submission for SO's Site Accommodation	36d	31-Aug-13A	15-Oct-13A	100%
GS02500	1st Submission	0d		04-Oct-13A	100%
GS02510	SO's Comments for 1st Submission	35d	04-Oct-13A	12-Oct-13A	100%
GS02520	Prepare Re-submission	12d	13-Oct-13A	05-Dec-13A	100%
GS02530	ICE Cert. Issue	6d	09-Nov-13A	11-Jan-14	0%
GS02540	2nd Submission	0d		06-Jan-14	0%
GS02550	SO's Condition Approval	35d	06-Jan-14	09-Feb-14	0%
Construction Programme - Design Development					
Northern Landfall					
North Reclamation (Phase 1)					
Major Procurement					
Temporary Pontoon					
A6415090	Temporary Pontoon - Procurement	57d	27-Jul-13A	03-Oct-13A	100%
A6415100	Temporary Pontoon - Fabrication	36d	29-Nov-13A	07-Jan-14	90%
A6415110	Temporary Pontoon - Delivery to site	6d	08-Jan-14	14-Jan-14	0%
Design Submission					
(B4) AIP Construction Risk Assessment - Impact on North Landfall & Sub-sea Tunnel					
GS01100	Designer to prepare AIP Construction Risk Assessment - Impact on Nth Landfall & CLP Cab	25d	06-Jan-14*	10-Feb-14	0%
GS01105	1st Submission	0d		10-Feb-14	0%
GS01110	SO's Comments for 1st Submission	35d	11-Feb-14	17-Mar-14	0%
GS01115	Prepare Re-submission	10d	18-Mar-14	28-Mar-14	0%
GS01120	2nd Submission	0d		28-Mar-14	0%
GS01125	ICE Cert. Issue	6d	29-Mar-14	04-Apr-14	0%
GS01135	SO Forward Submission to GEO	3d	29-Mar-14	01-Apr-14	0%
GS01140	GEO Review (4 weeks)	28d	02-Apr-14	29-Apr-14	0%
GS01150	SO's Condition Approval	35d	30-Mar-14	03-May-14	0%
(B6) Risk Assessment of Submarine Cable - Reclamation works					
DD68610	Preparation of Risk Assessm ent of Submarine cables - Reclamtion Works	24d	05-Sep-13A	24-Sep-13A	100%
DD68620	1st Submission	0d		24-Sep-13A	100%
DD68630	SO's Comments for 1st Submission	35d	25-Sep-13A	29-Oct-13A	100%
DD68670	Prepare Re-submission	12d	30-Oct-13A	09-Jan-14	60%
DD68680	ICE Cert. Issue	6d	10-Jan-14	16-Jan-14	0%



Actual Work
Planned Milesto...
Planned Bar
Planned Bar - ...

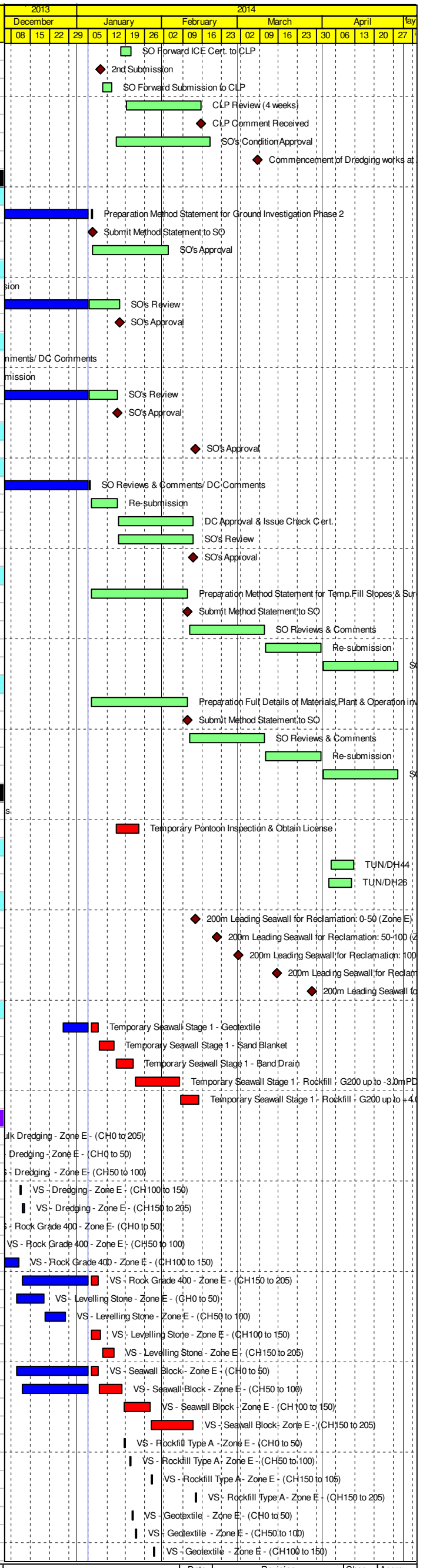
TMCLK - Northern Connection Sub-Sea Tunnel Section

Three-months Rolling Programme

Dragages HongKong
Dragages - Bouygues Joint Venture 寶嘉 - 布依格聯營

Date	Revision	Chec...	Approv...

Activity ID	Activity Name	Orig Dur	Current Start	Current Finish	% Comp
DD68690	SO Forward ICE Cert. to CLP	3d	17-Jan-14	20-Jan-14	0%
DD68700	2nd Submission	0d		09-Jan-14	0%
DD68710	SO Forward Submission to CLP	3d	10-Jan-14	13-Jan-14	0%
DD68720	CLP Review (4 weeks)	28d	19-Jan-14	15-Feb-14	0%
DD68730	CLP Comment Received	0d		15-Feb-14	0%
DD68740	SO's Condition Approval	35d	15-Jan-14	18-Feb-14	0%
DD68750	Commencement of Dredging works at Zone A	0d	08-Mar-14*		0%
Method Statement Submission					
Method Statement of Ground Investigation (Phase 2 - Northern Landfall & Tunnel)					
MS3380	Preparation Method Statement for Ground Investigation Phase 2	18d	18-Nov-13A	06-Jan-14	94.38%
MS3390	Submit Method Statement to SO	0d		06-Jan-14	0%
MS3400	SO's Approval	28d	06-Jan-14	03-Feb-14	0%
Method Statement of Construction Methodology of Dredging & Disposal					
MS1040	Re-submission	9d	25-Sep-13A	15-Nov-13A	100%
MS1060	SO's Review	28d	15-Nov-13A	16-Jan-14	25%
MS1070	SO's Approval	0d		16-Jan-14	0%
Method Statement of Construction Methodology of Sloping & Vertical Seawall					
MS1290	SO Reviews & Comments/ DC Comments	28d	06-Sep-13A	05-Nov-13A	100%
MS1390	Re-submission	9d	06-Nov-13A	21-Nov-13A	100%
MS1470	SO's Review	28d	29-Nov-13A	15-Jan-14	31.25%
MS1480	SO's Approval	0d		15-Jan-14	0%
Method Statement of Construction Methodology of Band Drain Installation					
MS1890	SO's Approval	0d		13-Feb-14	0%
Method Statement of Reclamation Sequence & Methods					
MS1120	SO Reviews & Comments/ DC Comments	28d	29-Oct-13A	05-Jan-14	90%
MS1130	Re-submission	9d	06-Jan-14	15-Jan-14	0%
MS1140	DC Approval & Issue Check Cert.	18d	16-Jan-14	12-Feb-14	0%
MS1150	SO's Review	28d	16-Jan-14	12-Feb-14	0%
MS1160	SO's Approval	0d		12-Feb-14	0%
Method Statement of Temp.Fill Slopes & Surcharge in Reclamation					
MS3100	Preparation Method Statement for Temp.Fill Slopes & Surcharge in Reclamation	25d	06-Jan-14	10-Feb-14	0%
MS3110	Submit Method Statement to SO	0d		10-Feb-14	0%
MS3120	SO Reviews & Comments	28d	11-Feb-14	10-Mar-14	0%
MS3130	Re-submission	18d	11-Mar-14	31-Mar-14	0%
MS3140	SO's Review	28d	01-Apr-14	28-Apr-14	0%
Method Statement of Full Details of Materials,Plant & Operations involved in Diaphragm Wall					
MS3300	Preparation Full Details of Materials,Plant & Operation involved in Diaphragm Wall	25d	06-Jan-14	10-Feb-14	0%
MS3310	Submit Method Statement to SO	0d		10-Feb-14	0%
MS3320	SO Reviews & Comments	28d	11-Feb-14	10-Mar-14	0%
MS3330	Re-submission	18d	11-Mar-14	31-Mar-14	0%
MS3340	SO's Review	28d	01-Apr-14	28-Apr-14	0%
Construction					
DDP09030	Coral Translocation works	9d	21-Oct-13A	28-Oct-13A	100%
DDP10000	Temporary Pontoon Inspection & Obtain License	8d	15-Jan-14	23-Jan-14	0%
Ground Investigation - Phase 2					
A1190	TUN/DH44	7d	04-Apr-14	12-Apr-14	0%
A1853	TUN/DH26	7d	03-Apr-14*	11-Apr-14	0%
Milestones					
NRC10000	200m Leading Seawall for Reclamation: 0-50 (Zone E)	0d	13-Feb-14		0%
NRC10010	200m Leading Seawall for Reclamation: 50-100 (Zone E)	0d	21-Feb-14		0%
NRC10020	200m Leading Seawall for Reclamation: 100-150 (Zone E)	0d	01-Mar-14		0%
NRC10030	200m Leading Seawall for Reclamation: 150-205 (Zone E)	0d	15-Mar-14		0%
NRC10040	200m Leading Seawall for Reclamation: 200-250 (Zone D1)	0d	28-Mar-14		0%
Zone E					
NRC13790	Temporary Seawall Stage 1 - Geotextile	5d	27-Dec-13A	08-Jan-14	0%
NRC13800	Temporary Seawall Stage 1 - Sand Blanket	5d	09-Jan-14	14-Jan-14	0%
NRC13810	Temporary Seawall Stage 1 - Band Drain	6d	15-Jan-14	21-Jan-14	0%
NRC13820	Temporary Seawall Stage 1 - Rockfill - G200 up to -3.0mPD	9d	22-Jan-14	07-Feb-14	0%
NRC13830	Temporary Seawall Stage 1 - Rockfill - G200 up to +4.0mPD	6d	08-Feb-14	14-Feb-14	0%
Vertical Seawall					
NRC10150	VS - Bulk Dredging - Zone E - (CH0 to 205)	4d	18-Nov-13A	21-Nov-13A	100%
NRC10160	VS - Dredging - Zone E - (CH0 to 50)	1d	22-Nov-13A	26-Nov-13A	100%
NRC10170	VS - Dredging - Zone E- (CH50 to 100)	1d	27-Nov-13A	28-Nov-13A	100%
NRC10180	VS - Dredging - Zone E - (CH100 to 150)	1d	11-Dec-13 A	11-Dec-13 A	100%
NRC10190	VS - Dredging - Zone E - (CH150 to 205)	1d	12-Dec-13A	13-Dec-13A	100%
NRC10200	VS - Rock Grade 400 - Zone E- (CH0 to 50)	8d	18-Nov-13A	28-Nov-13A	100%
NRC10210	VS - Rock Grade 400 - Zone E - (CH50 to 100)	8d	29-Nov-13A	02-Dec-13A	100%
NRC10220	VS - Rock Grade 400 - Zone E - (CH100 to 150)	7d	03-Dec-13A	11-Dec-13 A	100%
NRC10230	VS - Rock Grade 400 - Zone E - (CH150 to 205)	7d	12-Dec-13A	08-Jan-14	60%
NRC10240	VS - Levelling Stone - Zone E - (CH0 to 50)	4d	10-Dec-13A	19-Dec-13A	100%
NRC10250	VS - Levelling Stone - Zone E - (CH50 to 100)	4d	20-Dec-13A	28-Dec-13A	100%
NRC10260	VS - Levelling Stone - Zone E - (CH100 to 150)	4d	06-Jan-14	09-Jan-14	0%
NRC10270	VS - Levelling Stone - Zone E - (CH150 to 205)	4d	10-Jan-14	14-Jan-14	0%
NRC10280	VS - Seawall Block - Zone E - (CH0 to 50)	8d	10-Dec-13A	08-Jan-14	30%
NRC10290	VS - Seawall Block - Zone E - (CH50 to 100)	8d	12-Dec-13A	17-Jan-14	10%
NRC10300	VS - Seawall Block - Zone E - (CH100 to 150)	8d	18-Jan-14	27-Jan-14	0%
NRC10310	VS - Seawall Block- Zone E - (CH150 to 205)	8d	28-Jan-14	12-Feb-14	0%
NRC10320	VS - Rockfill Type A - Zone E - (CH0 to 50)	1d	18-Jan-14	18-Jan-14	0%
NRC10330	VS - Rockfill Type A- Zone E - (CH50 to 100)	1d	20-Jan-14	20-Jan-14	0%
NRC10340	VS - Rockfill Type A- Zone E - (CH150 to 105)	1d	28-Jan-14	28-Jan-14	0%
NRC10350	VS - Rockfill Type A- Zone E - (CH150 to 205)	1d	13-Feb-14	13-Feb-14	0%
NRC10360	VS - Geotextile - Zone E - (CH0 to 50)	1d	21-Jan-14	21-Jan-14	0%
NRC10370	VS - Geotextile - Zone E - (CH50 to 100)	1d	22-Jan-14	22-Jan-14	0%
NRC10380	VS - Geotextile - Zone E - (CH100 to 150)	1d	29-Jan-14	29-Jan-14	0%



Actual Work
Planned Milesto...
Planned Bar
Planned Bar - ...

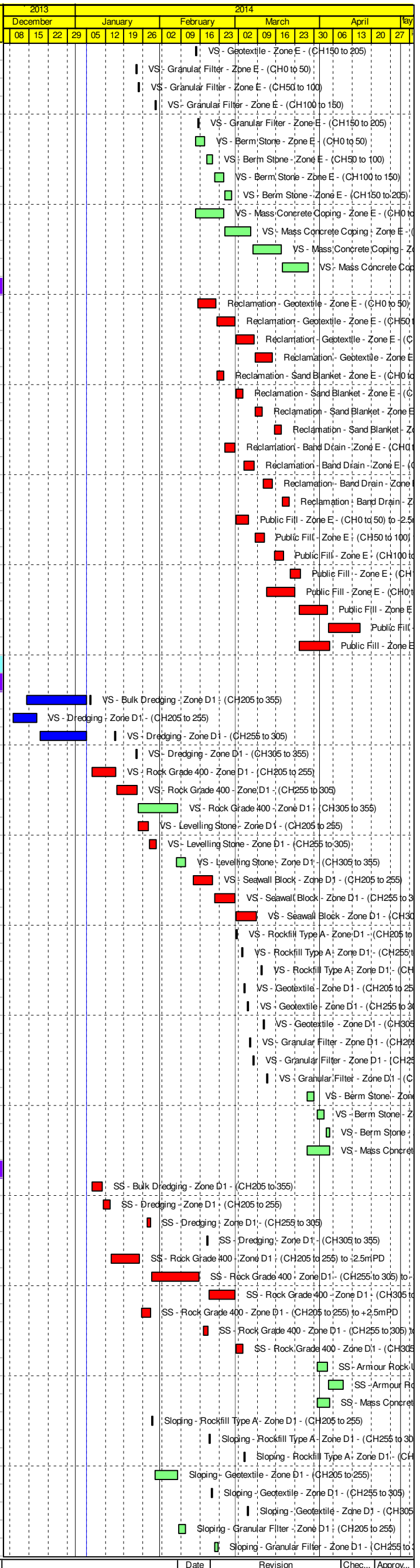
TMCLK - Northern Connection Sub-Sea Tunnel Section

Three-months Rolling Programme

Dragages HongKong 香港寶嘉
Dragages - Bouygues Joint Venture 寶嘉 - 布依格聯營

Date	Revision	Chec...	Approv...

Activity ID	Activity Name	Orig Dur	Current Start	Current Finish	% Comp
NRC10390	VS - Geotextile - Zone E - (CH150 to 205)	1d	14-Feb-14	14-Feb-14	0%
NRC10400	VS - Granular Filter - Zone E - (CH0 to 50)	1d	23-Jan-14	23-Jan-14	0%
NRC10410	VS - Granular Filter - Zone E - (CH50 to 100)	1d	24-Jan-14	24-Jan-14	0%
NRC10420	VS - Granular Filter - Zone E - (CH100 to 150)	1d	30-Jan-14	30-Jan-14	0%
NRC10430	VS - Granular Filter - Zone E - (CH150 to 205)	1d	15-Feb-14	15-Feb-14	0%
NRC10440	VS - Berm Stone - Zone E - (CH0 to 50)	3d	14-Feb-14	17-Feb-14	0%
NRC10450	VS - Berm Stone - Zone E - (CH50 to 100)	3d	18-Feb-14	20-Feb-14	0%
NRC10460	VS - Berm Stone - Zone E - (CH100 to 150)	3d	21-Feb-14	24-Feb-14	0%
NRC10470	VS - Berm Stone - Zone E - (CH150 to 205)	3d	25-Feb-14	27-Feb-14	0%
NRC10480	VS - Mass Concrete Coping - Zone E - (CH0 to 50)	9d	14-Feb-14	24-Feb-14	0%
NRC10490	VS - Mass Concrete Coping - Zone E - (CH50 to 100)	9d	25-Feb-14	06-Mar-14	0%
NRC10500	VS - Mass Concrete Coping - Zone E - (CH100 to 150)	9d	07-Mar-14	17-Mar-14	0%
NRC10510	VS - Mass Concrete Coping - Zone E - (CH150 to 205)	9d	18-Mar-14	27-Mar-14	0%
Reclamation					
NRC10520	Reclamation - Geotextile - Zone E - (CH0 to 50)	6d	15-Feb-14	21-Feb-14	0%
NRC10530	Reclamation - Geotextile - Zone E - (CH50 to 100)	6d	22-Feb-14	28-Feb-14	0%
NRC10540	Reclamation - Geotextile - Zone E - (CH100 to 150)	6d	01-Mar-14	07-Mar-14	0%
NRC10550	Reclamation - Geotextile - Zone E - (CH150 to 205)	6d	08-Mar-14	14-Mar-14	0%
NRC10560	Reclamation - Sand Blanket - Zone E - (CH0 to 50)	2d	22-Feb-14	24-Feb-14	0%
NRC10570	Reclamation - Sand Blanket - Zone E - (CH50 to 100)	2d	01-Mar-14	03-Mar-14	0%
NRC10580	Reclamation - Sand Blanket - Zone E - (CH100 to 150)	2d	08-Mar-14	10-Mar-14	0%
NRC10590	Reclamation - Sand Blanket - Zone E - (CH150 to 205)	2d	15-Mar-14	17-Mar-14	0%
NRC10600	Reclamation - Band Drain - Zone E - (CH0 to 50)	4d	25-Feb-14	28-Feb-14	0%
NRC10610	Reclamation - Band Drain - Zone E - (CH50 to 100)	4d	04-Mar-14	07-Mar-14	0%
NRC10620	Reclamation - Band Drain - Zone E - (CH100 to 150)	4d	11-Mar-14	14-Mar-14	0%
NRC10630	Reclamation - Band Drain - Zone E - (CH150 to 205)	3d	18-Mar-14	20-Mar-14	0%
NRC10640	Public Fill - Zone E - (CH0 to 50) to -2.5mPD	4d	01-Mar-14	05-Mar-14	0%
NRC10650	Public Fill - Zone E - (CH50 to 100) to -2.5mPD	3d	08-Mar-14	11-Mar-14	0%
NRC10660	Public Fill - Zone E - (CH100 to 150) to -2.5mPD	3d	15-Mar-14	18-Mar-14	0%
NRC10670	Public Fill - Zone E - (CH150 to 205) to -2.5mPD	3d	21-Mar-14	24-Mar-14	0%
NRC10680	Public Fill - Zone E - (CH0 to 50) to +2.5mPD	10d	12-Mar-14	22-Mar-14	0%
NRC10690	Public Fill - Zone E - (CH50 to 100) to +2.5mPD	10d	24-Mar-14	03-Apr-14	0%
NRC10700	Public Fill - Zone E - (CH100 to 150) to +2.5mPD	9d	04-Apr-14	15-Apr-14	0%
NRC10720	Public Fill - Zone E - (CH0 to 50) to +6.0mPD	11d	24-Mar-14	04-Apr-14	0%
Zone D1					
Vertical Seawall					
NRC10800	VS - Bulk Dredging - Zone D1 - (CH205 to 355)	4d	14-Dec-13 A	06-Jan-14	60%
NRC10810	VS - Dredging - Zone D1 - (CH205 to 255)	2d	09-Dec-13 A	18-Dec-13 A	100%
NRC10820	VS - Dredging - Zone D1 - (CH255 to 305)	1d	19-Dec-13 A	15-Jan-14	60%
NRC10830	VS - Dredging - Zone D1 - (CH305 to 355)	1d	23-Jan-14	23-Jan-14	0%
NRC10860	VS - Rock Grade 400 - Zone D1 - (CH205 to 255)	8d	07-Jan-14	15-Jan-14	0%
NRC10870	VS - Rock Grade 400 - Zone D1 - (CH255 to 305)	7d	16-Jan-14	23-Jan-14	0%
NRC10880	VS - Rock Grade 400 - Zone D1 - (CH305 to 355)	7d	24-Jan-14	07-Feb-14	0%
NRC10910	VS - Levelling Stone - Zone D1 - (CH205 to 255)	3d	24-Jan-14	27-Jan-14	0%
NRC10920	VS - Levelling Stone - Zone D1 - (CH255 to 305)	3d	28-Jan-14	30-Jan-14	0%
NRC10930	VS - Levelling Stone - Zone D1 - (CH305 to 355)	3d	07-Feb-14	10-Feb-14	0%
NRC10960	VS - Seawall Block - Zone D1 - (CH205 to 255)	7d	13-Feb-14	20-Feb-14	0%
NRC10970	VS - Seawall Block - Zone D1 - (CH255 to 305)	7d	21-Feb-14	28-Feb-14	0%
NRC10980	VS - Seawall Block - Zone D1 - (CH305 to 355)	7d	01-Mar-14	08-Mar-14	0%
NRC11010	VS - Rockfill Type A- Zone D1 - (CH205 to 255)	1d	01-Mar-14	01-Mar-14	0%
NRC11020	VS - Rockfill Type A- Zone D1 - (CH255 to 305)	1d	03-Mar-14	03-Mar-14	0%
NRC11030	VS - Rockfill Type A- Zone D1 - (CH305 to 355)	1d	10-Mar-14	10-Mar-14	0%
NRC11060	VS - Geotextile - Zone D1 - (CH205 to 255)	1d	04-Mar-14	04-Mar-14	0%
NRC11070	VS - Geotextile - Zone D1 - (CH255 to 305)	1d	05-Mar-14	05-Mar-14	0%
NRC11080	VS - Geotextile - Zone D1 - (CH305 to 355)	1d	11-Mar-14	11-Mar-14	0%
NRC11140	VS - Granular Filter - Zone D1 - (CH205 to 255)	1d	06-Mar-14	06-Mar-14	0%
NRC11210	VS - Granular Filter - Zone D1 - (CH255 to 305)	1d	07-Mar-14	07-Mar-14	0%
NRC11280	VS - Granular Filter - Zone D1 - (CH305 to 355)	1d	12-Mar-14	12-Mar-14	0%
NRC11430	VS - Berm Stone - Zone D1 - (CH205 to 255)	3d	27-Mar-14	29-Mar-14	0%
NRC11500	VS - Berm Stone - Zone D1 - (CH255 to 305)	3d	31-Mar-14	02-Apr-14	0%
NRC11570	VS - Berm Stone - Zone D1 - (CH305 to 355)	2d	03-Apr-14	04-Apr-14	0%
NRC11720	VS - Mass Concrete Coping - Zone D1 - (CH205 to 255)	8d	27-Mar-14	04-Apr-14	0%
Sloping Seawall					
NRC11940	SS - Bulk Dredging - Zone D1 - (CH205 to 355)	4d	07-Jan-14	10-Jan-14	0%
NRC12030	SS - Dredging - Zone D1 - (CH205 to 255)	2d	11-Jan-14	13-Jan-14	0%
NRC12070	SS - Dredging - Zone D1 - (CH255 to 305)	2d	27-Jan-14	28-Jan-14	0%
NRC12110	SS - Dredging - Zone D1 - (CH305 to 355)	1d	18-Feb-14	18-Feb-14	0%
NRC12240	SS - Rock Grade 400 - Zone D1 - (CH205 to 255) to -2.5mPD	10d	14-Jan-14	24-Jan-14	0%
NRC12290	SS - Rock Grade 400 - Zone D1 - (CH255 to 305) to -2.5mPD	10d	29-Jan-14	15-Feb-14	0%
NRC12330	SS - Rock Grade 400 - Zone D1 - (CH305 to 355) to -2.5mPD	9d	19-Feb-14	28-Feb-14	0%
NRC12950	SS - Rock Grade 400 - Zone D1 - (CH205 to 255) to +2.5mPD	3d	25-Jan-14	28-Jan-14	0%
NRC13060	SS - Rock Grade 400 - Zone D1 - (CH255 to 305) to +2.5mPD	2d	17-Feb-14	18-Feb-14	0%
NRC13220	SS - Rock Grade 400 - Zone D1 - (CH305 to 355) to +2.5mPD	2d	01-Mar-14	03-Mar-14	0%
NRC13530	SS - Armour Rock Underlayer - Zone D1 - (CH205 to 255)	4d	31-Mar-14	03-Apr-14	0%
NRC13610	SS - Armour Rock Underlayer - Zone D1 - (CH255 to 305)	4d	04-Apr-14	09-Apr-14	0%
NRC14110	SS - Mass Concrete Coping - Zone D1 - (CH205 to 255)	5d	31-Mar-14	04-Apr-14	0%
NRC14160	Sloping - Rockfill Type A- Zone D1 - (CH205 to 255)	1d	29-Jan-14	29-Jan-14	0%
NRC14170	Sloping - Rockfill Type A- Zone D1 - (CH255 to 305)	1d	19-Feb-14	19-Feb-14	0%
NRC14180	Sloping - Rockfill Type A- Zone D1 - (CH305 to 355)	1d	04-Mar-14	04-Mar-14	0%
NRC14210	Sloping - Geotextile - Zone D1 - (CH205 to 255)	2d	30-Jan-14	07-Feb-14	0%
NRC14220	Sloping - Geotextile - Zone D1 - (CH255 to 305)	1d	20-Feb-14	20-Feb-14	0%
NRC14230	Sloping - Geotextile - Zone D1 - (CH305 to 355)	1d	05-Mar-14	05-Mar-14	0%
NRC14260	Sloping - Granular Filter - Zone D1 - (CH205 to 255)	2d	08-Feb-14	10-Feb-14	0%
NRC14270	Sloping - Granular Filter - Zone D1 - (CH255 to 305)	2d	21-Feb-14	22-Feb-14	0%



Actual Work
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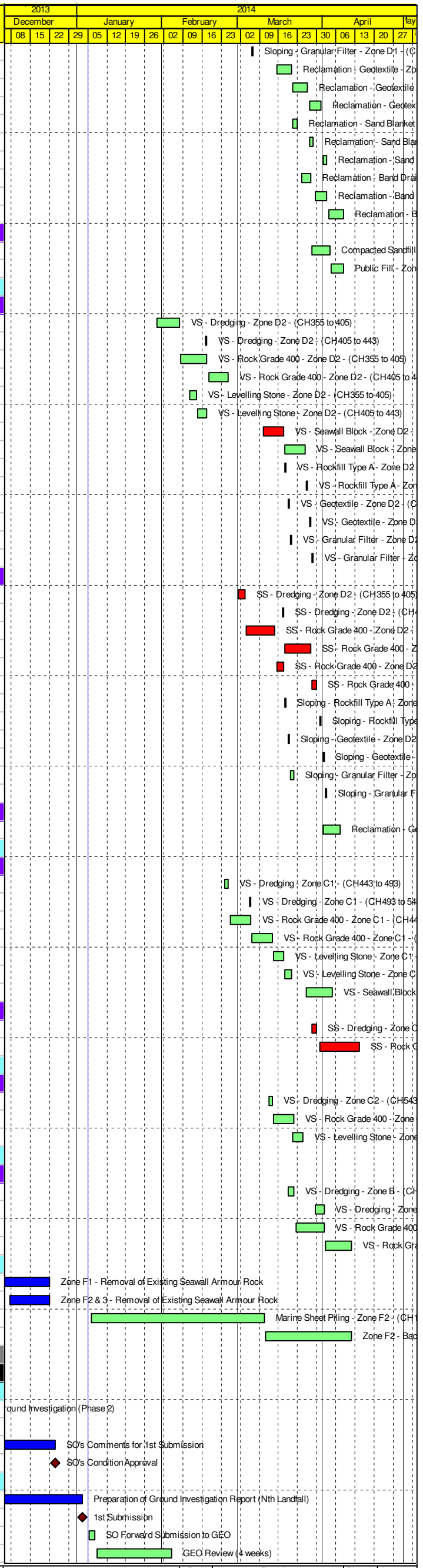
TMCLK - Northern Connection Sub-Sea Tunnel Section

Three-months Rolling Programme

Dragages - Bouygues Joint Venture 寶嘉 - 布依格聯營

Date	Revision	Chec...	Approv...

Activity ID	Activity Name	Orig Dur	Current Start	Current Finish	% Comp
NRC14280	Sloping - Granular Filter - Zone D1 - (CH305 to 355)	1d	06-Mar-14	06-Mar-14	0%
NRC14310	Reclamation - Geotextile - Zone D1 - (CH205 to 255)	5d	15-Mar-14	20-Mar-14	0%
NRC14320	Reclamation - Geotextile - Zone D1 - (CH255 to 305)	5d	21-Mar-14	26-Mar-14	0%
NRC14330	Reclamation - Geotextile - Zone D1 - (CH305 to 355)	4d	27-Mar-14	31-Mar-14	0%
NRC14360	Reclamation - Sand Blanket - Zone D1 - (CH205 to 255)	2d	21-Mar-14	22-Mar-14	0%
NRC14370	Reclamation - Sand Blanket - Zone D1 - (CH255 to 305)	2d	27-Mar-14	28-Mar-14	0%
NRC14380	Reclamation - Sand Blanket - Zone D1 - (CH305 to 355)	2d	01-Apr-14	02-Apr-14	0%
NRC14410	Reclamation - Band Drain - Zone D1 - (CH205 to 255)	4d	24-Mar-14	27-Mar-14	0%
NRC14420	Reclamation - Band Drain - Zone D1 - (CH255 to 305)	4d	29-Mar-14	02-Apr-14	0%
NRC14430	Reclamation - Band Drain - Zone D1 - (CH305 to 355)	4d	03-Apr-14	08-Apr-14	0%
Reclamation					
NRC13260	Compacted Sandfill - Zone D1 - (CH205 to 255) to -2.5mPD	6d	28-Mar-14	03-Apr-14	0%
NRC13290	Public Fill - Zone D1 - (CH205 to 255) to -2.5mPD	3d	04-Apr-14	08-Apr-14	0%
Zone D2					
Vertical Seawall					
NRC10840	VS - Dredging - Zone D2 - (CH355 to 405)	2d	30-Jan-14	07-Feb-14	0%
NRC10850	VS - Dredging - Zone D2 - (CH405 to 443)	1d	17-Feb-14	17-Feb-14	0%
NRC10890	VS - Rock Grade 400 - Zone D2 - (CH355 to 405)	8d	08-Feb-14	17-Feb-14	0%
NRC10900	VS - Rock Grade 400 - Zone D2 - (CH405 to 443)	7d	18-Feb-14	25-Feb-14	0%
NRC10940	VS - Levelling Stone - Zone D2 - (CH355 to 405)	3d	11-Feb-14	13-Feb-14	0%
NRC10950	VS - Levelling Stone - Zone D2 - (CH405 to 443)	3d	14-Feb-14	17-Feb-14	0%
NRC10990	VS - Seawall Block - Zone D2 - (CH355 to 405)	7d	10-Mar-14	17-Mar-14	0%
NRC11000	VS - Seawall Block - Zone D2 - (CH405 to 443)	7d	18-Mar-14	25-Mar-14	0%
NRC11040	VS - Rockfill Type A- Zone D2 - (CH355 to 405)	1d	18-Mar-14	18-Mar-14	0%
NRC11050	VS - Rockfill Type A- Zone D2 - (CH405 to 443)	1d	26-Mar-14	26-Mar-14	0%
NRC11090	VS - Geotextile - Zone D2 - (CH355 to 405)	1d	19-Mar-14	19-Mar-14	0%
NRC11100	VS - Geotextile - Zone D2 - (CH405 to 443)	1d	27-Mar-14	27-Mar-14	0%
NRC11350	VS - Granular Filter - Zone D2 - (CH355 to 405)	1d	20-Mar-14	20-Mar-14	0%
NRC11390	VS - Granular Filter - Zone D2 - (CH405 to 443)	1d	28-Mar-14	28-Mar-14	0%
Sloping Seawall					
NRC12160	SS - Dredging - Zone D2 - (CH355 to 405)	2d	01-Mar-14	03-Mar-14	0%
NRC12200	SS - Dredging - Zone D2 - (CH405 to 443)	1d	17-Mar-14	17-Mar-14	0%
NRC12430	SS - Rock Grade 400 - Zone D2 - (CH355 to 405) to -2.5mPD	10d	04-Mar-14	14-Mar-14	0%
NRC12840	SS - Rock Grade 400 - Zone D2 - (CH405 to 443) to -2.5mPD	9d	18-Mar-14	27-Mar-14	0%
NRC13330	SS - Rock Grade 400 - Zone D2 - (CH355 to 405) to +2.5mPD	2d	15-Mar-14	17-Mar-14	0%
NRC13440	SS - Rock Grade 400 - Zone D2 - (CH405 to 443) to +2.5mPD	2d	28-Mar-14	29-Mar-14	0%
NRC14190	Sloping - Rockfill Type A- Zone D2 - (CH355 to 405)	1d	18-Mar-14	18-Mar-14	0%
NRC14200	Sloping - Rockfill Type A- Zone D2 - (CH405 to 443)	1d	31-Mar-14	31-Mar-14	0%
NRC14240	Sloping - Geotextile - Zone D2 - (CH355 to 405)	1d	19-Mar-14	19-Mar-14	0%
NRC14250	Sloping - Geotextile - Zone D2 - (CH405 to 443)	1d	01-Apr-14	01-Apr-14	0%
NRC14290	Sloping - Granular Filter - Zone D2 - (CH355 to 405)	2d	20-Mar-14	21-Mar-14	0%
NRC14300	Sloping - Granular Filter - Zone D2 - (CH405 to 443)	1d	02-Apr-14	02-Apr-14	0%
Reclamation					
NRC14340	Reclamation - Geotextile - Zone D2 - (CH355 to 405)	5d	01-Apr-14	07-Apr-14	0%
Zone C1					
Vertical Seawall					
NRC14460	VS - Dredging - Zone C1 - (CH443 to 493)	2d	24-Feb-14	25-Feb-14	0%
NRC14470	VS - Dredging - Zone C1 - (CH493 to 543)	1d	05-Mar-14	05-Mar-14	0%
NRC14490	VS - Rock Grade 400 - Zone C1 - (CH443 to 493)	7d	26-Feb-14	05-Mar-14	0%
NRC14500	VS - Rock Grade 400 - Zone C1 - (CH493 to 543)	7d	06-Mar-14	13-Mar-14	0%
NRC14520	VS - Levelling Stone - Zone C1 - (CH443 to 493)	3d	14-Mar-14	17-Mar-14	0%
NRC14530	VS - Levelling Stone - Zone C1 - (CH493 to 543)	3d	18-Mar-14	20-Mar-14	0%
NRC14550	VS - Seawall Block - Zone C1 - (CH443 to 493)	9d	26-Mar-14	04-Apr-14	0%
Sloping Seawall					
NRC14730	SS - Dredging - Zone C1 - (CH443 to 493)	2d	28-Mar-14	29-Mar-14	0%
NRC14760	SS - Rock Grade 400 - Zone C1 - (CH443 to 493) to -2.5mPD	12d	31-Mar-14	14-Apr-14	0%
Zone C2					
Vertical Seawall					
NRC14480	VS - Dredging - Zone C2 - (CH543 to 598)	2d	12-Mar-14	13-Mar-14	0%
NRC14510	VS - Rock Grade 400 - Zone C2 - (CH543 to 598)	7d	14-Mar-14	21-Mar-14	0%
NRC14540	VS - Levelling Stone - Zone C2 - (CH543 to 598)	3d	21-Mar-14	24-Mar-14	0%
Zone B					
Vertical Seawall					
NRC11110	VS - Dredging - Zone B - (CH598 to 648)	3d	19-Mar-14	21-Mar-14	0%
NRC11120	VS - Dredging - Zone B - (CH648 to 698)	3d	29-Mar-14	01-Apr-14	0%
NRC11150	VS - Rock Grade 400 - Zone B - (CH598 to 648)	9d	22-Mar-14	01-Apr-14	0%
NRC11160	VS - Rock Grade 400 - Zone B - (CH648 to 698)	8d	02-Apr-14	11-Apr-14	0%
Zone F					
NRC13840	Zone F1 - Removal of Existing Seawall Armour Rock	25d	01-Nov-13A	22-Dec-13A	100%
NRC13850	Zone F2 & 3 - Removal of Existing Seawall Armour Rock	26d	07-Dec-13A	22-Dec-13A	100%
NRC13860	Marine Sheet Piling - Zone F2 - (CH137 to 261)	49d	06-Jan-14	10-Mar-14	0%
NRC13870	Zone F2 - Backfill and install up to Tie Rod T1 (-7.5mPD)	27d	11-Mar-14	11-Apr-14	0%
North TBM Launching Ramp & Change Diameter Shaft					
Design Submission					
(A4) Additional Ground Investigation Plan - Phase 2 - Northern Landfall & Tunnels					
GS2790	Preparation of Additional Ground Investigation (Phase 2)	11d	18-Sep-13A	25-Oct-13A	100%
GS2800	1st Submission	0d		25-Oct-13A	100%
GS2825	SO's Comments for 1st Submission	35d	30-Nov-13A	24-Dec-13A	100%
GS2830	SO's Condition Approval	0d		24-Dec-13A	100%
(A5) Ground Investigation Report (Northen Landfall)					
GS00700	Preparation of Ground Investigation Report (Nth Landfall)	36d	25-Nov-13A	03-Jan-14A	100%
GS00710	1st Submission	0d		03-Jan-14A	100%
GS00711	SO Forward Submission to GEO	3d	05-Jan-14	07-Jan-14	0%
GS00712	GEO Review (4 weeks)	28d	08-Jan-14	04-Feb-14	0%



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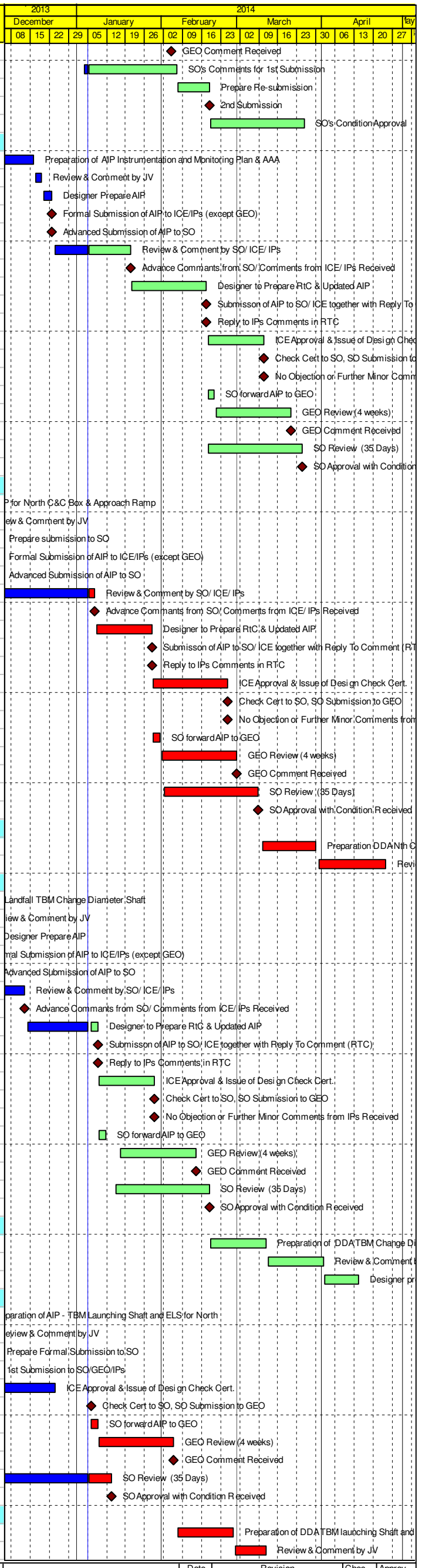
TMCLK - Northern Connection Sub-Sea Tunnel Section

Three-months Rolling Programme

Dragages - Bouygues Joint Venture 寶嘉 - 布依格聯營

Date	Revision	Chec...	Approv...

Activity ID	Activity Name	Orig Dur	Current Start	Current Finish	% Comp
GS00715	GEO Comment Received	0d		04-Feb-14	0%
GS00720	SO's Comments for 1st Submission	35d	04-Jan-14 A	06-Feb-14	0%
GS00730	Prepare Re-submission	10d	07-Feb-14	18-Feb-14	0%
GS00740	2nd Submission	0d		18-Feb-14	0%
GS00780	SO's Condition Approval	35d	19-Feb-14	25-Mar-14	0%
(A18) Instrumentation and Monitoring Plan & AAA Values for North and South Landfalls					
AP01300	Preparation of AIP Instrumentation and Monitoring Plan & AAA	12d	18-Oct-13 A	16-Dec-13 A	100%
AP01305	Review & Comment by JV	12d	17-Dec-13 A	19-Dec-13 A	100%
AP01310	Designer Prepare AIP	6d	20-Dec-13 A	23-Dec-13 A	100%
AP01315	Formal Submission of AIP to ICE/IPs (except GEO)	0d		23-Dec-13 A	100%
AP01320	Advanced Submission of AIP to SO	0d		23-Dec-13 A	100%
AP01325	Review & Comment by SO/ ICE/ IPs	28d	24-Dec-13 A	20-Jan-14	50%
AP01330	Advance Commants from SO/ Comments from ICE/ IPs Received	0d		20-Jan-14	0%
AP01335	Designer to Prepare RtC & Updated AIP	18d	21-Jan-14	17-Feb-14	0%
AP01340	Submisson of AIP to SO/ ICE together with Reply To Comment (RTC)	0d		17-Feb-14	0%
AP01345	Reply to IPs Comments in RTC	0d		17-Feb-14	0%
AP01350	ICE Approval & Issue of Design Check Cert.	18d	18-Feb-14	10-Mar-14	0%
AP01355	Check Cert to SO, SO Submission to GEO	0d		10-Mar-14	0%
AP01360	No Objection or Further Minor Comments from IPs Received	0d		10-Mar-14	0%
AP01365	SO forward AIP to GEO	3d	18-Feb-14	20-Feb-14	0%
AP01370	GEO Review (4 weeks)	28d	21-Feb-14	20-Mar-14	0%
AP01375	GEO Comment Received	0d		20-Mar-14	0%
AP01380	SO Review (35 Days)	35d	18-Feb-14	24-Mar-14	0%
AP01385	SO Approval with Condition Received	0d		24-Mar-14	0%
(C1) AIP - North C&C Box & Approach Ramp					
AP00200	Preparation of AIP for North C&C Box & Approach Ramp	12d	28-Sep-13 A	07-Nov-13 A	100%
AP00205	Review & Comment by JV	6d	08-Nov-13 A	25-Nov-13 A	100%
AP00210	Prepare submission to SO	6d	26-Nov-13 A	03-Dec-13 A	100%
AP00215	Formal Submission of AIP to ICE/IPs (except GEO)	0d		03-Dec-13 A	100%
AP00220	Advanced Submission of AIP to SO	0d		03-Dec-13 A	100%
AP00225	Review & Comment by SO/ ICE/ IPs	28d	04-Dec-13 A	07-Jan-14	75%
AP00230	Advance Commants from SO/ Comments from ICE/ IPs Received	0d		07-Jan-14	0%
AP00235	Designer to Prepare RtC & Updated AIP	18d	08-Jan-14	28-Jan-14	0%
AP00240	Submisson of AIP to SO/ ICE together with Reply To Comment (RTC)	0d		28-Jan-14	0%
AP00245	Reply to IPs Comments in RTC	0d		28-Jan-14	0%
AP00250	ICE Approval & Issue of Design Check Cert.	18d	29-Jan-14	25-Feb-14	0%
AP00255	Check Cert to SO, SO Submission to GEO	0d		25-Feb-14	0%
AP00260	No Objection or Further Minor Comments from IPs Received	0d		25-Feb-14	0%
AP00265	SO forward AIP to GEO	3d	29-Jan-14	31-Jan-14	0%
AP00270	GEO Review (4 weeks)	28d	01-Feb-14	28-Feb-14	0%
AP00275	GEO Comment Received	0d		28-Feb-14	0%
AP00280	SO Review (35 Days)	35d	02-Feb-14	08-Mar-14	0%
AP00285	SO Approval with Condition Received	0d		08-Mar-14	0%
(C1) DDA for North C&C Box & Approach Ramp					
DD00280	Preparation DDA Nth C&C Box and Approach Ramp	18d	10-Mar-14	29-Mar-14	0%
DD00290	Review & Comment by JV	18d	31-Mar-14	24-Apr-14	0%
(D2) AIP Temp.works - Northern Landfall Change Diameter Shaft					
AP01100	Preparation of AIP Nth Landfall TBM Change Diameter Shaft	22d	04-Oct-13 A	30-Oct-13 A	100%
AP01105	Review & Comment by JV	5d	31-Oct-13 A	25-Nov-13 A	100%
AP01110	Designer Prepare AIP	5d	26-Nov-13 A	30-Nov-13 A	100%
AP01115	Formal Submission of AIP to ICE/IPs (except GEO)	0d		26-Nov-13 A	100%
AP01120	Advanced Submission of AIP to SO	0d		30-Nov-13 A	100%
AP01125	Review & Comment by SO/ ICE/ IPs	28d	27-Nov-13 A	13-Dec-13 A	100%
AP01130	Advance Commants from SO/ Comments from ICE/ IPs Received	0d		13-Dec-13 A	100%
AP01135	Designer to Prepare RtC & Updated AIP	18d	14-Dec-13 A	08-Jan-14	70%
AP01140	Submisson of AIP to SO/ ICE together with Reply To Comment (RTC)	0d		08-Jan-14	0%
AP01145	Reply to IPs Comments in RTC	0d		08-Jan-14	0%
AP01150	ICE Approval & Issue of Design Check Cert.	18d	09-Jan-14	29-Jan-14	0%
AP01155	Check Cert to SO, SO Submission to GEO	0d		29-Jan-14	0%
AP01160	No Objection or Further Minor Comments from IPs Received	0d		29-Jan-14	0%
AP01165	SO forward AIP to GEO	3d	09-Jan-14	11-Jan-14	0%
AP01170	GEO Review (4 weeks)	28d	17-Jan-14	13-Feb-14	0%
AP01175	GEO Comment Received	0d		13-Feb-14	0%
AP01180	SO Review (35 Days)	35d	15-Jan-14	18-Feb-14	0%
AP01185	SO Approval with Condition Received	0d		18-Feb-14	0%
(D2) DDA Temp.works - Northern Landfall Change Diameter Shaft					
DD03330	Preparation of DDA TBM Change Diameter Shaft	18d	19-Feb-14	11-Mar-14	0%
DD03340	Review & Comment by JV	18d	12-Mar-14	01-Apr-14	0%
DD03350	Designer prepare DDA	10d	02-Apr-14	14-Apr-14	0%
(D3) AIP Temp.works - TBM Launching Shaft and ELS for North					
AP01200	Preparation of AIP - TBM Launching Shaft and ELS for North	18d	19-Sep-13 A	26-Nov-13 A	100%
AP01205	Review & Comment by JV	18d	27-Nov-13 A	29-Nov-13 A	100%
AP01210	Prepare Formal Submission to SO	12d	30-Nov-13 A	02-Dec-13 A	100%
AP01220	1st Submission to SO/GEO/IPs	0d		02-Dec-13 A	100%
AP01250	ICE Approval & Issue of Design Check Cert.	10d	03-Dec-13 A	24-Dec-13 A	100%
AP01255	Check Cert to SO, SO Submission to GEO	0d		06-Jan-14	0%
AP01265	SO forward AIP to GEO	3d	06-Jan-14	08-Jan-14	0%
AP01270	GEO Review (4 weeks)	28d	09-Jan-14	05-Feb-14	0%
AP01275	GEO Comment Received	0d		05-Feb-14	0%
AP01280	SO Review (35 Days)	35d	03-Dec-13 A	13-Jan-14	80%
AP01285	SO Approval with Condition Received	0d		13-Jan-14	0%
(D3) DDA Temp.works - TBM Launching Shaft and ELS for North					
DD03690	Preparation of DDA TBM launching Shaft and North ELS	18d	07-Feb-14	27-Feb-14	0%
DD03700	Review & Comment by JV	10d	28-Feb-14	11-Mar-14	0%



Actual Work
Planned Milesto...
Planned Bar
Planned Bar - ...

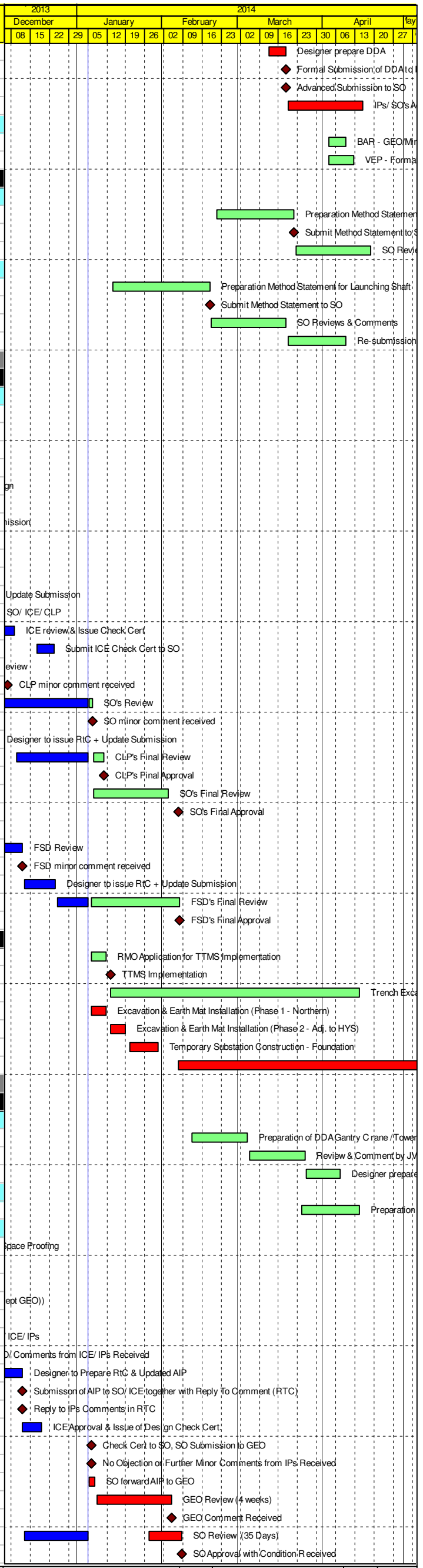
TMCLK - Northern Connection Sub-Sea Tunnel Section

Three-months Rolling Programme

Dragages - Bouygues Joint Venture 寶嘉 - 布依格聯營

Date	Revision	Chec...	Approv...

Activity ID	Activity Name	Orig Dur	Current Start	Current Finish	% Comp
DD03710	Designer prepare DDA	6d	12-Mar-14	18-Mar-14	0%
DD03720	Formal Submission of DDA to ICE/ IPs	0d		18-Mar-14	0%
DD03730	Advanced Submission to SO	0d		18-Mar-14	0%
DD03740	IPs/ SO's Advance Comments/ ICE Comments	28d	19-Mar-14	15-Apr-14	0%
(A21) Blasting Permit, BAR for North Change Diameter Shaft (Target 3mth Float)					
A6414220	BAR - GEO/Mines Dept submission by SO	7d	03-Apr-14	09-Apr-14	0%
A6414270	VEP - Formal Submission to IEC for Endorsement	10d	03-Apr-14	12-Apr-14	0%
Method Statement Submission					
Method Statement of Providing the Groundwater Cut-offs & Pumping Test					
MS1900	Preparation Method Statement for Groundwater Cut-off & Pumping Test	25d	21-Feb-14	21-Mar-14	0%
MS1910	Submit Method Statement to SO	0d		21-Mar-14	0%
MS1920	SO Reviews & Comments	28d	22-Mar-14	18-Apr-14	0%
Method Statement of Construction Methodology of TBM Launching Shaft					
MS1500	Preparation Method Statement for Launching Shaft	25d	14-Jan-14	18-Feb-14	0%
MS1510	Submit Method Statement to SO	0d		18-Feb-14	0%
MS1520	SO Reviews & Comments	28d	19-Feb-14	18-Mar-14	0%
MS1530	Re-submission	18d	19-Mar-14	09-Apr-14	0%
CLP Temporary Substation					
Design Submission					
(D5) DDA Temporary CLP Substation					
DD68760	Prepare Design Layout Plan with CLPP	7d	10-Sep-13A	17-Sep-13A	100%
DD68770	Prepare General Buidling Plan	14d	18-Sep-13A	05-Oct-13A	100%
DD68780	Prepare Drainage Plan	18d	07-Oct-13A	28-Oct-13A	100%
DD68790	Prepare Structural Plan	28d	24-Sep-13A	28-Oct-13A	100%
DD68800	Prepare BS and FS Design	32d	18-Sep-13A	28-Oct-13A	100%
DD68810	Advance Submission to SO/CLP	0d		05-Oct-13A	100%
DD68820	SO/CLP review on JV advance submission	6d	07-Oct-13A	12-Oct-13A	100%
DD68830	Workshop with SO/CLP	0d	15-Oct-13A		100%
DD68840	IPs/ SO's Advance Comment	7d	15-Oct-13A	21-Oct-13A	100%
DD68850	Comments Received	0d		21-Oct-13A	100%
DD68860	Designer to issue RtC + Update Submission	6d	22-Oct-13A	28-Oct-13A	100%
DD68870	Submit Updated DDA to SO/ ICE/ CLP	0d	29-Oct-13A		100%
DD68880	ICE review & Issue Check Cert	12d	29-Oct-13A	09-Dec-13A	100%
DD68890	Submit ICE Check Cert to SO	6d	17-Dec-13A	23-Dec-13A	100%
DD68900	CLP Review	28d	29-Oct-13A	22-Nov-13A	100%
DD68910	CLP minor comment received	0d		06-Dec-13A	100%
DD68920	SO's Review	35d	29-Oct-13A	06-Jan-14	80%
DD68930	SO minor comment received	0d		06-Jan-14	0%
DD68940	Designer to issue RtC + Update Submission	10d	25-Nov-13A	02-Dec-13A	100%
DD68950	CLP's Final Review	14d	10-Dec-13A	10-Jan-14	20%
DD68960	CLP's Final Approval	0d		10-Jan-14	0%
DD68970	SO's Final Review	28d	07-Jan-14	03-Feb-14	0%
DD68980	SO's Final Approval	0d		07-Feb-14	0%
DDP12350	Submit DDA to FSD	0d	18-Oct-13A		100%
DDP12360	FSD Review	28d	19-Oct-13A	12-Dec-13A	100%
DDP12370	FSD minor comment received	0d		12-Dec-13A	100%
DDP12380	Designer to issue RtC + Update Submission	12d	13-Dec-13A	24-Dec-13A	100%
DDP12390	FSD's Final Review	28d	25-Dec-13A	07-Feb-14	0%
DDP12400	FSD's Final Approval	0d		07-Feb-14	0%
Construction					
DDP12550	RMO Application for TTMS Implementation	6d	06-Jan-14	11-Jan-14	0%
DDP12560	TTMS Implementation	0d	13-Jan-14		0%
DDP12720	Trench Excavation & Service Connection	72d	13-Jan-14	14-Apr-14	0%
DDP12730	Excavation & Earth Mat Installation (Phase 1 - Northern)	6d	06-Jan-14	11-Jan-14	0%
DDP12740	Excavation & Earth Mat Installation (Phase 2 - Adj. to HYS)	6d	13-Jan-14	18-Jan-14	0%
DDP12750	Temporary Substation Construction - Foundation	10d	20-Jan-14	30-Jan-14	0%
DDP12760	Temporary Substation Construction - Strucuture	95d	07-Feb-14	05-Jun-14	0%
North Approach TBM Tunnelling					
Design Submission					
(D7) DDA Gantry Crane / Tower Crane Supports/Foundation					
DD69000	Preparation of DDA Gantry Crane /Tower Crane Supports/Foundation	18d	12-Feb-14	04-Mar-14	0%
DD69010	Review & Comment by JV	18d	05-Mar-14	25-Mar-14	0%
DD69020	Designer prepare DDA	10d	26-Mar-14	07-Apr-14	0%
(D8) DDA Thrust Frame for TBM Launching					
DD69140	Preparation of DDA Thrust Frame for TBM Launching	18d	24-Mar-14	14-Apr-14	0%
(G2) AIP - Tunnel Space Proofing - North Approach					
AP2300	Preparation of AIP for North Approach tunnel - Space Proofing	18d	05-Sep-13A	26-Sep-13A	100%
AP2310	Review & Comment by JV	4d	27-Sep-13A	03-Oct-13A	100%
AP2315	Designer Prepare AIP	1d	04-Oct-13A	04-Oct-13A	100%
AP2320	Formal Submission of AIP to ICE/IPs (except GEO))	0d		04-Oct-13A	100%
AP2325	Advanced Submission of AIP to SO	0d		04-Oct-13A	100%
AP2330	Review & Comment by SO/ ICE/ IPs	28d	05-Oct-13A	24-Oct-13A	100%
AP2340	Advance Comment from SO/ Comments from ICE/ IPs Received	0d		24-Oct-13A	100%
AP2350	Designer to Prepare RtC & Updated AIP	18d	25-Oct-13A	12-Dec-13A	100%
AP2360	Submisson of AIP to SO/ ICE together with Reply To Comment (RTC)	0d		12-Dec-13A	100%
AP2365	Reply to IPs Comments in RTC	0d		12-Dec-13A	100%
AP2370	ICE Approval & Issue of Design Check Cert.	18d	12-Dec-13A	19-Dec-13A	100%
AP2380	Check Cert to SO, SO Submission to GEO	0d		06-Jan-14	0%
AP2382	No Objection or Further Minor Comments from IPs Received	0d		06-Jan-14	0%
AP2383	SO forward AIP to GEO	3d	05-Jan-14	07-Jan-14	0%
AP2385	GEO Review (4 weeks)	28d	08-Jan-14	04-Feb-14	0%
AP2387	GEO Comment Received	0d		04-Feb-14	0%
AP2390	SO Review (35 Days)	35d	13-Dec-13A	08-Feb-14	60%
AP2410	SO Approval with Condition Received	0d		08-Feb-14	0%



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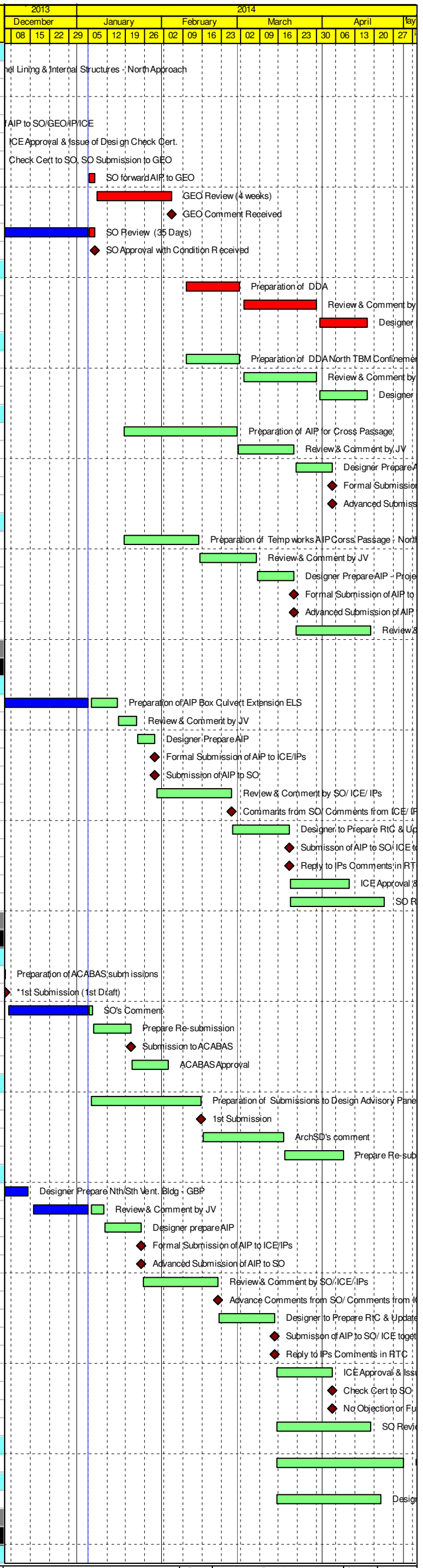
Dragages - Bouygues Joint Venture 寶嘉 - 布依格聯豐

Date	Revision	Chec...	Approv...

Activity ID	Activity Name	Orig Dur	Current Start	Current Finish	% Comp
(G2) AIP - TBM Tunnel Lining & Internal Structures - North Approach					
AP2700	Preparation of AIP for TBM Tunnel Lining & Internal Structures - North Approach	18d	23-Sep-13 A	18-Oct-13 A	100%
AP2710	Review & Comment by JV	12d	19-Oct-13 A	23-Oct-13 A	100%
AP2715	Designer Prepare AIP	12d	24-Oct-13 A	01-Nov-13 A	100%
AP2720	Formal Submission of AIP to SO/GEO/IP/ICE	0d		01-Nov-13 A	100%
AP2770	ICE Approval & Issue of Design Check Cert.	10d	02-Nov-13 A	03-Dec-13 A	100%
AP2780	Check Cert to SO, SO Submission to GEO	0d		03-Dec-13 A	100%
AP2815	SO forward AIP to GEO	3d	05-Jan-14	07-Jan-14	0%
AP2820	GEO Review (4 weeks)	28d	08-Jan-14	04-Feb-14	0%
AP2830	GEO Comment Received	0d		04-Feb-14	0%
AP2840	SO Review (35 Days)	35d	02-Nov-13 A	07-Jan-14	90%
AP2850	SO Approval with Condition Received	0d		07-Jan-14	0%
(G2) DDA for TBM Tunnel Lining Structural Design - North Approach					
DD00700	Preparation of DDA	18d	10-Feb-14	01-Mar-14	0%
DD00705	Review & Comment by JV	24d	03-Mar-14	29-Mar-14	0%
DD00710	Designer prepare DDA	15d	31-Mar-14	17-Apr-14	0%
(G2) DDA for TBM Tunnel Lining Settlement Anlysis & Confinement Pressure - North Approach					
DD00800	Preparation of DDA North TBM Confinement Pressure	18d	10-Feb-14	01-Mar-14	0%
DD00805	Review & Comment by JV	24d	03-Mar-14	29-Mar-14	0%
DD00810	Designer prepare DDA	15d	31-Mar-14	17-Apr-14	0%
(G5) AIP - Cross Passage - Permanent works - North					
AP3270	Preparation of AIP for Cross Passage	30d	18-Jan-14	28-Feb-14	0%
AP3280	Review & Comment by JV	18d	01-Mar-14	21-Mar-14	0%
AP3285	Designer Prepare AIP	12d	22-Mar-14	04-Apr-14	0%
AP3290	Formal Submission of AIP to ICE/IPs (except GEO)	0d		04-Apr-14	0%
AP3295	Advanced Submission of AIP to SO	0d		04-Apr-14	0%
(H2) AIP Temp.works - Cross Passage - North					
AP02110	Preparation of Temp works AIP Corss Passage - North	18d	18-Jan-14	14-Feb-14	0%
AP02120	Review & Comment by JV	18d	15-Feb-14	07-Mar-14	0%
AP02130	Designer Prepare AIP - Project Alignment	12d	08-Mar-14	21-Mar-14	0%
AP02140	Formal Submission of AIP to ICE/IPs (except GEO)	0d		21-Mar-14	0%
AP02150	Advanced Submission of AIP to SO	0d		21-Mar-14	0%
AP02160	Review & Comment by SO/ ICE/ IPs	28d	22-Mar-14	18-Apr-14	0%
Box Culvert Extension					
Design Submission					
(D10) AIP Temp.works - Extension of Existing Culvert adjacent to RTT					
AP01700	Preparation of AIP Box Culvert Extension ELS	18d	02-Dec-13 A	15-Jan-14*	50%
AP01705	Review & Comment by JV	6d	16-Jan-14	22-Jan-14	0%
AP01710	Designer Prepare AIP	6d	23-Jan-14	29-Jan-14	0%
AP01715	Formal Submission of AIP to ICE/IPs	0d		29-Jan-14	0%
AP01720	Submission of AIP to SO	0d		29-Jan-14	0%
AP01725	Review & Comment by SO/ ICE/ IPs	28d	30-Jan-14	26-Feb-14	0%
AP01730	Commants from SO/ Comments from ICE/ IPs Received	0d		26-Feb-14	0%
AP01735	Designer to Prepare RtC & Updated AIP	18d	27-Feb-14	19-Mar-14	0%
AP01740	Submisson of AIP to SO/ ICE together with Reply To Comment (RTC)	0d		19-Mar-14	0%
AP01745	Reply to IPs Comments in RTC	0d		19-Mar-14	0%
AP01750	ICE Approval & Issue of Design Check Cert.	18d	20-Mar-14	10-Apr-14	0%
AP01780	SO Review (35 Days)	35d	20-Mar-14	23-Apr-14	0%
North Ventilation Building					
Design Submission					
(A10) ACABAS Submissions					
GS01600	Preparation of ACABAS submissions	30d	16-Oct-13 A	06-Dec-13 A	100%
GS01610	*1st Submission (1st Draft)	0d		06-Dec-13 A	100%
GS01620	SO's Comment	14d	07-Dec-13 A	06-Jan-14	80%
GS01630	Prepare Re-submission	12d	07-Jan-14	20-Jan-14	0%
GS01640	Submission to ACABAS	0d		20-Jan-14	0%
GS01650	ACABAS Approval	14d	21-Jan-14	03-Feb-14	0%
(A11) Submissons to Design Advisory Panel of ArchSD					
GS01700	Preparation of Submissions to Design Advisory Panel of ArchSD	30d	06-Jan-14	15-Feb-14	0%
GS01710	1st Submission	0d		15-Feb-14	0%
GS01720	ArchSD's comment	30d	16-Feb-14	17-Mar-14	0%
GS01730	Prepare Re-submission	18d	18-Mar-14	08-Apr-14	0%
(I1) AIP - North & South Ventilation Buildings - GBP					
AP00500	Designer Prepare Nth/Sth Vent. Bldg - GBP	36d	04-Nov-13 A	14-Dec-13 A	100%
AP00505	Review & Comment by JV	18d	16-Dec-13 A	10-Jan-14	70%
AP00510	Designer prepare AIP	12d	11-Jan-14	24-Jan-14	0%
AP00515	Formal Submission of AIP to ICE/IPs	0d		24-Jan-14	0%
AP00520	Advanced Submission of AIP to SO	0d		24-Jan-14	0%
AP00525	Review & Comment by SO/ ICE/ IPs	28d	25-Jan-14	21-Feb-14	0%
AP00530	Advance Comments from SO/ Comments from ICE/ IPs Received	0d		21-Feb-14	0%
AP00535	Designer to Prepare RtC & Updated AIP	18d	22-Feb-14	14-Mar-14	0%
AP00540	Submisson of AIP to SO/ ICE together with Reply To Comment (RTC)	0d		14-Mar-14	0%
AP00545	Reply to IPs Comments in RTC	0d		14-Mar-14	0%
AP00550	ICE Approval & Issue of Design Check Cert.	18d	15-Mar-14	04-Apr-14	0%
AP00555	Check Cert to SO	0d		04-Apr-14	0%
AP00560	No Objection or Further Minor Comments from IPs Received	0d		04-Apr-14	0%
AP00565	SO Review (35 Days)	35d	15-Mar-14	18-Apr-14	0%
(I2) AIP - North & South Ventilaiton Buildings - Foundation/Structural Design					
AP00600	Preparation of AIP for North & South Ventilation Bldgs.Foundation/Structural Design	36d	15-Mar-14	30-Apr-14	0%
(C3) AIP for North Ventilation duct/chamber and connection					
AP2900	Designer Prepare AIP - North Vent Duct/Chamber and Connection	29d	15-Mar-14	22-Apr-14	0%
North Surface Roadworks, Utility & Drainage works					
Design Submission					
(A7) Utilities Report					



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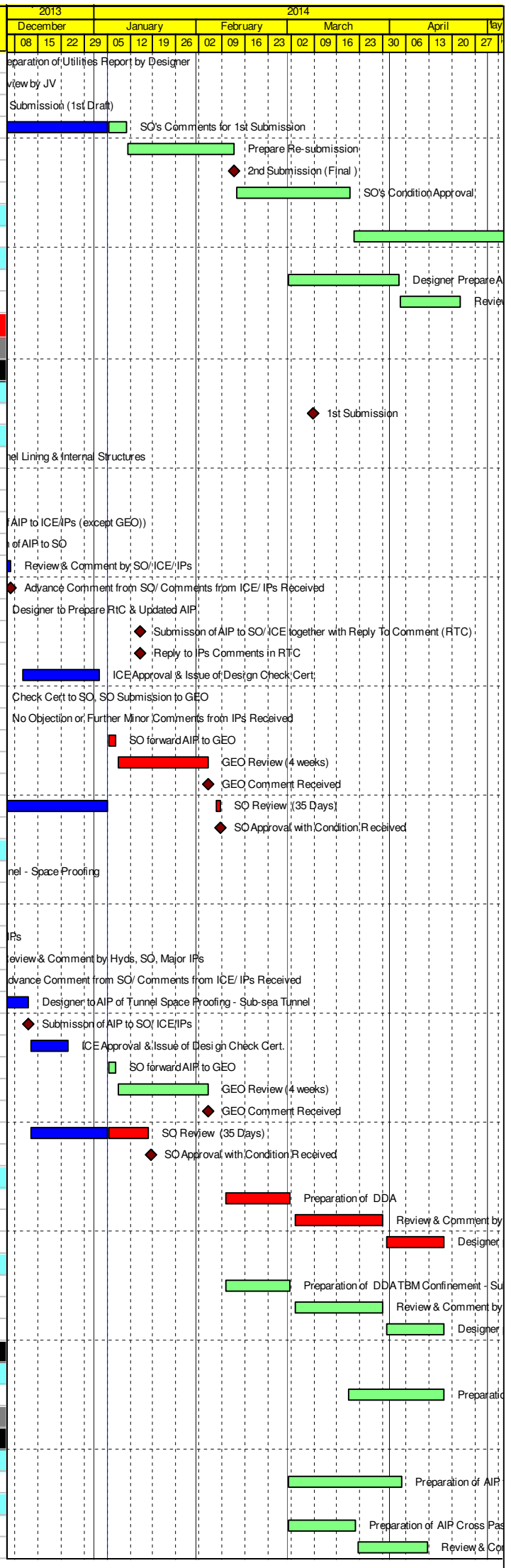
Date	Revision	Chec...	Approv...

Activity ID	Activity Name	Orig Dur	Current Start	Current Finish	% Comp
GS00800	Preparation of Utilities Report by Designer	12d	05-Sep-13 A	27-Nov-13 A	100%
GS00805	Review by JV	12d	06-Nov-13 A	27-Nov-13 A	100%
GS00810	1st Submission (1st Draft)	0d		27-Nov-13 A	100%
GS00820	SO's Comments for 1st Submission	35d	28-Nov-13 A	10-Jan-14	80%
GS00830	Prepare Re-submission	22d	11-Jan-14	12-Feb-14	0%
GS00840	2nd Submission (Final)	0d		12-Feb-14	0%
GS00850	SO's Condition Approval	35d	13-Feb-14	19-Mar-14	0%
(A20) AIP for Traffic Sign, Road Marking, Street Furnitures, Sign Gantry & etc					
AP00800	Design Prepare AIP - Traffic Sign, Road Marking, Street Furnitures, Sign Gantry & etc	36d	21-Mar-14	08-May-14	0%
(C2) AIP - Sewerage, Drainage, Waterworks & Utility works for North and South Landfall					
AP01010	Designer Prepare AIP - Sewage, Drainage, Waterworks & UU	29d	01-Mar-14*	03-Apr-14	0%
AP01015	Review & Comment by JV	12d	04-Apr-14	22-Apr-14	0%
Sub-sea Tunnel					
Sub-sea TBM Tunnelling					
Design Submission					
(B6) Risk Assessment of Submarine Cable - Tunnelling Works					
GS01405	1st Submission	0d		08-Mar-14	0%
(G1) AIP - TBM Tunnel Lining & Internal Structures - Sub-sea tunnel					
AP00300	Preparation of AIP for TBM Tunnel Lining & Internal Structures	18d	12-Oct-13 A	18-Oct-13 A	100%
AP00305	Review & Comment by JV	12d	19-Oct-13 A	23-Oct-13 A	100%
AP00310	Designer Prepare AIP	6d	24-Oct-13 A	01-Nov-13 A	100%
AP00315	Formal Submission of AIP to ICE/IPs (except GEO))	0d		01-Nov-13 A	100%
AP00320	Advanced Submission of AIP to SO	0d		01-Nov-13 A	100%
AP00325	Review & Comment by SO/ ICE/ IPs	28d	02-Nov-13 A	06-Dec-13 A	100%
AP00330	Advance Comment from SO/ Comments from ICE/ IPs Received	0d		06-Dec-13 A	100%
AP00335	Designer to Prepare RtC & Updated AIP	18d	21-Nov-13 A	03-Dec-13 A	100%
AP00340	Submisson of AIP to SO/ ICE together with Reply To Comment (RTC)	0d		15-Jan-14 A	100%
AP00345	Reply to IPs Comments in RTC	0d		15-Jan-14 A	100%
AP00350	ICE Approval & Issue of Design Check Cert.	18d	10-Dec-13 A	02-Jan-14 A	100%
AP00355	Check Cert to SO, SO Submission to GEO	0d		03-Dec-13 A	100%
AP00360	No Objection or Further Minor Comments from IPs Received	0d		03-Dec-13 A	100%
AP00365	SO forward AIP to GEO	3d	05-Jan-14	07-Jan-14	0%
AP00370	GEO Review (4 weeks)	28d	08-Jan-14	04-Feb-14	0%
AP00375	GEO Comment Received	0d		04-Feb-14	0%
AP00380	SO Review (35 Days)	35d	03-Dec-13 A	08-Feb-14	75%
AP00385	SO Approval with Condition Received	0d		08-Feb-14	0%
(G1) AIP - Tunnel Space Proofing - Sub-sea tunnel					
AP2500	Preparation of Technical Proposal of Sub-sea Tunnel - Space Proofing	18d	03-Sep-13 A	24-Sep-13 A	100%
AP2510	Review & comment by JV	8d	25-Sep-13 A	28-Sep-13 A	100%
AP2515	Prepare Formal Submission	1d	29-Sep-13 A	04-Oct-13 A	100%
AP2520	Proposal Submission to Hyds, SO, Major IPs	0d		04-Oct-13 A	100%
AP2530	Review & Comment by Hyds, SO, Major IPs	28d	05-Oct-13 A	29-Nov-13 A	100%
AP2540	Advance Comment from SO/ Comments from ICE/ IPs Received	0d		29-Nov-13 A	100%
AP2550	Designer to AIP of Tunnel Space Proofing - Sub-sea Tunnel	18d	29-Nov-13 A	12-Dec-13 A	100%
AP2560	Submisson of AIP to SO/ ICE/IPs	0d		12-Dec-13 A	100%
AP2570	ICE Approval & Issue of Design Check Cert.	10d	13-Dec-13 A	24-Dec-13 A	100%
AP2583	SO forward AIP to GEO	3d	05-Jan-14	07-Jan-14	0%
AP2585	GEO Review (4 weeks)	28d	08-Jan-14	04-Feb-14	0%
AP2587	GEO Comment Received	0d		04-Feb-14	0%
AP2590	SO Review (35 Days)	35d	13-Dec-13 A	17-Jan-14	70%
AP2610	SO Approval with Condition Received	0d	18-Jan-14		0%
(G1) DDA for TBM Tunnel Lining Structural Design - Sub-sea tunnel					
DD6490	Preparation of DDA	18d	10-Feb-14	01-Mar-14	0%
DD6500	Review & Comment by JV	24d	03-Mar-14	29-Mar-14	0%
DD6505	Designer prepare DDA	15d	31-Mar-14	17-Apr-14	0%
(G1) DDA for TBM Tunnel Lining Settlement Anlysis & Confinement Pressure - Sub-sea tunnel					
DD6690	Preparation of DDA TBM Confinement - Sub-sea tunnel	18d	10-Feb-14	01-Mar-14	0%
DD6700	Review & Comment by JV	24d	03-Mar-14	29-Mar-14	0%
DD6705	Designer prepare DDA	15d	31-Mar-14	17-Apr-14	0%
Method Statement Submission					
Method Statement of TBM Tunnel Precast Segment Formwork					
MS2400	Preparation Method Statement for TBM Tunnel Precast Segment Formwork	25d	19-Mar-14	17-Apr-14	0%
Sub-sea Tunnel Cross Passage & Internal Structure					
Design Submission					
(G4) AIP - Cross Passage - Sub-sea tunnel					
AP00400	Preparation of AIP for Cross Passage	30d	01-Mar-14	04-Apr-14	0%
(H1) AIP Temp.works - Cross Passage - Sub-sea tunnel					
AP01400	Preparation of AIP Cross Passage - Ground Freezing	18d	01-Mar-14	21-Mar-14	0%
AP01405	Review & Comment by JV	18d	22-Mar-14	12-Apr-14	0%



Actual Work
Planned Milesto...
Planned Bar
Planned Bar - ...

TMCLK - Northern Connection Sub-Sea Tunnel Section

Three-months Rolling Programme

Dragages Hong Kong
Dragages - Bouygues Joint Venture 寶嘉 - 布依格聯營

Date	Revision	Chec...	Approv...

Appendix C

Environmental Mitigation and Enhancement Measure Implementation Schedules

Contract No. HY/2012/08
TUEN MUN – CHEK LAP KOK LINK
Northern Connection Sub-sea Tunnel Section

ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Air Quality

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
4.8.1	3.8	An effective watering programme of twice 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		✓
4.8.1	3.8	Watering of the construction sites in Lantau for 8 times/day and in Tuen Mun for 12 times/day to reduce dust emissions by 87.5% and 91.7% respectively and shall be undertaken.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
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		✓
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		✓
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		✓

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Contract No. HY/2012/08
TUEN MUN – CHEK LAP KOK LINK
Northern Connection Sub-sea Tunnel Section

ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Air Quality

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
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		✓
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		✓
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 shall be dampened or covered before transport.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
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		✓
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	All site exits / throughout construction period	Contractor	TMEIA Avoid dust		Y		✓

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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Air Quality

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
		any earthworks excavation activity on the site.							
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		✓
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		<>
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		✓

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Contract No. HY/2012/08
TUEN MUN – CHEK LAP KOK LINK
Northern Connection Sub-sea Tunnel Section

ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Water Quality

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
Marine Works (Sequence A)									
6.10 Figure 6.2a Appendix D6a	Annex A	Construction of seawalls to be advanced by at least 200m before the main reclamation dredging and filling can commence. The protection by advanced seawall is a dynamic process depending on the progress of the construction activities and the stage when such protection could be realised is illustrated in Figure 6.2a and detailed in Appendix D6a. The part of the works where such measures can be undertaken for the majority of the time includes the following locations: - TM-CLKL northern reclamation;	All areas/ prior to dredging and backfilling works	Contractor	TM-EIAO		Y		N/A

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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Water Quality

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
6.10	-	a maximum of 50% public fill to be used for all seawall filling below +2.5mPD for TM-CLKL southern and northern landfalls.	TM-CLKL seawall filling	Contractor	TM-EIAO		Y		N/A
6.10	-	a maximum of 30% public fill to be used for reclamation filling below +2.5mPD for TM-CLKL southern landfall	TM-CLKL southern landfall reclamation filling	Contractor	TM-EIAO		Y		N/A
6.10	-	a maximum of 100% public fill to be used for reclamation filling below +2.5mPD for TM-CLKL northern landfall	TM-CLKL northern landfall reclamation filling	Contractor	TM-EIAO		Y		N.A
6.10	-	Use of cage type silt curtains round all	All areas dredging works	Contractor	TM-EIAO		Y		<>

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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Water Quality

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
		grab dredgers during the HKBCF, HKLR and TM-CLKL southern reclamation works.							
	Figure 1.1 of Annex C	A layer of floating type silt curtain will be applied when dredging and reclamation works are being undertaken at Portion N-a as shown in Figure 1.1 of Annex C of the EM&A Manual.	All areas/ through out marine works	Contractor	TM-EIAO		Y		✓
6.10	-	Trailer suction hopper dredgers shall not allow mud to overflow.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		✓
6.10	-	The use of Lean Material Overboard (LMOB) systems shall be prohibited.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		✓

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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Water Quality

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
6.10 Figure 6.2b Appendix D6b	Annex A	For other parts of the reclamation works construction of seawalls to be advanced by at least 200m before the main reclamation dredging and filling can commence. It should be noted that the protection by advanced seawall is a dynamic process depending on the progress of the construction activities and the stage when such protection could be realised is illustrated in Figure 6.2b and detailed in Appendices D6b. The part of the works where such measures can be undertaken for the majority of the time includes the following locations: - TM-CLKL northern reclamation; - Reclamation filling for Portion D of HKBCF; Reclamation filling for FSD berth of HKBCF; and - Reclamation dredging and filling for Portion 1 of HKLR;	TM-CLKL northern landfall, Portion D of HKBCF and HKLR	Contractor	TM-EIAO		Y		N/A

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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Water Quality

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
6.10	-	The filling material for the other parts of the works are the same as Sequence A;	All other areas/backfilling works	Contractor	TM-EIAO		Y		N/A
6.10	5.7	Cage type silt curtain (with steel enclosure) shall be used for grab dredgers working in the site of HKBCF and TM-CLKL southern reclamation. Cage type silt curtains will be applied round all grab dredgers at other works area	HKBCF, HKLR and TM-CLKL grab dredging	Contractor	TM-EIAO		Y		✓
6.10	Annex A	A layer of floating type silt curtain will be applied around all works as defined in Appendix D6b	All areas/ through out marine works	Contractor	TM-EIAO		Y		✓
6.10	-	TM-CLKL northern landfall: - Reclamation filling shall not proceed until at least 200m section of leading seawall at both the east and west sides	All areas/ through out marine works	Contractor	TM-EIAO		Y		N/A

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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Water Quality

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
		of the reclamation are formed above +2.5 mPD, except for 100m gaps for marine access;							
General Marine Works									
6.10	-	Use of TMB for the construction of the submarine tunnel.	Tunnel works / Construction phase	Contractor	TM-EIAO		Y		N/A
6.10	-	Export dredged spoils from NWWCZ.	All areas as much as possible / dredging activities	Contractor	DASO Permit conditions		Y		N/A
6.10	-	Where public fill is proposed for filling below +2.5mPD, the fine content in the public fill will be controlled to 25%	All areas/ backfilling works	Contractor	TM-EIAO		Y		N/A
6.10	-	Where sand fill is proposed for filling	All areas/ backfilling works	Contractor	TM-EIAO		Y		N.A

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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Water Quality

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
		below +2.5mPD, the fine content in the sand fill will be controlled to 5%.							
6.10	-	Mechanical grabs shall be designed and maintained to avoid spillage and should seal tightly while being lifted.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		<>
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 permit conditions.		Y		✓
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		✓
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		<>

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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Water Quality

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
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		✓
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		✓
6.10	5.2	Silt curtain shall have proved effectiveness from the producer and shall be fully maintained throughout the works by the	All areas/ throughout construction period	Contractor	TM-EIAO		Y		<>

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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Water Quality

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
		contractor.							
6.10	-	The daily maximum production rates shall not exceed those assumed in the water quality assessment.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	The dredging and filling works shall be scheduled to spread the works evenly over a working day.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
Land Works									
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		✓
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		✓
6.10	-	Storm drainage shall be directed to storm	All areas/ throughout	Contractor	TM-EIAO		Y		✓

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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Water Quality

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
		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.	construction period						
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		✓
6.10	-	Temporary access roads should be surfaced with crushed stone or gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
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		✓
6.10	-	Measures should be taken to prevent the washout of construction materials, soil, silt	All areas/ throughout construction period	Contractor	TM-EIAO		Y		<>

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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Water Quality

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
		or debris into any drainage 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		✓
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		✓
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		✓
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		✓

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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Water Quality

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
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		✓
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		✓
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		✓
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	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓

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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Water Quality

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
		cleaned up immediately.							
6.10	-	Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance.	All areas/ throughout construction period	Contractor	TM-EIAO Waste Disposal Ordinance		Y		<>
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		✓
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	✓
6.10	Section 5	All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good	All areas/ throughout construction period	Contractor	EM&A Manual		Y		✓

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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Water Quality

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
		working practice.							
Water Quality Monitoring									
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	✓

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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Ecology

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
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	✓
8.14	6.3,6.5	Specification and implementation of 250m dolphin exclusion zone.	All dredging and reclamation areas/Detailed Design/during all reclamation and dredging works	Design Consultant/ Contractor	TMEIA	Y	Y		✓
8.15	6.3, 6.5	Specification and deployment of an artificial reef of an area of 3,600m^2 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	✓

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

ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Ecology

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
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		✓
8.14	6.3, 6.5	Design and implementation of acoustic decoupling methods for dredging and reclamation works	All areas/ Detailed Design/during dredging and reclamation works	Design Consultant/ Contractor	TMEIA	Y	Y		✓
8.15	6.3, 6.4	Pre-construction phase survey and coral translocation	Detailed Design/Prior to construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓
8.15	6.5	Audit coral translocation success	Post translocation	Contractor	TMEIA		Y		**N/A**

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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Ecology

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
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		✓
7.13	6.5	Spoil heaps shall be covered at all times.	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Avoid damage and disturbance to the remaining and surrounding natural habitat	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Placement of equipment in designated areas within the existing disturbed land	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Disturbed areas to be reinstated immediately after completion of the works.	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Construction activities should be restricted to the proposed works boundary	All areas / Throughout construction period	Contractor	TMEIA		Y		✓

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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Landscape and Visual

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
10.9	7.6	The colour and shape of the toll control buildings, ventilation building and administration building shall adopt a design which could blend it into the vicinity elements, and the details will be developed in detailed design stage (DM2)	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

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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Landscape and Visual

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
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		✓
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		✓
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		✓

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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Landscape and Visual

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
10.9	7.6	Aesthetically pleasing design (visually unobtrusive and non-reflective) as regard to the form, material and finishes shall be incorporated to all buildings, engineering structures and associated infrastructure facilities (OM5)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	N/A
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (OM6)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	✓

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

ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Waste

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
12.6		The Contractor shall identify a coordinator for the management of waste.	Contract mobilisation	Contractor	TMEIA		Y		✓
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		✓
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		✓
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedures	Contract Mobilisation	Contractor	TMEIA		Y		✓

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

ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Waste

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
		including waste reduction, reuse and recycling							
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		✓
12.6	8.1	The surplus surcharge should be transferred to a fill bank	Reclamation areas / after surcharge works	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

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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Waste

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
12.6	8.1	The site and surroundings shall be kept tidy and litter free.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	No waste shall be burnt on site.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
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			✓
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		✓
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		✓
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		✓
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		✓

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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Waste

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
12.6	8.1	Dredged marine mud shall be disposed of in a gazetted marine disposal ground under the requirements of the Dumping at Seas Ordinance.	Reclamation areas / throughout dredging works	Contractor	TMEIA		Y		✓
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		✓
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 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	All areas / throughout construction period	Contractor	TMEIA		Y		✓

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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Waste

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
		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		✓
12.6	8.1	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: ƒ suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed; ƒ Having a capacity of <450L unless the specifications have been approved by the EPD; and ƒ Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations. ƒ Clearly labelled and used solely for the storage of chemical wastes; ƒ Enclosed with at least 3 sides; ƒ Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20%	All areas / throughout construction period	Contractor	TMEIA		Y		<>

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Note: Funding Agent for all mitigation measures will be the Highways Department of the Hong Kong SAR Government

ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Waste

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
		by volume of the chemical waste stored in the area, whichever is greatest; ƒ Adequate ventilation; ƒ Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and ƒ Incompatible materials are adequately 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		✓
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		✓
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	All areas / throughout construction period	Contractor	TMEIA		Y		✓

Legend: D=Design, C=Construction, O=Operation
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ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Waste

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
		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.							
12.6	8.1	All waste containers shall be in a secure area on hardstanding;	All areas / throughout construction period	Contractor	TMEIA		Y		<>
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		✓
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		✓
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		✓

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

Contract No. HY/2012/08
TUEN MUN – CHEK LAP KOK LINK
Northern Connection Sub-sea Tunnel

ENVIRONMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Cultural Heritage

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
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		✓

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

Remark:

✓ Compliance of Mitigation Measures

<> Compliance of Mitigation but need improvement

x Non-compliance of Mitigation Measures

▲ Non-compliance of Mitigation Measures but rectified by Contractor

Δ Deficiency of Mitigation Measures but rectified by Contractor

N/A Not Applicable in Reporting Period

Appendix D

Summary of Action and Limit Levels

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

Parameters	Action	Limit
24 Hour TSP Level in μg/m³	ASR1 = 213 ASR5 = 238 AQMS1 = 213 AQMS2 = 238 ASR10 = 214	260
1 Hour TSP Level in μg /m³	ASR1 = 331 ASR5 = 340 AQMS1 = 335 AQMS2 = 338 ASR10 = 337	500

Table D2 Action and Limit Levels for Water Quality

Parameter	Action Level#	Limit Level#
DO in mg/L [(a)]	Surface and Middle **5.0 mg/L** Bottom **4.7 mg/L**	Surface and Middle **4.2 mg/L** Bottom **3.6 mg/L**
Turbidity in NTU (Depth-averaged [(b), (c)])	120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e., **27.5 NTU**	130% of upstream control station at the same tide of the same day and 99%-ile of baseline data, i.e., **47.0 NTU**
SS in mg/L (Depth-averaged [(b), (c)])	120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e., **23.5 mg/L**	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., **34.4 mg/L**

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

(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 D3 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	

Notes:

1. STG means quarterly encounter rate of number of dolphin sightings, which is **6.00 in NEL** and **9.85 in NWL** during the baseline monitoring period
2. ANI means quarterly encounter rate of total number of dolphins, which is **22.19 in NEL** and **44.66 in NWL** 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 D4 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

Copies of Calibration Certificates for Air Quality and Water Quality Monitoring

High-Volume TSP Sampler
5-Point Calibration Record

Location	:	ASR 5
Calibrated by	:	P.F.Yeung
Date	:	09/12/2013

Sampler

Model	:	TE-5170
Serial Number	:	S/N 0816

Calibration Orfice and Standard Calibration Relationship

Serial Number	:	2323
Service Date	:	26 Dec 2012
Slope (m)	:	2.09107
Intercept (b)	:	-0.02838
Correlation Coefficient(r)	:	0.99996

Standard Condition

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

Calibration Condition

Pa (hpa)	:	1014
Ta(K)	:	293

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	12.4	3.553	1.713	53	53.48
2	13 holes	10.0	3.190	1.539	48	48.43
3	10 holes	7.4	2.745	1.326	42	42.38
4	7 holes	4.6	2.164	1.048	34	34.31
5	5 holes	2.8	1.688	0.821	26	26.23

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):30.020 Intercept(b): 2.020 Correlation Coefficient(r): 0.9990

Checked by: Magnum Fan Date: 15/12/2013

High-Volume TSP Sampler
5-Point Calibration Record

Location	:	ASR10A
Calibrated by	:	P.F.Yeung
Date	:	09/12/2013

Sampler

Model	:	TE-5170
Serial Number	:	S/N 8162

Calibration Orfice and Standard Calibration Relationship

Serial Number	:	2323
Service Date	:	26 Dec 2012
Slope (m)	:	2.09107
Intercept (b)	:	-0.02838
Correlation Coefficient(r)	:	0.99996

Standard Condition

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

Calibration Condition

Pa (hpa)	:	1014
Ta(K)	:	293

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	12.8	3.610	1.740	62	62.56
2	13 holes	10.6	3.285	1.585	55	55.49
3	10 holes	7.8	2.818	1.361	45	45.40
4	7 holes	5.0	2.256	1.093	34	34.31
5	5 holes	3.1	1.777	0.863	22	22.20

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):45.377 Intercept(b): -16.281 Correlation Coefficient(r): 0.9991

Checked by: Magnum Fan Date: 15/12/2013

High-Volume TSP Sampler
5-Point Calibration Record

Location	:	AQM1
Calibrated by	:	P.F.Yeung
Date	:	09/12/2013

Sampler

Model	:	TE-5170
Serial Number	:	S/N 1253

Calibration Orfice and Standard Calibration Relationship

Serial Number	:	2323
Service Date	:	26 Dec 2012
Slope (m)	:	2.09107
Intercept (b)	:	-0.02838
Correlation Coefficient(r)	:	0.99996

Standard Condition

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

Calibration Condition

Pa (hpa)	:	1014
Ta(K)	:	293

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	12.8	3.610	1.740	52	52.47
2	13 holes	10.0	3.191	1.539	46	46.41
3	10 holes	7.4	2.745	1.326	39	39.35
4	7 holes	4.6	2.164	1.048	32	32.29
5	5 holes	2.9	1.718	0.835	25	25.22

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):29.770 Intercept(b): 0.512 Correlation Coefficient(r): 0.9991

Checked by: Magnum Fan Date: 15/12/2013

High-Volume TSP Sampler
5-Point Calibration Record

Location	:	ASR 1
Calibrated by	:	P.F.Yeung
Date	:	09/12/2013

Sampler

Model	:	TE-5170
Serial Number	:	S/N 0146

Calibration Orfice and Standard Calibration Relationship

Serial Number	:	2323
Service Date	:	26 Dec 2012
Slope (m)	:	2.09107
Intercept (b)	:	-0.02838
Correlation Coefficient(r)	:	0.99996

Standard Condition

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

Calibration Condition

Pa (hpa)	:	1014
Ta(K)	:	293

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	13.0	3.638	1.753	53	53.48
2	13 holes	10.2	3.222	1.555	46	46.41
3	10 holes	7.4	2.745	1.326	40	40.36
4	7 holes	4.9	2.234	1.082	31	31.28
5	5 holes	3.0	1.748	0.849	24	24.22

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):32.296 Intercept(b): -3.257 Correlation Coefficient(r): 0.9990

Checked by: Magnum Fan Date: 15/12/2013

High-Volume TSP Sampler
5-Point Calibration Record

Location	:	ASR 6A
Calibrated by	:	P.F.Yeung
Date	:	09/12/2013

Sampler

Model	:	TE-5170
Serial Number	:	S/N 3957

Calibration Orfice and Standard Calibration Relationship

Serial Number	:	2323
Service Date	:	26 Dec 2012
Slope (m)	:	2.09107
Intercept (b)	:	-0.02838
Correlation Coefficient(r)	:	0.99996

Standard Condition

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

Calibration Condition

Pa (hpa)	:	1014
Ta(K)	:	293

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	12.4	3.553	1.713	55	55.49
2	13 holes	9.7	3.142	1.516	49	49.44
3	10 holes	7.0	2.670	1.290	42	42.38
4	7 holes	4.5	2.140	1.037	34	34.31
5	5 holes	2.8	1.688	0.821	26	26.23

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):32.563 Intercept(b): 0.037 Correlation Coefficient(r): 0.9993

Checked by: Magnum Fan Date: 15/12/2013

High-Volume TSP Sampler
5-Point Calibration Record

Location	:	ASR 5
Calibrated by	:	P.F.Yeung
Date	:	09/10/2013

Sampler

Model	:	TE-5170
Serial Number	:	S/N 0816

Calibration Orfice and Standard Calibration Relationship

Serial Number	:	2323
Service Date	:	26 Dec 2012
Slope (m)	:	2.09107
Intercept (b)	:	-0.02838
Correlation Coefficient(r)	:	0.99996

Standard Condition

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

Calibration Condition

Pa (hpa)	:	1017
Ta(K)	:	299

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	12.5	3.537	1.705	52	52.02
2	13 holes	9.7	3.115	1.503	45	45.01
3	10 holes	7.6	2.758	1.332	40	40.01
4	7 holes	4.7	2.169	1.051	31	31.01
5	5 holes	3.0	1.733	0.842	24	24.01

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):32.148 Intercept(b): -2.953 Correlation Coefficient(r): 0.9997

Checked by: Magnum Fan Date: 20/10/2013

High-Volume TSP Sampler
5-Point Calibration Record

Location	:	ASR10A
Calibrated by	:	P.F.Yeung
Date	:	15/10/2013

Sampler

Model	:	TE-5170
Serial Number	:	S/N 8162

Calibration Orfice and Standard Calibration Relationship

Serial Number	:	2323
Service Date	:	26 Dec 2012
Slope (m)	:	2.09107
Intercept (b)	:	-0.02838
Correlation Coefficient(r)	:	0.99996

Standard Condition

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

Calibration Condition

Pa (hpa)	:	1013
Ta(K)	:	301

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	13.0	3.588	1.729	59	58.71
2	13 holes	10.4	3.209	1.548	52	51.74
3	10 holes	7.8	2.779	1.343	45	44.78
4	7 holes	5.0	2.225	1.078	36	35.82
5	5 holes	3.0	1.723	0.838	28	27.86

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):34.384 Intercept(b): 1.161 Correlation Coefficient(r): 0.9997

Checked by: Magnum Fan Date: 20/10/2013

High-Volume TSP Sampler
5-Point Calibration Record

Location	:	AQM1
Calibrated by	:	P.F.Yeung
Date	:	17/10/2013

Sampler

Model	:	TE-5170
Serial Number	:	S/N 1253

Calibration Orfice and Standard Calibration Relationship

Serial Number	:	2323
Service Date	:	26 Dec 2012
Slope (m)	:	2.09107
Intercept (b)	:	-0.02838
Correlation Coefficient(r)	:	0.99996

Standard Condition

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

Calibration Condition

Pa (hpa)	:	1017
Ta(K)	:	299

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	13.4	3.662	1.765	56	56.02
2	13 holes	9.4	3.067	1.480	47	47.01
3	10 holes	7.5	2.739	1.324	41	41.01
4	7 holes	5.0	2.237	1.083	33	33.01
5	5 holes	3.0	1.733	0.842	26	26.01

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):32.944 Intercept(b): -2.175 Correlation Coefficient(r): 0.9990

Checked by: Magnum Fan Date: 20/10/2013

High-Volume TSP Sampler
5-Point Calibration Record

Location	:	ASR 1
Calibrated by	:	P.F.Yeung
Date	:	17/10/2013

Sampler

Model	:	TE-5170
Serial Number	:	S/N 0146

Calibration Orfice and Standard Calibration Relationship

Serial Number	:	2323
Service Date	:	26 Dec 2012
Slope (m)	:	2.09107
Intercept (b)	:	-0.02838
Correlation Coefficient(r)	:	0.99996

Standard Condition

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

Calibration Condition

Pa (hpa)	:	1016
Ta(K)	:	299

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	13.0	3.605	1.737	52	51.99
2	13 holes	10.4	3.224	1.555	46	45.99
3	10 holes	7.8	2.792	1.349	39	38.99
4	7 holes	5.0	2.236	1.083	30	29.99
5	5 holes	3.0	1.732	0.842	23	22.99

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):32.647 Intercept(b): -4.881 Correlation Coefficient(r): 0.9996

Checked by: Magnum Fan Date: 20/10/2013

High-Volume TSP Sampler
5-Point Calibration Record

Location	:	ASR 6A
Calibrated by	:	P.F.Yeung
Date	:	17/10/2013

Sampler

Model	:	TE-5170
Serial Number	:	S/N 1059

Calibration Orfice and Standard Calibration Relationship

Serial Number	:	2323
Service Date	:	26 Dec 2012
Slope (m)	:	2.09107
Intercept (b)	:	-0.02838
Correlation Coefficient(r)	:	0.99996

Standard Condition

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

Calibration Condition

Pa (hpa)	:	1017
Ta(K)	:	299

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	12.5	3.537	1.705	56	56.02
2	13 holes	10.0	3.163	1.526	50	50.01
3	10 holes	8.0	2.829	1.367	44	44.01
4	7 holes	5.2	2.281	1.104	35	35.01
5	5 holes	2.8	1.674	0.814	26	26.01

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):32.148 Intercept(b): -2.953 Correlation Coefficient(r): 0.9997

Checked by: Magnum Fan Date: 20/10/2013

Performance Check of Turbidity Meter

Equipment Ref. No. : ET/0505/010 Manufacturer : HACH

Model No. : 2100Q Serial No. : 11110 C 014260

Date of Calibration : 08/102013 Due Date : 07/01/2014

Gelex Vial Std	Theoretical Value (NTU)	Measured Value (NTU)	Difference %
0-10 NTU	5	5.23	4.50
10-100 NTU	50	52.1	4.11
100-1000 NTU	550	566	2.87

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.

Checked by : _____ Approved by : _____

東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

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 :	09/11/2013	Calibration Due Date :	08/12/2013

Liquid Junction Error

Primary Standard Solution Used : Phosphate Ref No. of Primary Solution: 003/5.2/001/16

Temperature of Solution : 20.2 $\Delta pH_{½}$ = +0.08

pH value of diluted buffer : 6.80 pH (S) = 6.881

ΔpH = pH(S) - pH of diluted buffer = 0.081 (Observed Deviation)

Liquid Junction Error (ΔpH_j) = $\Delta pH - \Delta pH_{½}$ = 0.001

Shift on Stirring

pH of buffer solution (with stirring), pH_s = 6.89

Shift on stirring, $\Delta pH_s = pH_s - pH(S) - \Delta pH_j$ = 0.008

Noise

Noise, ΔpH_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): 20.2 °C

Temperature record from the ATC (T_{ATC}): 19.8 °C

Temperature Difference, $|T_R - T_{ATC}|$ 0.4 °C

Acceptance Criteria

Performance Characteristic		Acceptable Range
Liquid Junction Error	ΔpHj	≤0.05
Shift on Stirring	ΔpHs	≤0.02
Noise	ΔpHn	≤0.02
Verifcation of ATC	Temperature Difference	≤0.5°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 : _____

東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

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 : 10/12/2013 Calibration Due Date : 09/01/2014

Liquid Junction Error

Primary Standard Solution Used : Phosphate Ref No. of Primary Solution: 003/5.2/001/16

Temperature of Solution : 20.1 $\Delta pH_{½}$ = +0.08

pH value of diluted buffer : 6.79 pH (S) = 6.881

ΔpH = pH(S) - pH of diluted buffer = 0.091 (Observed Deviation)

Liquid Junction Error (ΔpH_j) = ΔpH - $\Delta pH_{½}$ = 0.011

Shift on Stirring

pH of buffer solution (with stirring), pH_s = 6.89

Shift on stirring, ΔpH_s= pH_s - pH(S) - ΔpH_j = -0.002

Noise

Noise, ΔpH_n = difference between max and min reading : 0.01

Verification of ATC

Ref. No. of reference thermometer used: ET/0521/008

Temperature record from the reference thermometer (T_R): 20.2 °C

Temperature record from the ATC (T_{ATC}): 19.9 °C

Temperature Difference, $|T_R - T_{ATC}|$ 0.3 °C

Acceptance Criteria

Performance Characteristic		Acceptable Range
Liquid Junction Error	ΔpHj	≤0.05
Shift on Stirring	ΔpHs	≤0.02
Noise	ΔpHn	≤0.02
Verifcation of ATC	Temperature Difference	≤0.5°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 :

CPE/015/W

Internal Calibration Report of Dissolved Oxygen Meter

Equipment Ref. No.	:	ET/EW/008/005	Manufacturer	:	YSI
Model No.	:	Pro 2030	Serial No.	:	12A 100353
Date of Calibration	:	29/10/2013	Calibration Due Date	:	28/01/2014

Temperature Verification

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

Ref. No. of Water Bath : ---

	Temperature (°C)			
Reference Thermometer reading	Measured	20.3	Corrected	19.9
DO Meter reading	Measured	19.8	Difference	0.1

Standardization of sodium thiosulphate ($Na_2S_2O_3$) solution

Reagent No. of $Na_2S_2O_3$ titrant	CPE/012/4.5/001/7	Reagent No. of 0.025N $K_2Cr_2O_7$	CPE/012/4.4/001/22

	Trial 1	Trial 2
Initial Vol. of $Na_2S_2O_3$ (ml)	1.00	12.00
Final Vol. of $Na_2S_2O_3$ (ml)	11.55	22.50
Vol. of $Na_2S_2O_3$ used (ml)	10.55	10.50
Normality of $Na_2S_2O_3$ solution (N)	0.02370	0.02381
Average Normality (**N**) of $Na_2S_2O_3$ solution (N)	0.02376	
Acceptance criteria, Deviation	Less than ± 0.001N	

Calculation: Normality of $Na_2S_2O_3$, **N** = 0.25 / ml $Na_2S_2O_3$ used

Lineality Checking

Determination of dissolved oxygen content by Winkler Titration *

Purging Time (min)	2		5		10	
Trial	1	2	1	2	1	2
Initial Vol. of $Na_2S_2O_3$ (ml)	0.00	11.80	23.40	0.00	8.00	13.00
Final Vol. of $Na_2S_2O_3$ (ml)	11.80	23.40	31.50	8.00	13.00	18.10
Vol. (**V**) of $Na_2S_2O_3$ used (ml)	11.80	11.60	8.10	8.00	5.00	5.10
Dissolved Oxygen (**DO**), mg/L	7.53	7.40	5.17	5.10	3.19	3.25
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation: DO (mg/L) = **V** x **N** x 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	7.66	7.41	7.54	7.53	7.40	7.47	0.93
5	5.31	5.23	5.27	5.17	5.10	5.14	2.50
10	3.20	3.10	3.15	3.19	3.25	3.22	2.20
Linear regression coefficient				0.9987			

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/012/4.7/002/11	Reagent No. of NaCl (30ppt)	CPE/012/4.8/002/11

Determination of dissolved oxygen content by Winkler Titration **

Salinity (ppt)	10		30	
Trial	1	2	1	2
Initial Vol. of $Na_2S_2O_3$ (ml)	0.00	12.40	24.50	35.80
Final Vol. of $Na_2S_2O_3$ (ml)	12.40	24.50	35.80	47.00
Vol. (**V**) of $Na_2S_2O_3$ used (ml)	12.40	12.10	11.30	11.20
Dissolved Oxygen (**DO**), mg/L	7.91	7.72	7.21	7.14
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation: DO (mg/L) = **V** x **N** x 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	7.82	7.63	7.73	7.91	7.72	7.82	1.16
30	7.22	7.16	7.19	7.21	7.14	7.18	0.14

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 : _____

東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

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 : ~~29/08/2013~~ 29/10/2013 & 29/01/2013 Due Date : 28/01/2014

Ref. No. of Salinity Standard used (30ppt)	S/001/4

Salinity Standard (ppt)	Measured Salinity (ppt)	Difference %
30.0	30.8	2.63

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 : _____

MetPak II™

Product Test Report

Product Tested: MetPak
Part Number: 1723-1B-2-111
Serial Number: 13130002
Test Date: 26/03/2013
Location: Gill Instruments Ltd

GILL ensures that quality is inherent in all aspects of their activities and ensures that compliance with BS EN ISO9001: 2008 is maintained.

This report certifies that the above instrument has been tested in accordance with Gill internal procedures

Results

Test	Limits	Results
Wind Still Air Test (Zero Wind Speed)	Pass/Fail	Pass
Wind Tunnel Test (12m/s nominal)	Pass/Fail	Pass
Pressure Sensor (Comparison DPI 142)	Pass/Fail	Pass
Temperature Sensor (Comparison HC2-S (SCS certified))	Pass/Fail	Pass
Humidity Sensor (Comparison HC2-S (SCS certified))	Pass/Fail	Pass

Wind sensor generic calibration is traceable to the University of Southampton wind tunnel and Gill instrumentation is maintained in accordance with UKAS.

Comparisons for Temperature, Humidity and Pressure are done against reference UKAS traceable instruments. The reference system numbers of these instruments are listed above.

All tests have been successfully completed

On behalf of Gill Instruments Ltd

Tony Raine
Quality Control

2002-0396 Issue 1

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F: +44 (0) 1590 613 555
E: anem@gill.co.uk

www.gill.co.uk

Certification of Quality

This product has been tested in accordance with procedures established through Global Water Instrumentation's Quality Management System. This product meets or exceeds its manufacturing acceptance criteria.

ITEM DESCRIPTION:	Wind Direction
MODEL NAME/ NUMBER:	WE570
PART NUMBER:	ED0000
SENSOR RANGE:	0-360 °
SENSOR OUTPUT:	4.01-20.03 mA
ACCURACY:	1% of full scale
POWER REQUIRED	10-36 VDC
SERIAL NUMBER:	1337005143
CABLE LENGTH:	25 ft
CERTIFICATES:	CE Compliant

Technician: *Wright, Jess* **Date:** 9/12/2013

NOT Global Water Instrumentation warrants that its products are free from defects in material & workmanship under normal use & service for a period of one year from date of original shipment from factory. Repaired components are warranted for a period of 90 days from shipment. Contact us for complete warranty details.

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Fax 1-979-690-0440
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Visit our online catalog at www.globalw.com
Our Service Address
151 Graham Rd
College Station, TX 77845

Certification of Quality

This product has been tested in accordance with procedures established through Global Water Instrumentation's Quality Management System. This product meets or exceeds its manufacturing acceptance criteria.

ITEM DESCRIPTION:	Wind Speed Sensor
MODEL NAME/ NUMBER:	WE550
PART NUMBER:	EC0000
SENSOR RANGE:	0-110 MPH
SENSOR OUTPUT:	4.00-19.91 mA
ACCURACY:	.2 MPH over the range 11 to 55 MPH
POWER REQUIRED	10-36 VDC
SERIAL NUMBER:	1337005099
CABLE LENGTH:	25 ft
CERTIFICATES:	CE Compliant

Technician: *Wright, Jess* **Date:** 9/10/2013

NOT Global Water Instrumentation warrants that its products are free from defects in material & workmanship under normal use & service for a period of one year from date of original shipment from factory. Repaired components are warranted for a period of 90 days from shipment. Contact us for complete warranty details.

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Appendix F

EM&A Monitoring Schedules

HY/2012/08 - Tuen Mun - Chek Lap Kok Link - Northern Connection Sub-sea Tunnel Section
Impact Marine Water Quality Monitoring (WQM) Schedule (December 2013)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01-Dec	02-Dec	03-Dec	04-Dec	05-Dec	06-Dec	07-Dec
	WQM Mid-Ebb 12:20 (10:35 - 14:05) Mid-Flood 17:44 (15:59 - 19:30)		**WQM** Mid-Ebb 13:55 (12:10 - 15:40) Mid-Flood 19:07 (17:22 - 20:52)		**WQM** Mid-Flood 10:09 (08:24 - 11:54) Mid-Ebb 15:32 (13:47 - 17:17)	
08-Dec	09-Dec	10-Dec	11-Dec	12-Dec	13-Dec	14-Dec
	WQM Mid-Flood 12:48 (11:03 - 14:33) Mid-Ebb 18:48 (17:03 - 20:33)		**WQM** Mid-Flood 14:35 (12:50 - 16:20) Mid-Ebb 21:17 (19:32 - 23:02)		**WQM** Mid-Ebb 9:55 (08:10 - 11:40) Mid-Flood 15:59 (14:14 - 17:44)	
15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec
	WQM Mid-Ebb 12:21 (10:36 - 14:06) Mid-Flood 17:38 (15:53 - 19:23)		**WQM** Mid-Ebb 13:30 (11:45 - 15:15) Mid-Flood 18:42 (16:57 - 20:27)		**WQM** Mid-Flood 9:27 (07:42 - 11:12) Mid-Ebb 14:36 (12:51 - 16:21)	
22-Dec	23-Dec	24-Dec	25-Dec	26-Dec	27-Dec	28-Dec
	WQM Mid-Flood 11:06 (09:21 - 12:51) Mid-Ebb 16:32 (14:47 - 18:17)		**WQM** Mid-Flood 12:31 (10:46 - 14:16) Mid-Ebb 18:39 (16:54 - 20:24)		**WQM** Mid-Flood 14:05 (12:20 - 15:50) Mid-Ebb 21:04 (19:19 - 22:49)	
29-Dec	30-Dec	31-Dec				
	WQM Mid-Ebb 11:13 (09:28 - 12:58) Mid-Flood 16:30 (14:45 - 18:15)					

HY/2012/08 - Tuen Mun - Chek Lap Kok Link - Northern Connection Sub-sea Tunnel Section
Impact Marine Water Quality Monitoring (WQM) Schedule (Jan 14)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Jan	2-Jan	3-Jan	4-Jan
			WQM Mid-Ebb 12:56 (11:11 - 14:41) Mid-Flood 18:07 (16:22 - 19:52)		**WQM** Mid-Flood 9:04 (07:34 - 10:49) Mid-Ebb 14:29 (12:44 - 16:14)	
5-Jan	6-Jan	7-Jan	8-Jan	9-Jan	10-Jan	11-Jan
	WQM Mid-Flood 11:13 (09:28 - 12:58) Mid-Ebb 17:00 (15:15 - 18:45)		**WQM** Mid-Flood 12:42 (10:57 - 14:27) Mid-Ebb 19:20 (17:35 - 21:05)		**WQM** Mid-Ebb 7:54 (06:09 - 09:39) Mid-Flood 14:13 (12:28 - 15:58)	
12-Jan	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan	18-Jan
	WQM Mid-Ebb 11:25 (09:40 - 13:10) Mid-Flood 16:35 (14:50 - 18:20)		**WQM** Mid-Ebb 12:38 (10:53 - 14:23) Mid-Flood 17:53 (16:08 - 19:38)		**WQM** Mid-Ebb 13:41 (11:56 - 15:26) Mid-Flood 19:06 (17:21 - 20:51)	
19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan	25-Jan
	WQM Mid-Flood 9:42 (07:57 - 11:27) Mid-Ebb 15:17 (13:32 - 17:02)		**WQM** Mid-Flood 10:43 (08:58 - 12:28) Mid-Ebb 16:41 (14:56 - 18:26)		**WQM** Mid-Flood 12:04 (10:19 - 13:49) Mid-Ebb 18:53 (17:08 - 20:38)	
26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan	1-Feb
	WQM Mid-Ebb 9:54 (08:09 - 11:39) Mid-Flood 15:04 (13:19 - 16:49)		**WQM** Mid-Ebb 11:56 (10:11 - 13:41) Mid-Flood 17:07 (15:22 - 18:52)		**WQM** Mid-Ebb 13:28 (11:43 - 15:13) Mid-Flood 18:53 (17:08 - 20:38)	

HY/2012/08 - Tuen Mun - Chek Lap Kok Link
Northern Connection Sub-sea Tunnel Section
Air Quality Impact Monitoring Schedule - December 2013

Air quality monitoring stations: ASR1, ASR5, ASR10, AQMS1, AQMS2

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Dec	2-Dec	3-Dec	4-Dec	5-Dec	6-Dec	7-Dec
				1-hour TSP - 3 times 24-hour TSP - 1 time *Impact AQM*		
8-Dec	9-Dec	10-Dec	11-Dec	12-Dec	13-Dec	14-Dec
			1-hour TSP - 3 times 24-hour TSP - 1 time *Impact AQM*			
15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec
		1-hour TSP - 3 times 24-hour TSP - 1 time *Impact AQM*				
22-Dec	23-Dec	24-Dec	Public Holiday 25-Dec	Public Holiday 26-Dec	27-Dec	28-Dec
	1-hour TSP - 3 times 24-hour TSP - 1 time *Impact AQM*					1-hour TSP - 3 times 24-hour TSP - 1 time *Impact AQM*
29-Dec	30-Dec	31-Dec				

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/2012/08 - Tuen Mun - Chek Lap Kok Link
Northern Connection Sub-sea Tunnel Section
Tentative Air Quality Impact Monitoring Schedule - Janurary 2014

Air quality monitoring stations: ASR1, ASR5, ASR10, AQMS1, AQMS2

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			public holiday 1-Jan	2-Jan	3-Jan	4-Jan
					1-hour TSP - 3 times 24-hour TSP - 1 time *Impact AQM*	
5-Jan	6-Jan	7-Jan	8-Jan	9-Jan	10-Jan	11-Jan
				1-hour TSP - 3 times 24-hour TSP - 1 time *Impact AQM*		
12-Jan	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan	18-Jan
			1-hour TSP - 3 times 24-hour TSP - 1 time *Impact AQM*			
19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan	25-Jan
		1-hour TSP - 3 times 24-hour TSP - 1 time *Impact AQM*				
26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	public holiday 31-Jan	public holiday 1-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/2012/08 - Tuen Mun - Chek Lap Kok Link
Northern Connection Sub-sea Tunnel Section
Impact Dolphin Monitoring Survey Monitoring Schedule - December 2013

Air quality monitoring stations: ASR1, ASR5, ASR10, AQMS1, AQMS2

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Dec	2-Dec	3-Dec	4-Dec	5-Dec	6-Dec	7-Dec
				Impact Dolphin Monitoring		
8-Dec	9-Dec	10-Dec	11-Dec	12-Dec	13-Dec	14-Dec
	Impact Dolphin Monitoring		**Impact Dolphin Monitoring**			
15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec
				Impact Dolphin Monitoring		
22-Dec	23-Dec	24-Dec	Public Holiday 25-Dec	Public Holiday 26-Dec	27-Dec	28-Dec
29-Dec	30-Dec	31-Dec				

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/2012/08 - Tuen Mun - Chek Lap Kok Link
Northern Connection Sub-sea Tunnel Section
Tentative Impact Dolphin Monitoring Survey Monitoring Schedule - January 2014

Air quality monitoring stations: ASR1, ASR5, ASR10, AQMS1, AQMS2

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			public holiday 1-Jan	2-Jan	3-Jan	4-Jan
5-Jan	6-Jan	7-Jan	8-Jan	9-Jan	10-Jan	11-Jan
		Impact Dolphin Monitoring		**Impact Dolphin Monitoring**		
12-Jan	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan	18-Jan
19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan	25-Jan
	Impact Dolphin Monitoring			**Impact Dolphin Monitoring**		
26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	public holiday 31-Jan	public holiday 1-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.

Appendix G

Impact Air Quality Monitoring Results

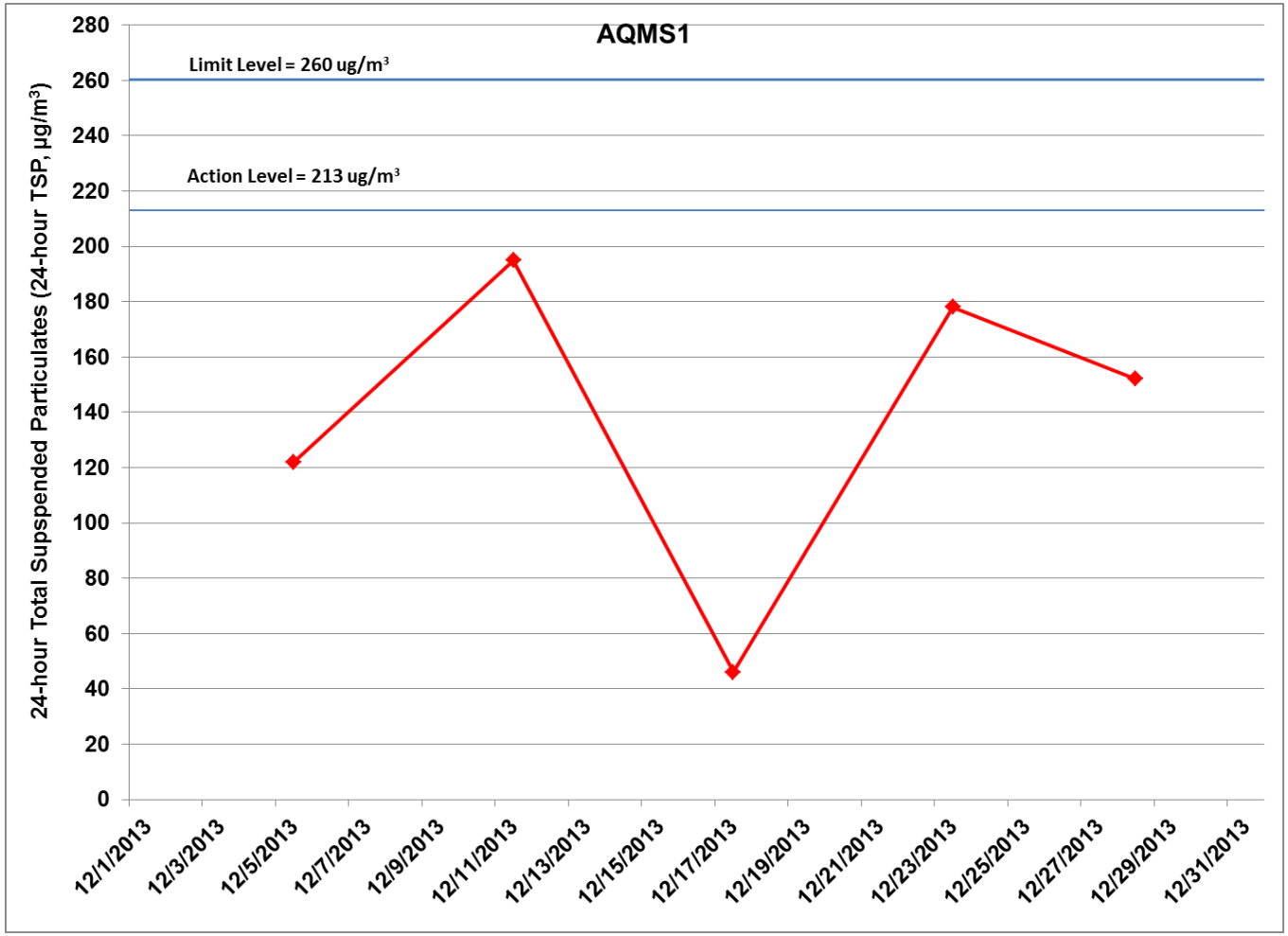


Figure G.1 Impact Monitoring – Mean Level of 24-hour Total Suspended Particulates (mg/L) at AQMS1 between 1 and 31 December 2013 during impact monitoring period.

Ref: ***0212330_impact AQM_Graphs_rev a.xlsx***

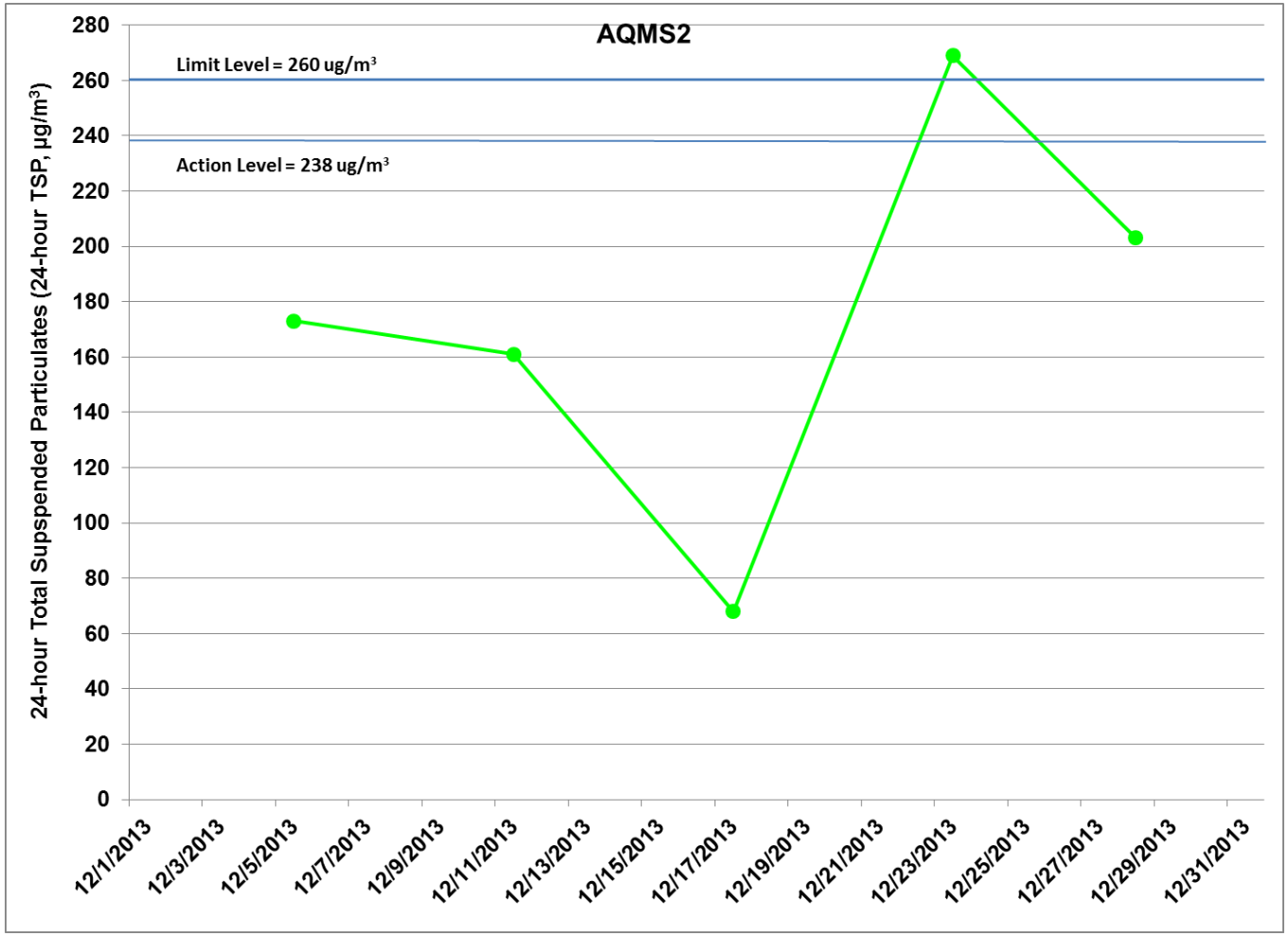


Figure G.2 Impact Monitoring – Mean Level of 24-hour Total Suspended Particulates (mg/L) at AQMS2 between 1 and 31 December 2013 during impact monitoring period.

Ref: ***0212330_impact AQM_Graphs_rev a.xlsx***

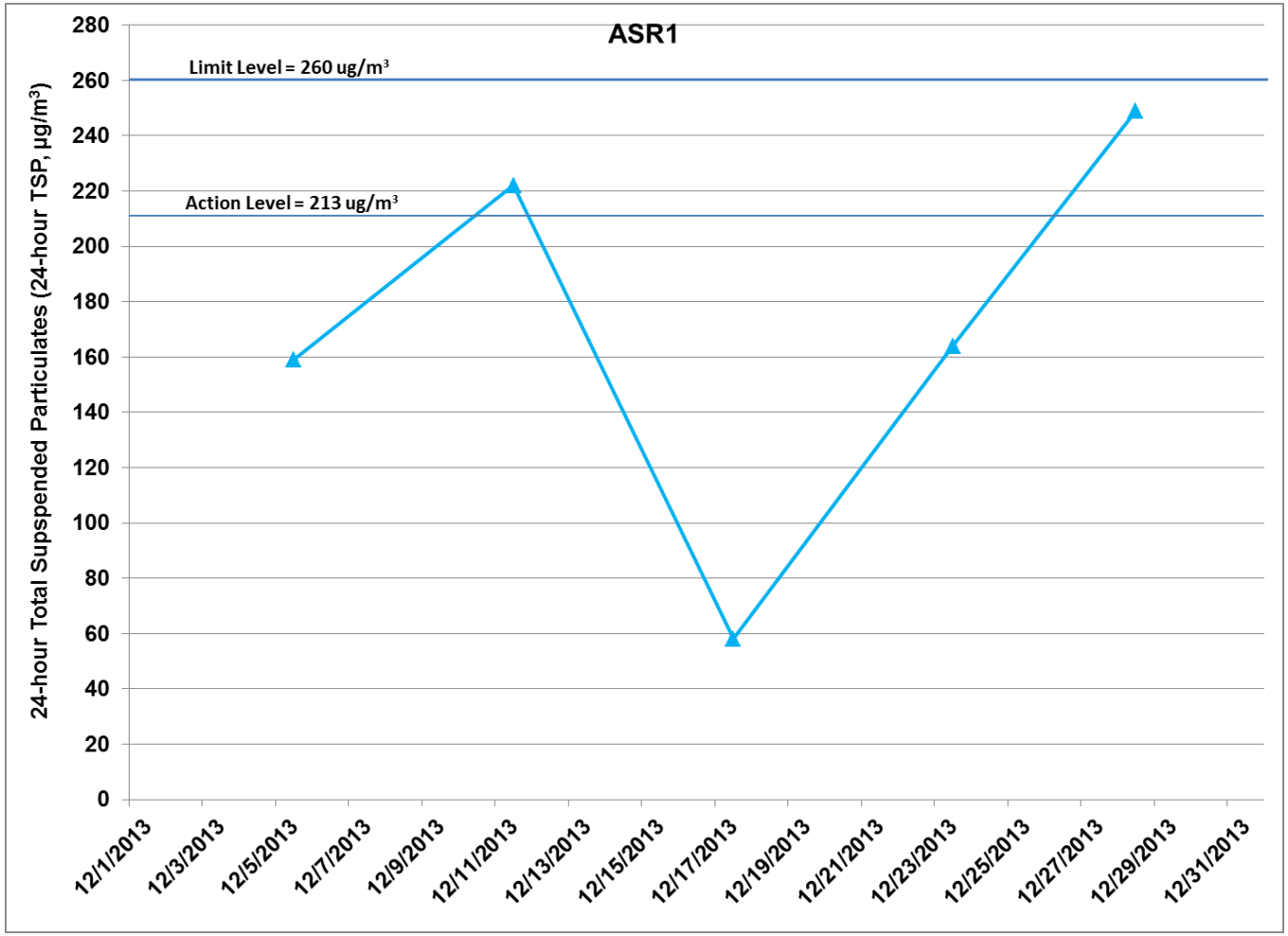


Figure G.3 Impact Monitoring – Mean Level of 24-hour Total Suspended Particulates (mg/L) at ASR1 between 1 and 31 December 2013 during impact monitoring period.

Ref: ***0212330_impact AQM_Graphs_rev a.xlsx***

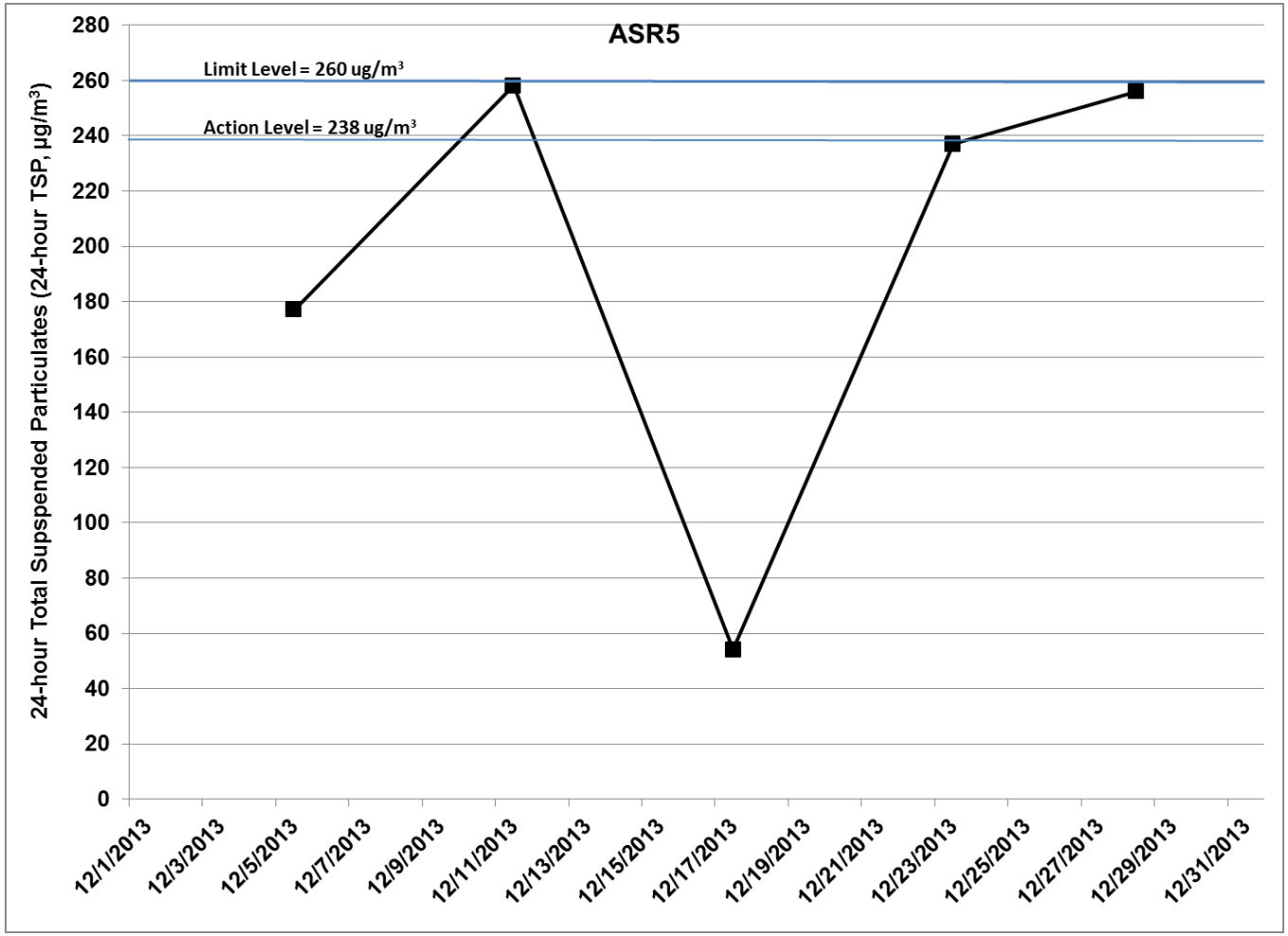


Figure G.4 Impact Monitoring – Mean Level of 24-hour Total Suspended Particulates (mg/L) at ASR5 between 1 and 31 December 2013 during impact monitoring period.

Ref: ***0212330_impact AQM_Graphs_rev a.xlsx***

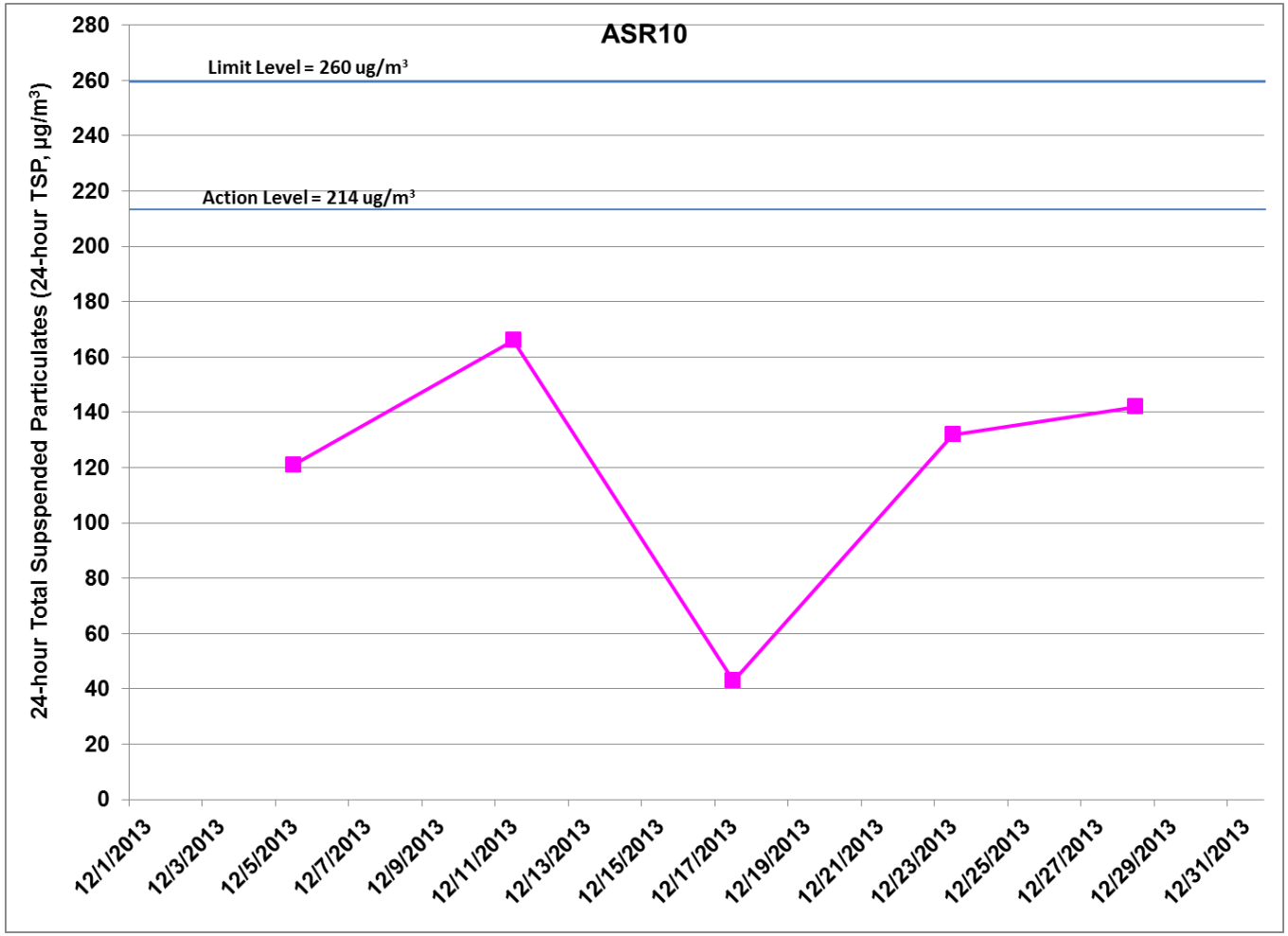


Figure G.5 Impact Monitoring – Mean Level of 24-hour Total Suspended Particulates (mg/L) at ASR10 between 1 and 31 December 2013 during impact monitoring period.

Ref: ***0212330_impact AQM_Graphs_rev a.xlsx***

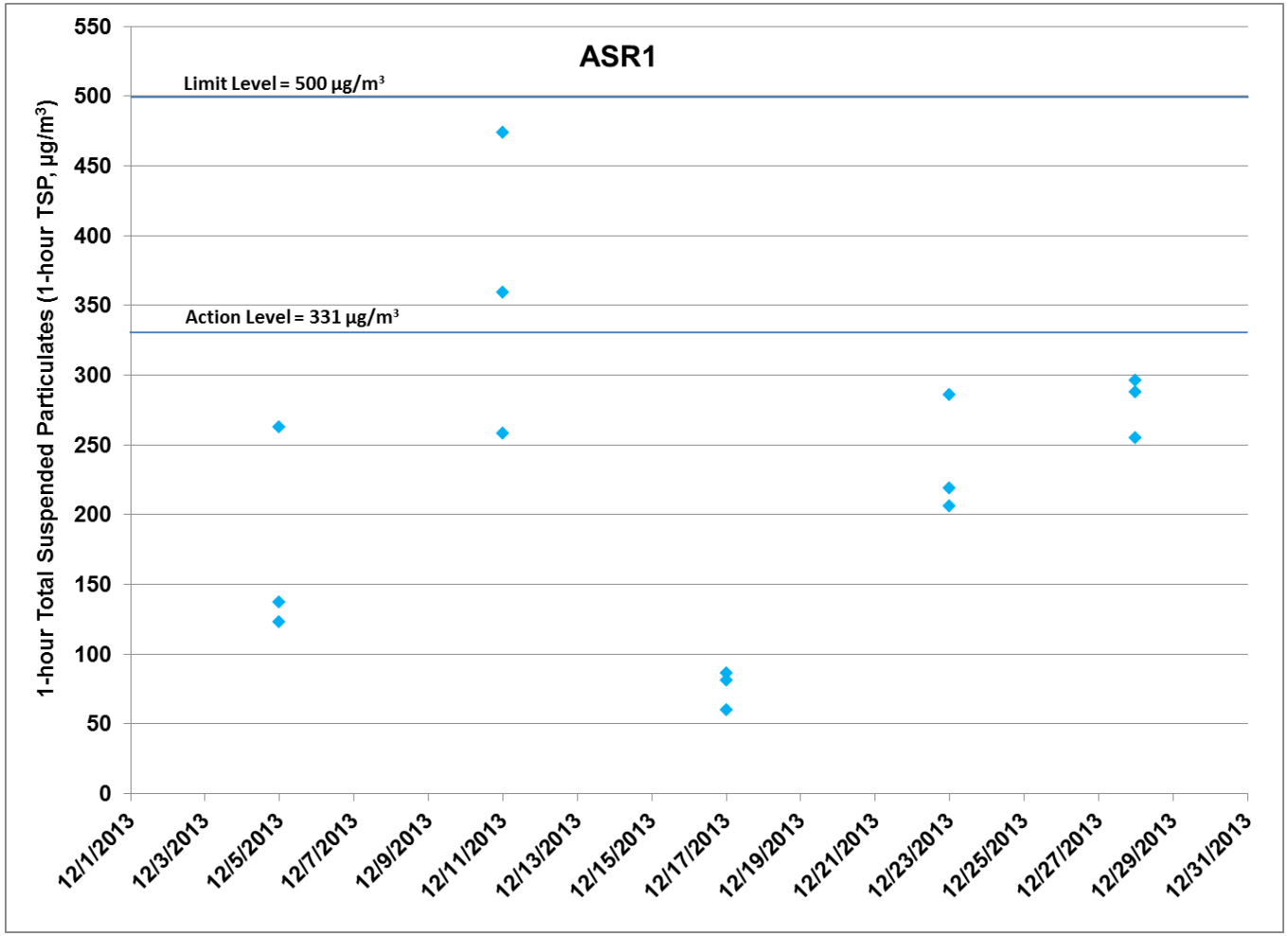


Figure G.6 Impact Monitoring – 1-hour Total Suspended Particulates (mg/L) at ASR1 between 1 and 31 December 2013 during impact monitoring period.

Ref: ***0212330_impact AQM_Graphs_rev a.xlsx***

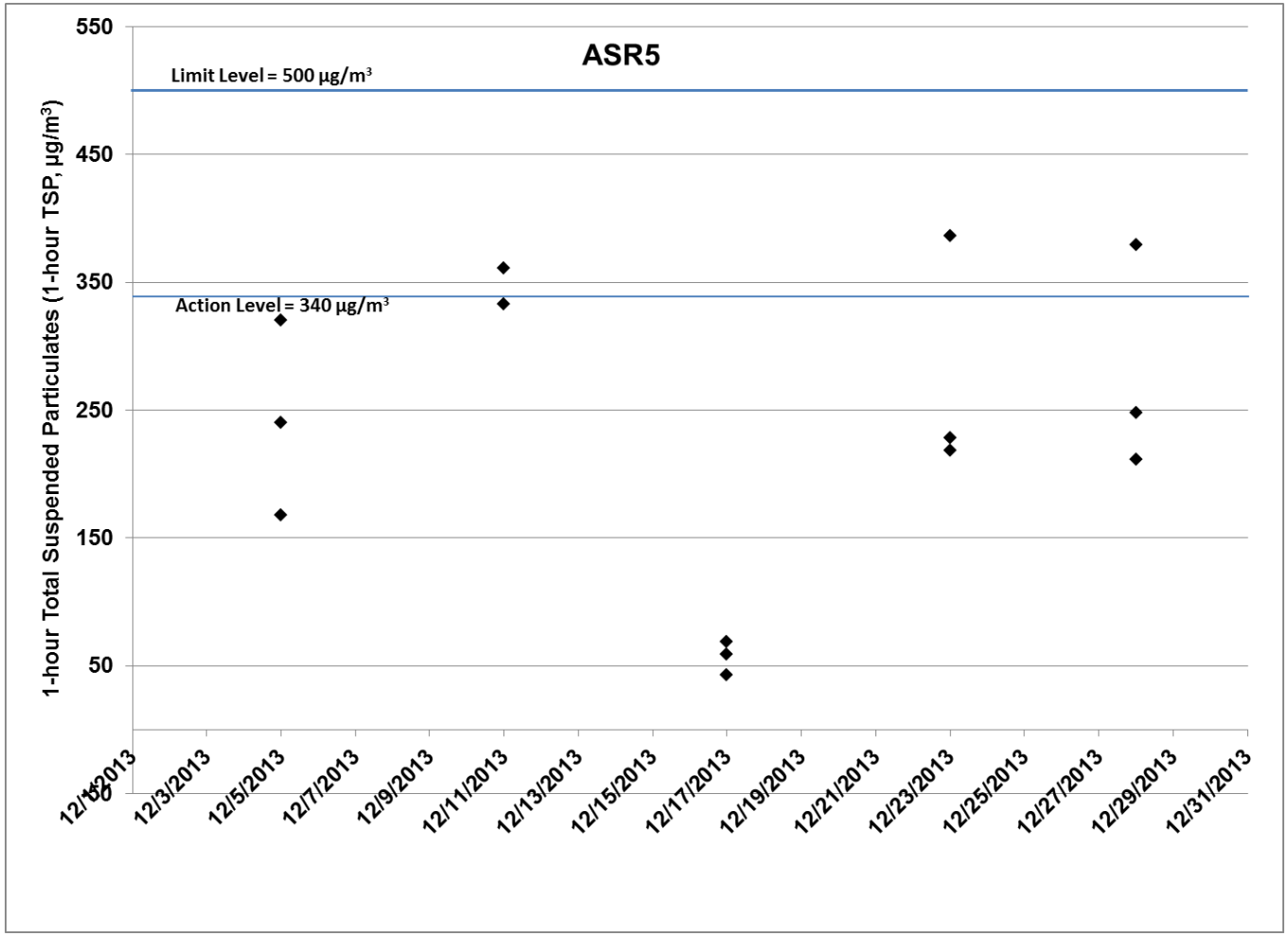


Figure G.7 Impact Monitoring – 1-hour Total Suspended Particulates (mg/L) at ASR5 between 1 and 31 December 2013 during impact monitoring period.

Ref: ***0212330_impact AQM_Graphs_rev a.xlsx***

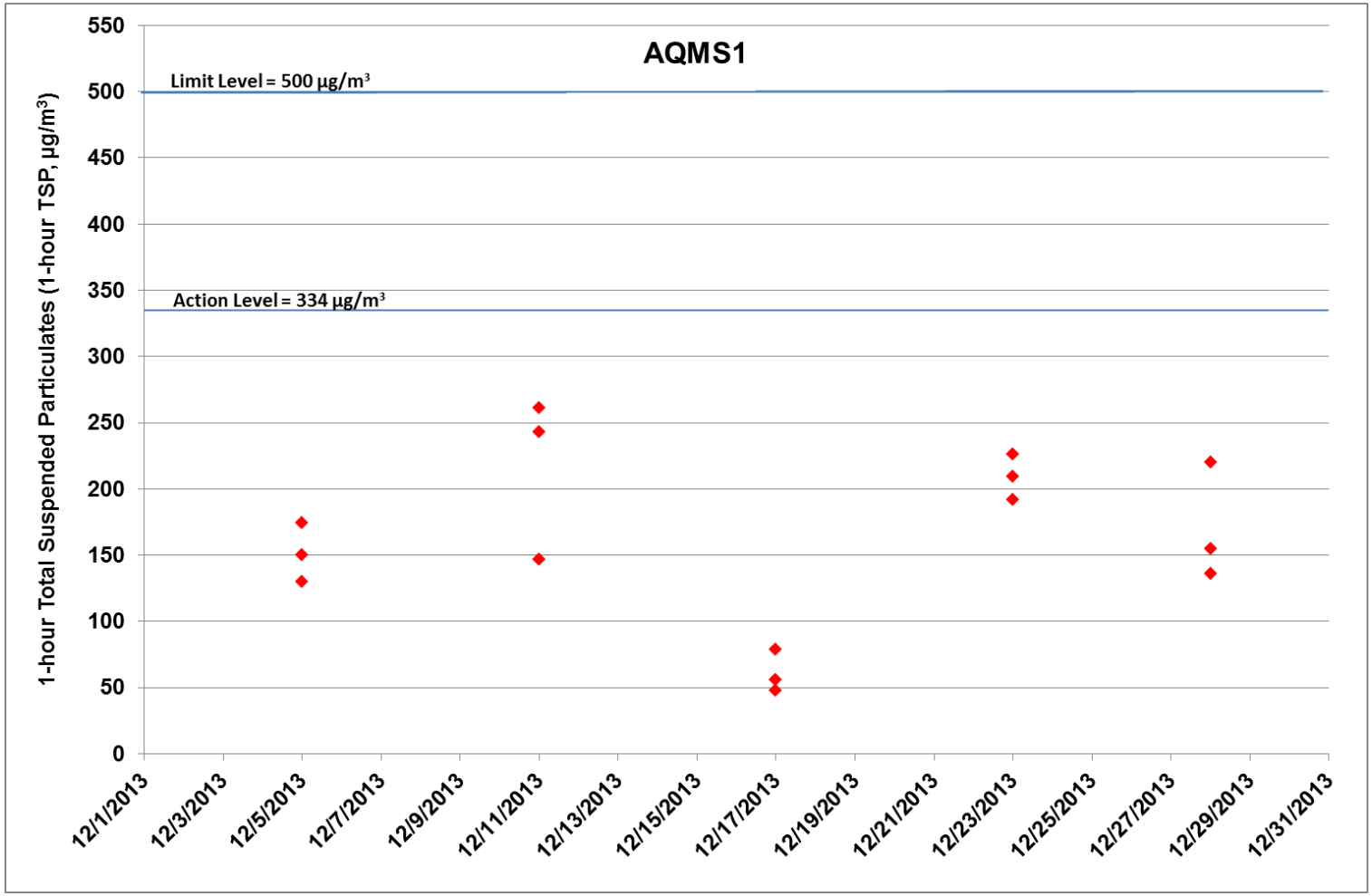


Figure G.8 Impact Monitoring – 1-hour Total Suspended Particulates (mg/L) at AQMS1 between 1 and 31 December 2013 during impact monitoring period.

Ref: ***0212330_impact AQM_Graphs_rev a.xlsx***

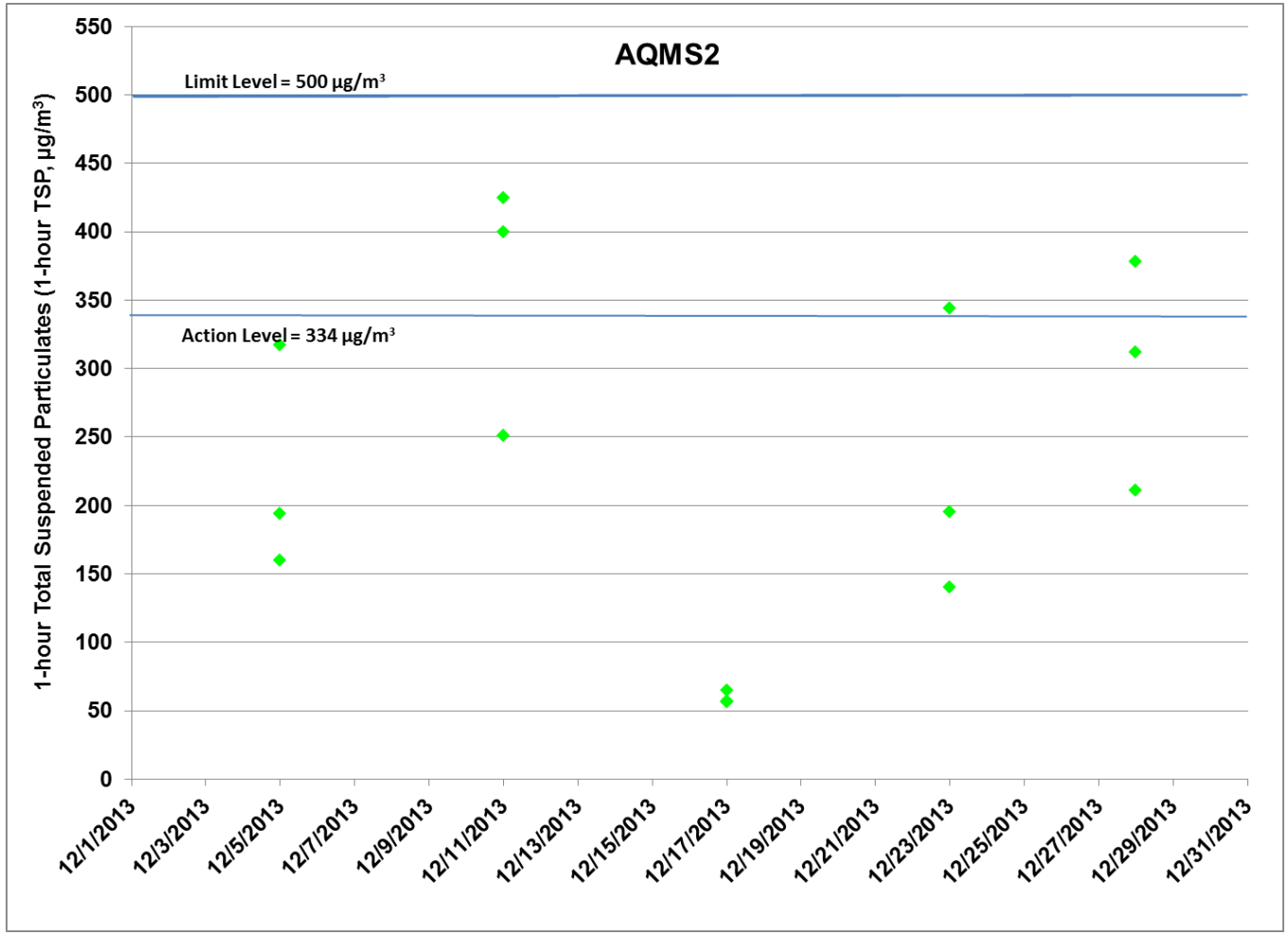


Figure G.9 Impact Monitoring – 1-hour Total Suspended Particulates (mg/L) at AQMS2 between 1 and 31 December 2013 during impact monitoring period.

Ref: ***0212330_impact AQM_Graphs_rev a.xlsx***

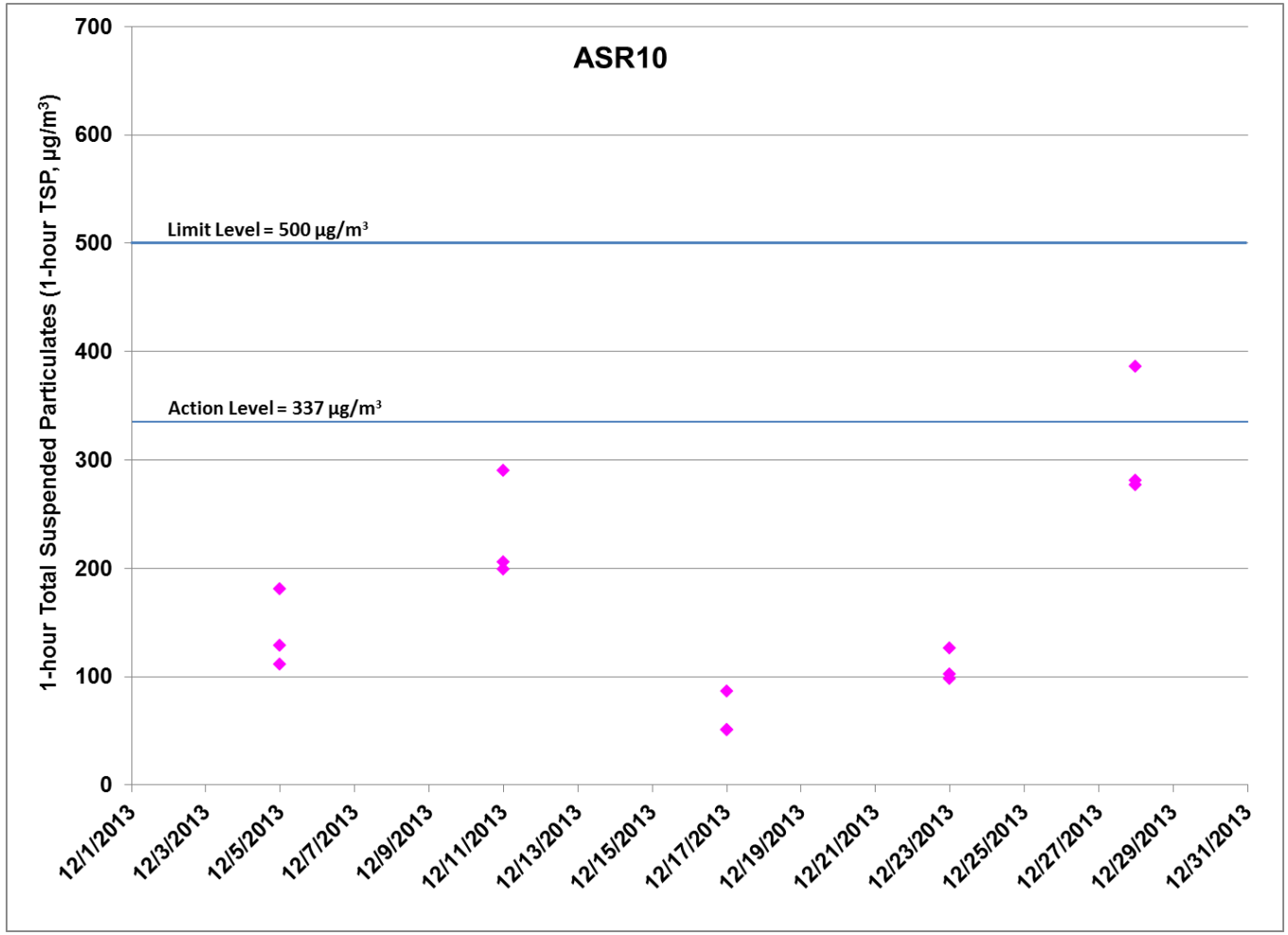


Figure G.10 Impact Monitoring – 1-hour Total Suspended Particulates (mg/L) at ASR10 between 1 and 31 December 2013 during impact monitoring period.

Ref: ***0212330_impact AQM_Graphs_rev a.xlsx***

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2013/12/05	ASR10	S	08:05	1-hour TSP	181	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/05	ASR10	S	09:07	1-hour TSP	111	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/05	ASR10	S	10:09	1-hour TSP	129	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/05	AQMS2	S	08:15	1-hour TSP	317	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/05	AQMS2	S	09:17	1-hour TSP	160	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/05	AQMS2	S	10:19	1-hour TSP	194	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/05	ASR5	S	08:26	1-hour TSP	320	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/05	ASR5	S	09:28	1-hour TSP	168	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/05	ASR5	S	10:30	1-hour TSP	240	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/05	ASR1	S	08:37	1-hour TSP	263	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/05	ASR1	S	09:39	1-hour TSP	137	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/05	ASR1	S	10:41	1-hour TSP	123	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/05	AQMS1	S	08:49	1-hour TSP	150	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/05	AQMS1	S	09:51	1-hour TSP	130	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/05	AQMS1	S	10:53	1-hour TSP	174	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/11	AQMS1	S	10:48	1-hour TSP	261	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/11	AQMS1	S	09:46	1-hour TSP	243	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/11	AQMS1	S	08:44	1-hour TSP	147	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/11	ASR1	S	08:32	1-hour TSP	359	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/11	ASR1	S	09:34	1-hour TSP	474	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/11	ASR1	S	10:36	1-hour TSP	258	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/11	ASR5	S	08:23	1-hour TSP	361	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/11	ASR5	S	09:25	1-hour TSP	559	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/11	ASR5	S	10:27	1-hour TSP	333	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/11	AQMS2	S	08:11	1-hour TSP	425	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/11	AQMS2	S	09:13	1-hour TSP	400	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/11	AQMS2	S	10:15	1-hour TSP	251	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/11	ASR10	S	08:00	1-hour TSP	199	$\mu g/m^3$

TMCLKL	HY/2012/08	2013/12/11	ASR10	S	09:02	1-hour TSP	206	μg/m^3
TMCLKL	HY/2012/08	2013/12/11	ASR10	S	10:04	1-hour TSP	290	μg/m^3
TMCLKL	HY/2012/08	2013/12/17	ASR10	S	09:04	1-hour TSP	51	μg/m^3
TMCLKL	HY/2012/08	2013/12/17	ASR10	S	10:06	1-hour TSP	51	μg/m^3
TMCLKL	HY/2012/08	2013/12/17	ASR10	S	08:02	1-hour TSP	86	μg/m^3
TMCLKL	HY/2012/08	2013/12/17	AQMS2	S	08:12	1-hour TSP	65	μg/m^3
TMCLKL	HY/2012/08	2013/12/17	AQMS2	S	09:14	1-hour TSP	56	μg/m^3
TMCLKL	HY/2012/08	2013/12/17	AQMS2	S	10:16	1-hour TSP	57	μg/m^3
TMCLKL	HY/2012/08	2013/12/17	ASR5	S	08:22	1-hour TSP	69	μg/m^3
TMCLKL	HY/2012/08	2013/12/17	ASR5	S	09:24	1-hour TSP	43	μg/m^3
TMCLKL	HY/2012/08	2013/12/17	ASR5	S	10:26	1-hour TSP	59	μg/m^3
TMCLKL	HY/2012/08	2013/12/17	ASR1	S	08:33	1-hour TSP	86	μg/m^3
TMCLKL	HY/2012/08	2013/12/17	ASR1	S	09:35	1-hour TSP	60	μg/m^3
TMCLKL	HY/2012/08	2013/12/17	ASR1	S	10:37	1-hour TSP	81	μg/m^3
TMCLKL	HY/2012/08	2013/12/17	AQMS1	S	08:44	1-hour TSP	56	μg/m^3
TMCLKL	HY/2012/08	2013/12/17	AQMS1	S	09:46	1-hour TSP	79	μg/m^3
TMCLKL	HY/2012/08	2013/12/17	AQMS1	S	10:48	1-hour TSP	48	μg/m^3
TMCLKL	HY/2012/08	2013/12/23	ASR10	S	08:00	1-hour TSP	98	μg/m^3
TMCLKL	HY/2012/08	2013/12/23	ASR10	S	09:02	1-hour TSP	102	μg/m^3
TMCLKL	HY/2012/08	2013/12/23	ASR10	S	10:04	1-hour TSP	126	μg/m^3
TMCLKL	HY/2012/08	2013/12/23	AQMS1	S	08:43	1-hour TSP	192	μg/m^3
TMCLKL	HY/2012/08	2013/12/23	AQMS1	S	09:45	1-hour TSP	209	μg/m^3
TMCLKL	HY/2012/08	2013/12/23	AQMS1	S	10:47	1-hour TSP	226	μg/m^3
TMCLKL	HY/2012/08	2013/12/23	ASR1	S	08:32	1-hour TSP	206	μg/m^3
TMCLKL	HY/2012/08	2013/12/23	ASR1	S	09:34	1-hour TSP	219	μg/m^3
TMCLKL	HY/2012/08	2013/12/23	ASR1	S	10:36	1-hour TSP	286	μg/m^3
TMCLKL	HY/2012/08	2013/12/23	ASR5	S	08:22	1-hour TSP	386	μg/m^3
TMCLKL	HY/2012/08	2013/12/23	ASR5	S	09:24	1-hour TSP	218	μg/m^3
TMCLKL	HY/2012/08	2013/12/23	ASR5	S	10:26	1-hour TSP	228	μg/m^3

TMCLKL	HY/2012/08	2013/12/23	AQMS2	S	08:10	1-hour TSP	140	μg/m^3
TMCLKL	HY/2012/08	2013/12/23	AQMS2	S	09:12	1-hour TSP	344	μg/m^3
TMCLKL	HY/2012/08	2013/12/23	AQMS2	S	10:14	1-hour TSP	195	μg/m^3
TMCLKL	HY/2012/08	2013/12/28	AQMS1	S	08:36	1-hour TSP	136	μg/m^3
TMCLKL	HY/2012/08	2013/12/28	AQMS1	S	09:38	1-hour TSP	155	μg/m^3
TMCLKL	HY/2012/08	2013/12/28	AQMS1	S	10:40	1-hour TSP	220	μg/m^3
TMCLKL	HY/2012/08	2013/12/28	ASR1	S	08:34	1-hour TSP	296	μg/m^3
TMCLKL	HY/2012/08	2013/12/28	ASR1	S	09:36	1-hour TSP	255	μg/m^3
TMCLKL	HY/2012/08	2013/12/28	ASR1	S	10:38	1-hour TSP	288	μg/m^3
TMCLKL	HY/2012/08	2013/12/28	ASR5	S	08:22	1-hour TSP	379	μg/m^3
TMCLKL	HY/2012/08	2013/12/28	ASR5	S	09:24	1-hour TSP	248	μg/m^3
TMCLKL	HY/2012/08	2013/12/28	ASR5	S	10:26	1-hour TSP	211	μg/m^3
TMCLKL	HY/2012/08	2013/12/28	AQMS2	S	08:11	1-hour TSP	378	μg/m^3
TMCLKL	HY/2012/08	2013/12/28	AQMS2	S	09:13	1-hour TSP	312	μg/m^3
TMCLKL	HY/2012/08	2013/12/28	AQMS2	S	10:15	1-hour TSP	211	μg/m^3
TMCLKL	HY/2012/08	2013/12/28	ASR10	S	08:00	1-hour TSP	281	μg/m^3
TMCLKL	HY/2012/08	2013/12/28	ASR10	S	09:02	1-hour TSP	277	μg/m^3
TMCLKL	HY/2012/08	2013/12/28	ASR10	S	10:04	1-hour TSP	386	μg/m^3
TMCLKL	HY/2012/08	2013/12/05	ASR10	S	11:11	24-hour TSP	121	μg/m^3
TMCLKL	HY/2012/08	2013/12/05	AQMS2	S	11:21	24-hour TSP	173	μg/m^3
TMCLKL	HY/2012/08	2013/12/05	ASR5	S	11:32	24-hour TSP	177	μg/m^3
TMCLKL	HY/2012/08	2013/12/05	ASR1	S	11:43	24-hour TSP	159	μg/m^3
TMCLKL	HY/2012/08	2013/12/05	AQMS1	S	11:55	24-hour TSP	122	μg/m^3
TMCLKL	HY/2012/08	2013/12/11	AQMS1	S	11:50	24-hour TSP	195	μg/m^3
TMCLKL	HY/2012/08	2013/12/11	ASR1	S	11:38	24-hour TSP	222	μg/m^3
TMCLKL	HY/2012/08	2013/12/11	ASR5	S	11:29	24-hour TSP	258	μg/m^3
TMCLKL	HY/2012/08	2013/12/11	AQMS2	S	11:17	24-hour TSP	161	μg/m^3
TMCLKL	HY/2012/08	2013/12/11	ASR10	S	11:06	24-hour TSP	166	μg/m^3
TMCLKL	HY/2012/08	2013/12/17	ASR10	S	11:08	24-hour TSP	43	μg/m^3

TMCLKL	HY/2012/08	2013/12/17	AQMS2	S	11:18	24-hour TSP	68	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/17	ASR5	S	11:28	24-hour TSP	54	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/17	ASR1	S	11:39	24-hour TSP	58	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/17	AQMS1	S	11:50	24-hour TSP	46	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/23	ASR10	S	11:06	24-hour TSP	132	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/23	AQMS1	S	11:49	24-hour TSP	178	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/23	ASR1	S	11:38	24-hour TSP	164	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/23	ASR5	S	11:28	24-hour TSP	237	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/23	AQMS2	S	11:16	24-hour TSP	269	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/28	AQMS1	S	11:42	24-hour TSP	152	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/28	ASR1	S	11:40	24-hour TSP	249	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/28	ASR5	S	11:28	24-hour TSP	256	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/28	AQMS2	S	11:17	24-hour TSP	203	$\mu g/m^3$
TMCLKL	HY/2012/08	2013/12/28	ASR10	S	11:06	24-hour TSP	142	$\mu g/m^3$

Meteorological Data for Impact Monitoring in the reporting period			
Date	Time (24hrs)	Average of Wind Direction (degree)	Average of Wind Speed (m/s)
5-Dec-13	0:00	113	2.88
5-Dec-13	1:00	102	3.13
5-Dec-13	2:00	130	3.10
5-Dec-13	3:00	125	3.34
5-Dec-13	4:00	110	2.82
5-Dec-13	5:00	99	2.78
5-Dec-13	6:00	88	3.10
5-Dec-13	7:00	81	3.00
5-Dec-13	8:00	99	2.07
5-Dec-13	9:00	108	1.50
5-Dec-13	10:00	100	1.58
5-Dec-13	11:00	147	1.11
5-Dec-13	12:00	192	0.87
5-Dec-13	13:00	212	1.00
5-Dec-13	14:00	248	1.11
5-Dec-13	15:00	236	1.05
5-Dec-13	16:00	228	0.76
5-Dec-13	17:00	273	0.79
5-Dec-13	18:00	291	1.19
5-Dec-13	19:00	250	0.96
5-Dec-13	20:00	213	0.66
5-Dec-13	21:00	240	0.89
5-Dec-13	22:00	266	0.79
5-Dec-13	23:00	187	1.01
11-Dec-13	0:00	129	1.27
11-Dec-13	1:00	117	1.11
11-Dec-13	2:00	117	1.20
11-Dec-13	3:00	107	1.89
11-Dec-13	4:00	107	2.13
11-Dec-13	5:00	114	1.70
11-Dec-13	6:00	104	2.07
11-Dec-13	7:00	118	2.66
11-Dec-13	8:00	119	4.25
11-Dec-13	9:00	116	4.67
11-Dec-13	10:00	108	2.79
11-Dec-13	11:00	134	2.41
11-Dec-13	12:00	137	2.43
11-Dec-13	13:00	120	2.44
11-Dec-13	14:00	113	2.31
11-Dec-13	15:00	165	2.28
11-Dec-13	16:00	156	2.14
11-Dec-13	17:00	149	2.14
11-Dec-13	18:00	155	2.23
11-Dec-13	19:00	120	2.41
11-Dec-13	20:00	126	1.66
11-Dec-13	21:00	135	1.73
11-Dec-13	22:00	85	2.63
11-Dec-13	23:00	102	1.82
17-Dec-13	0:00	107	3.19

17-Dec-13	1:00	102	2.64
17-Dec-13	2:00	176	1.73
17-Dec-13	3:00	244	0.91
17-Dec-13	4:00	283	1.45
17-Dec-13	5:00	269	1.26
17-Dec-13	6:00	240	0.94
17-Dec-13	7:00	248	0.75
17-Dec-13	8:00	277	1.33
17-Dec-13	9:00	277	1.05
17-Dec-13	10:00	248	0.98
17-Dec-13	11:00	277	1.32
17-Dec-13	12:00	281	1.87
17-Dec-13	13:00	287	1.33
17-Dec-13	14:00	281	1.31
17-Dec-13	15:00	285	1.33
17-Dec-13	16:00	243	1.38
17-Dec-13	17:00	263	1.60
17-Dec-13	18:00	295	1.91
17-Dec-13	19:00	286	1.62
17-Dec-13	20:00	253	1.35
17-Dec-13	21:00	249	1.42
17-Dec-13	22:00	264	1.77
17-Dec-13	23:00	234	1.55
23-Dec-13	0:00	238	0.51
23-Dec-13	1:00	220	0.53
23-Dec-13	2:00	192	1.53
23-Dec-13	3:00	103	2.97
23-Dec-13	4:00	111	3.59
23-Dec-13	5:00	111	3.60
23-Dec-13	6:00	103	3.20
23-Dec-13	7:00	114	1.88
23-Dec-13	8:00	113	2.65
23-Dec-13	9:00	168	1.47
23-Dec-13	10:00	118	1.82
23-Dec-13	11:00	123	1.96
23-Dec-13	12:00	139	1.72
23-Dec-13	13:00	200	1.36
23-Dec-13	14:00	250	1.83
23-Dec-13	15:00	267	1.98
23-Dec-13	16:00	296	2.07
23-Dec-13	17:00	300	1.45
23-Dec-13	18:00	302	1.44
23-Dec-13	19:00	272	0.78
23-Dec-13	20:00	293	0.96
23-Dec-13	21:00	271	0.68
23-Dec-13	22:00	217	0.64
23-Dec-13	23:00	165	1.64
28-Dec-13	0:00	93	3.78
28-Dec-13	1:00	109	4.12
28-Dec-13	2:00	97	3.88
28-Dec-13	3:00	96	3.84

28-Dec-13	4:00	101	3.58
28-Dec-13	5:00	123	2.90
28-Dec-13	6:00	115	3.53
28-Dec-13	7:00	112	3.46
28-Dec-13	8:00	112	3.69
28-Dec-13	9:00	105	3.52
28-Dec-13	10:00	116	2.95
28-Dec-13	11:00	107	2.90
28-Dec-13	12:00	161	1.94
28-Dec-13	13:00	261	1.78
28-Dec-13	14:00	275	1.93
28-Dec-13	15:00	275	1.71
28-Dec-13	16:00	265	1.27
28-Dec-13	17:00	290	1.03
28-Dec-13	18:00	269	2.44
28-Dec-13	19:00	269	2.05
28-Dec-13	20:00	217	0.92
28-Dec-13	21:00	198	0.93
28-Dec-13	22:00	174	2.68
28-Dec-13	23:00	163	3.19

Appendix I

Impact Water Quality Monitoring Results

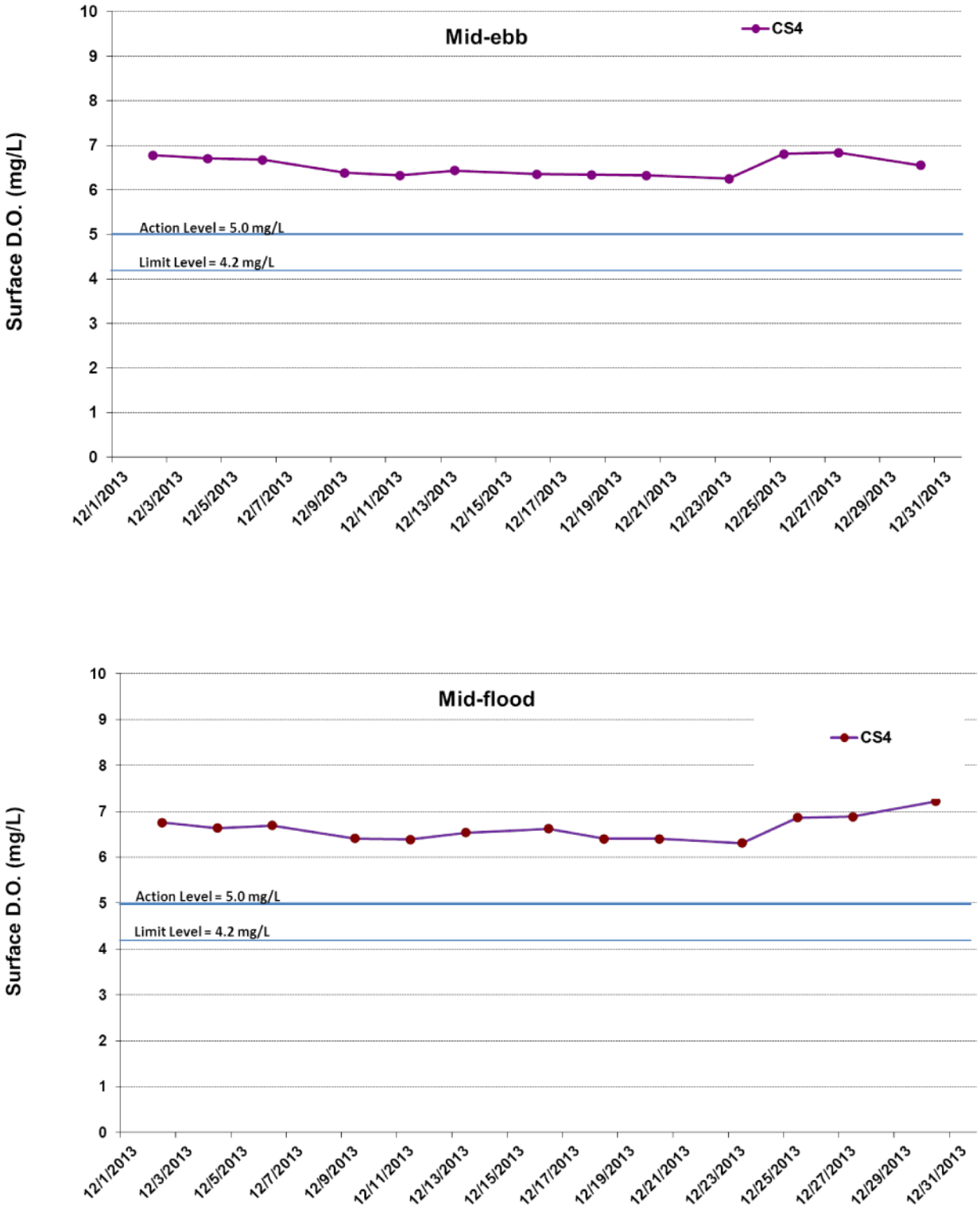


Figure I1 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 and 31 December 2013 at CS4.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

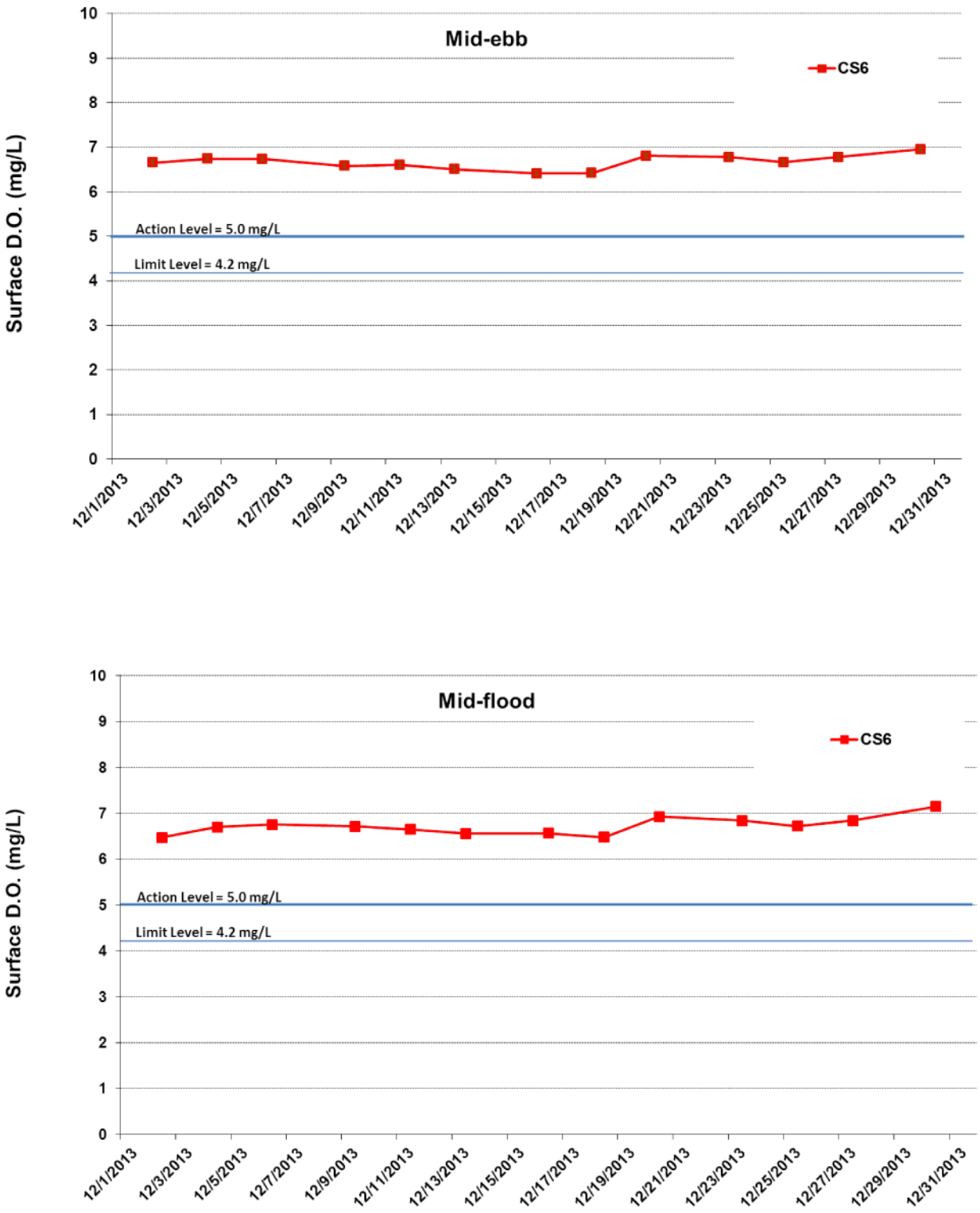
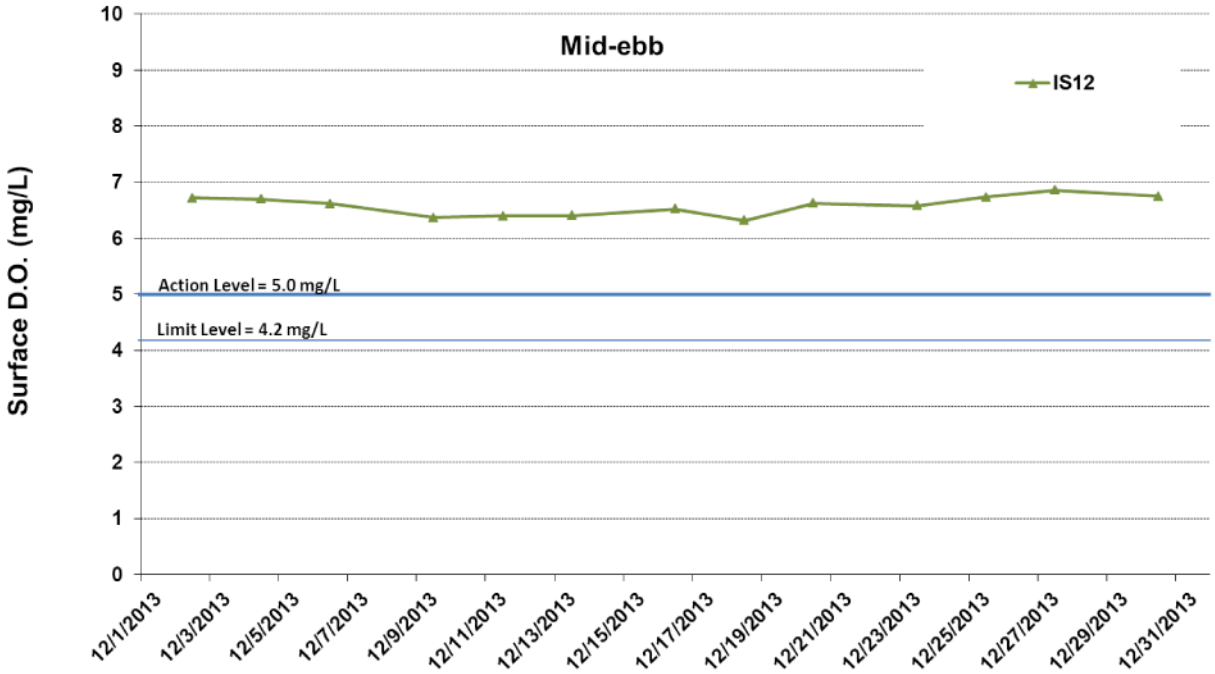


Figure I2 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 and 31 December 2013 at CS6.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls



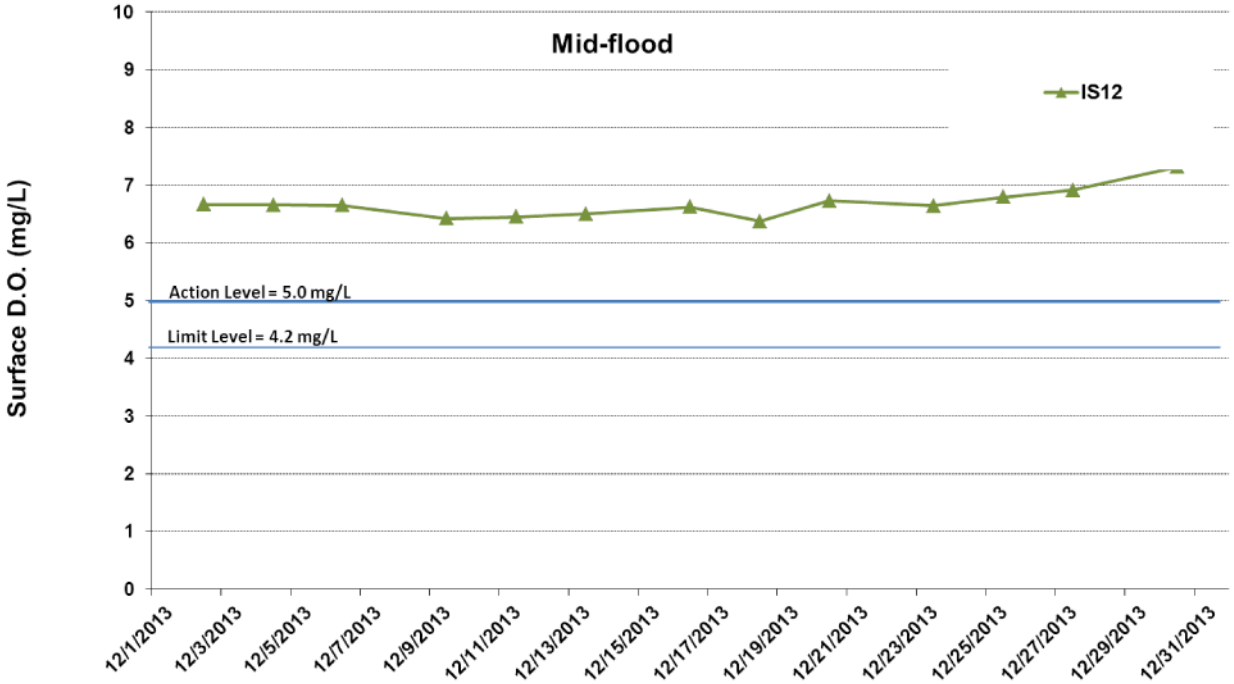


Figure I3 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 and 31 December 2013 at IS12.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

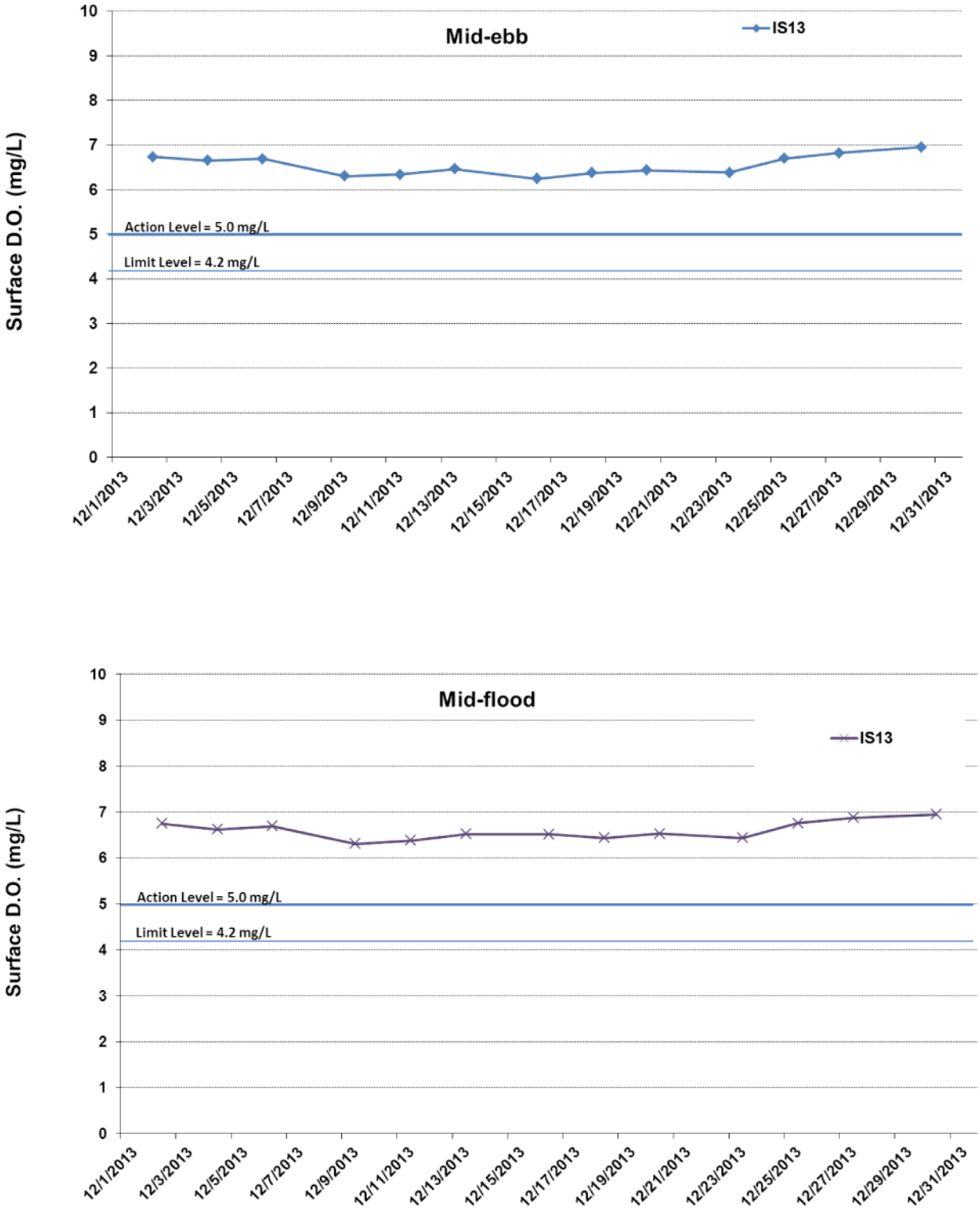


Figure I4 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 and 31 December 2013 at IS13.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

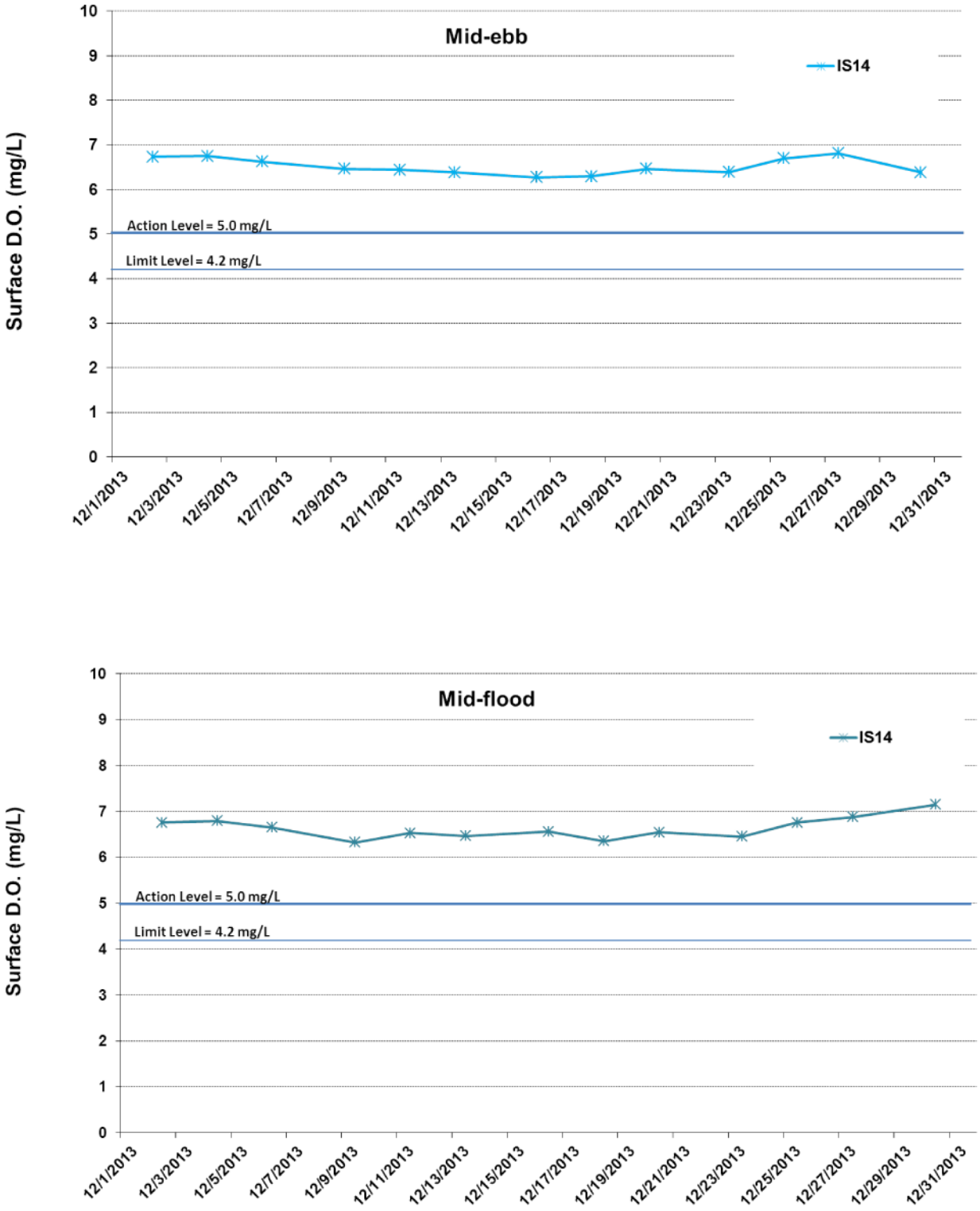


Figure I5 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 and 31 December 2013 at IS14.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

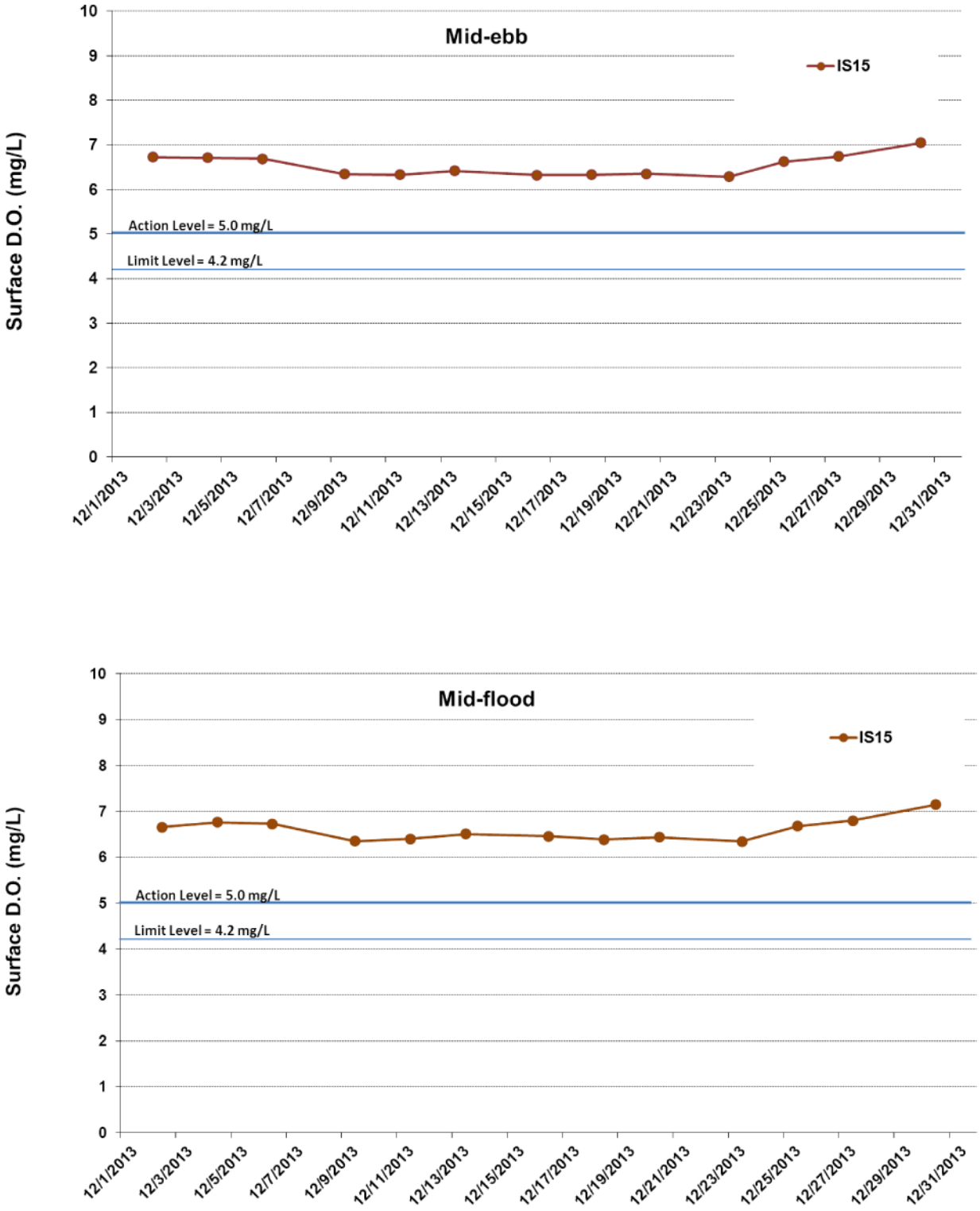
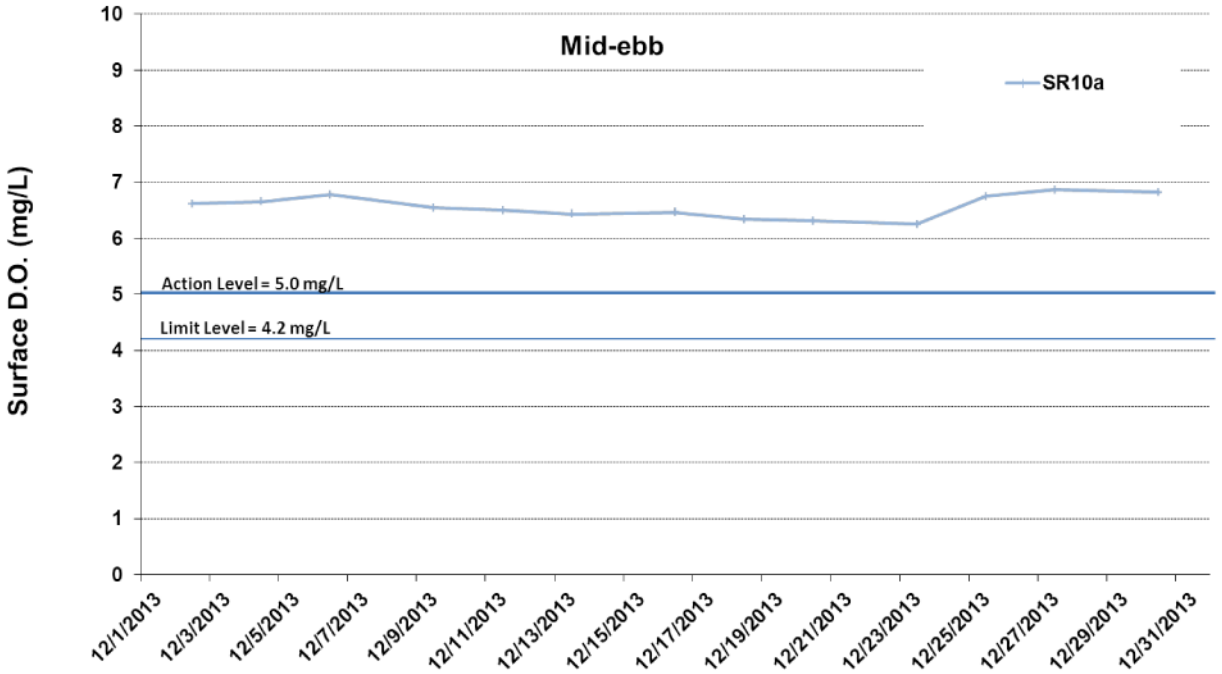


Figure I6 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 and 31 December 2013 at IS15.

Ref: *0212330_Impact-WQM_December2013_graphs_Rev a.xls*



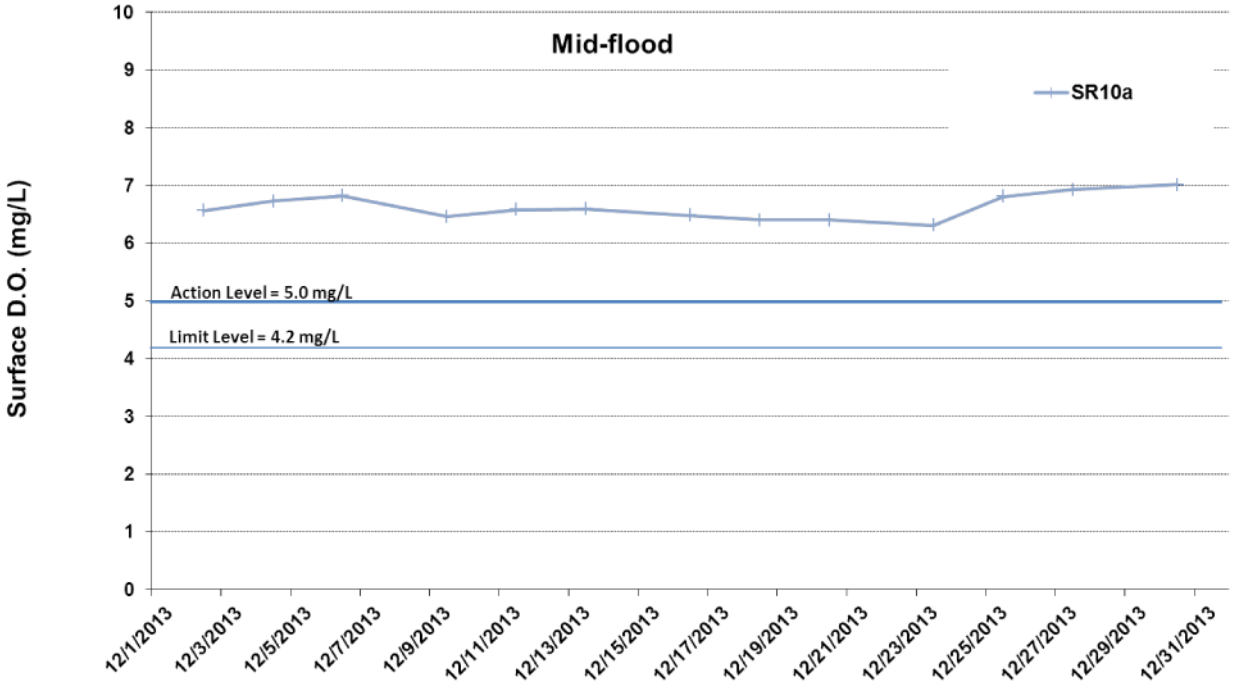
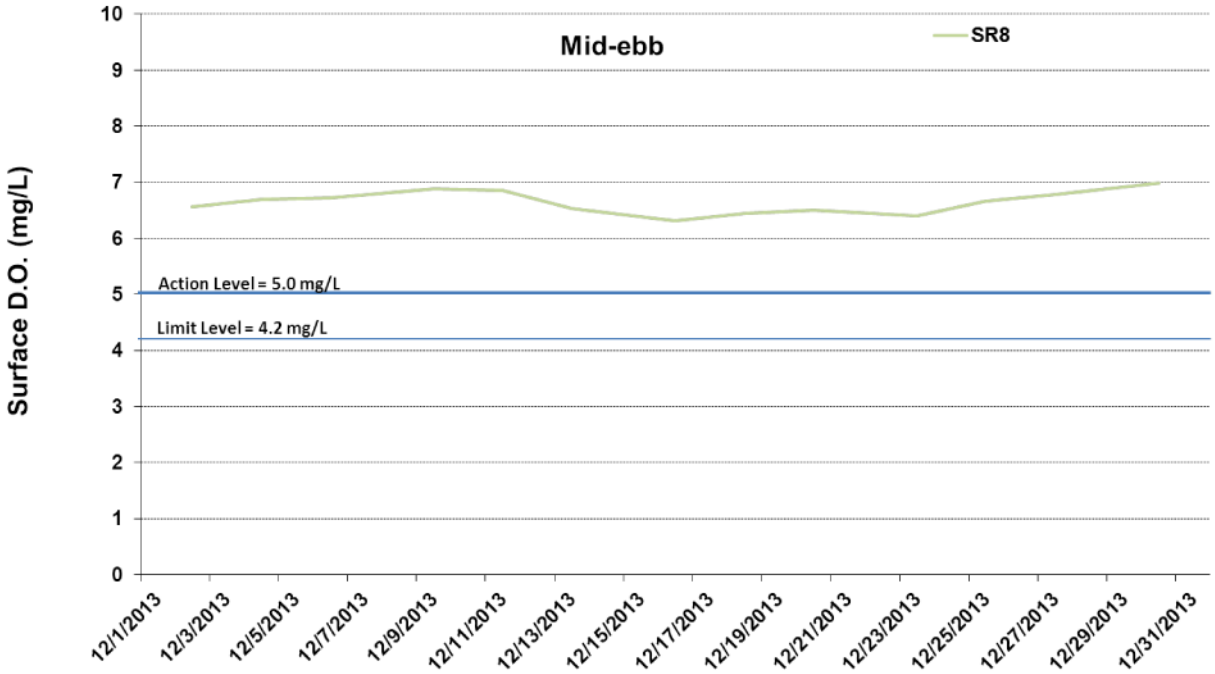


Figure I7 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 and 31 December 2013 at SR10a.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls



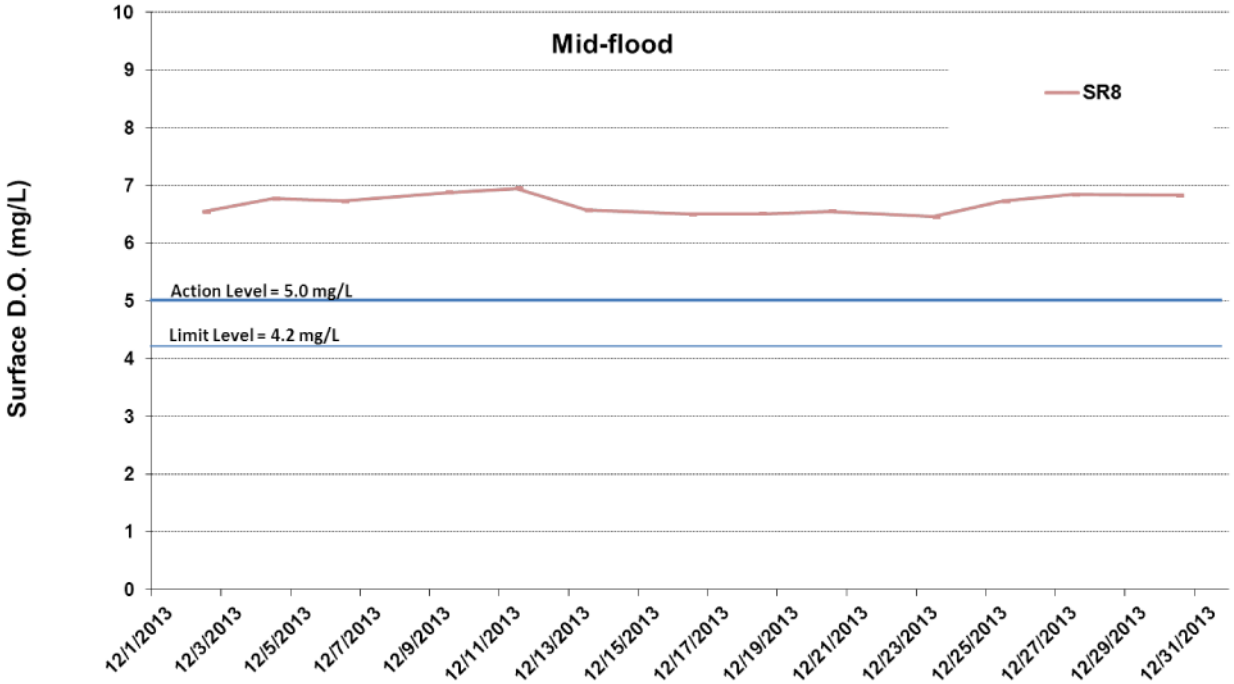


Figure I8 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 and 31 December 2013 at SR8.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

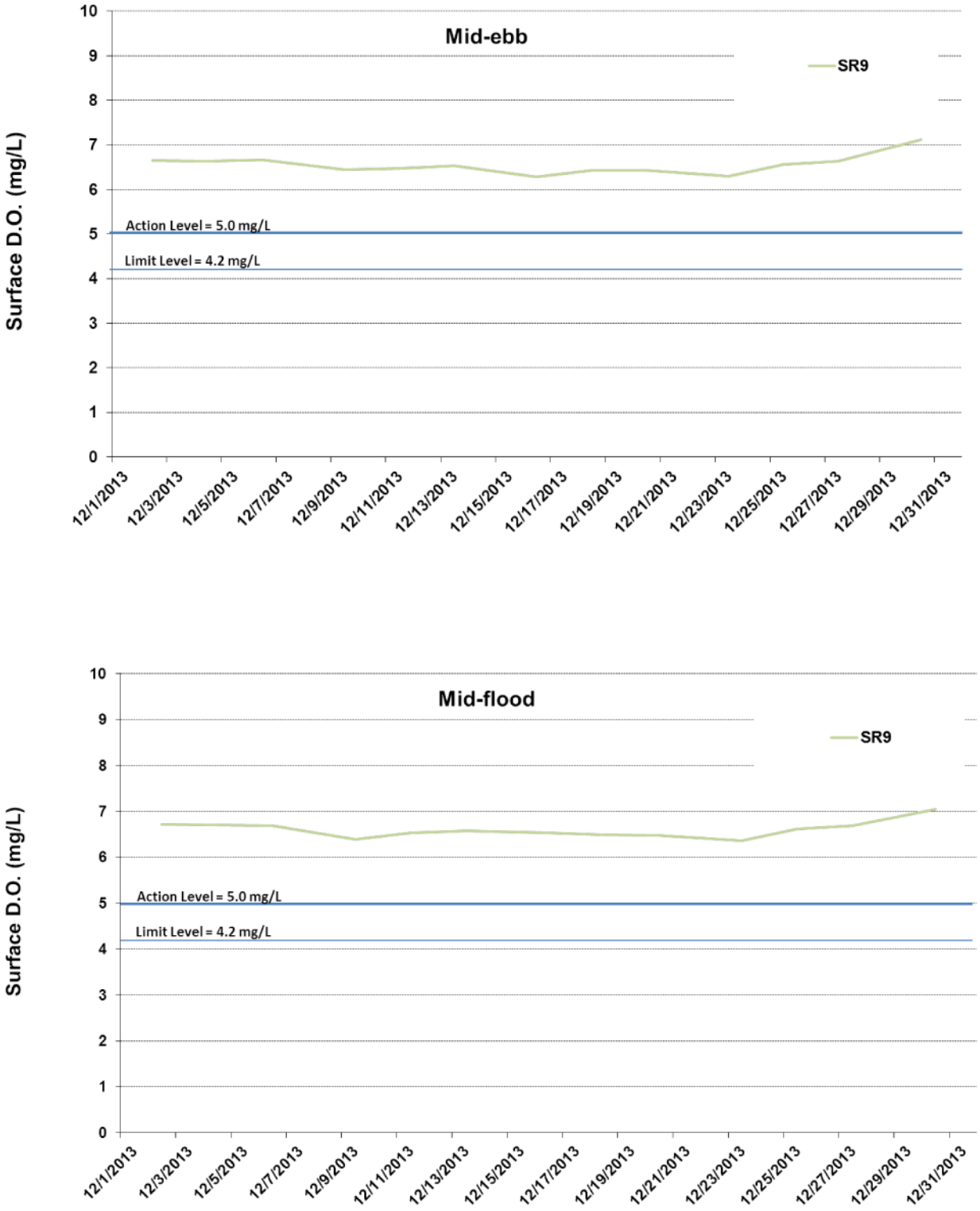
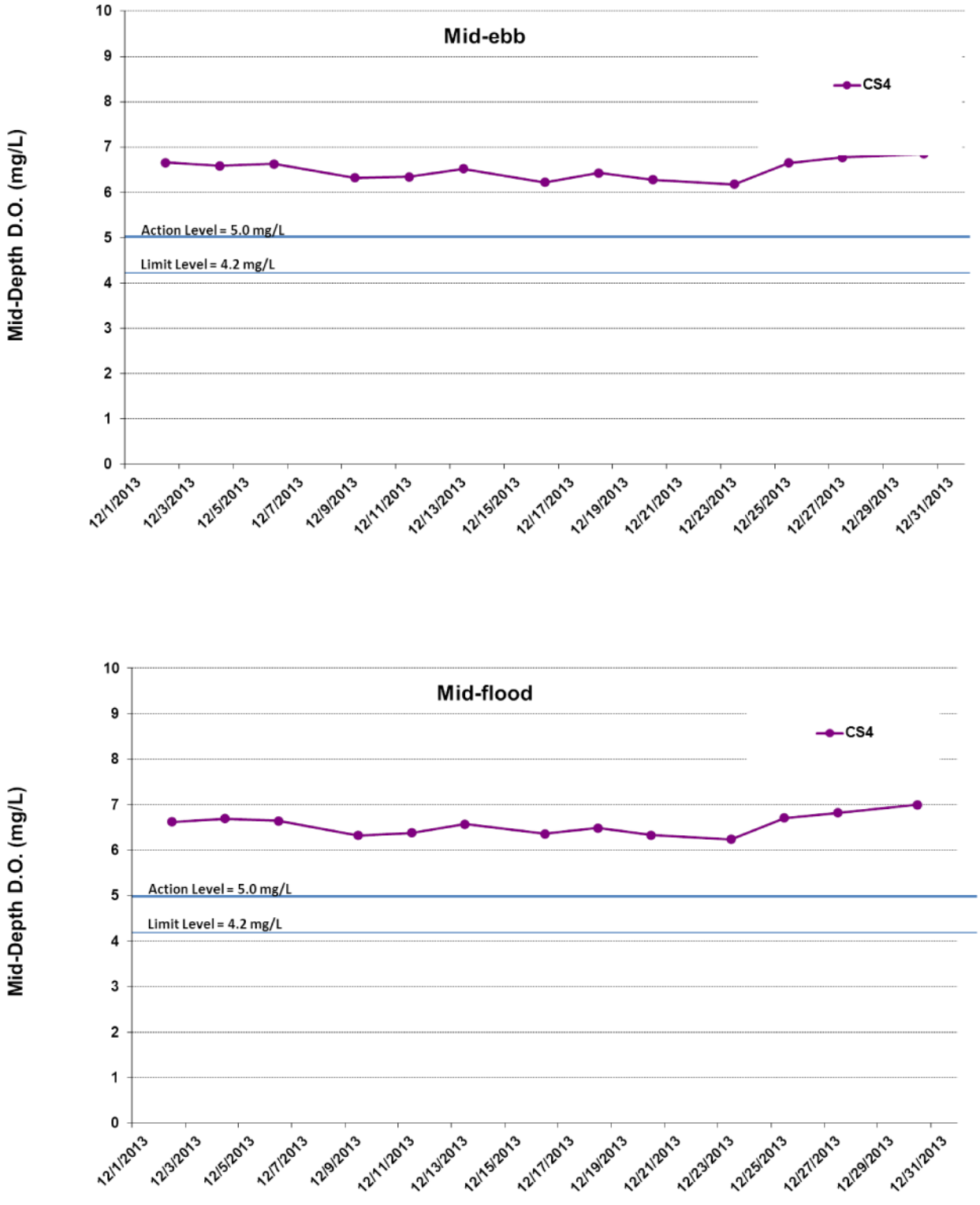


Figure I9 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 and 31 December 2013 at SR9.

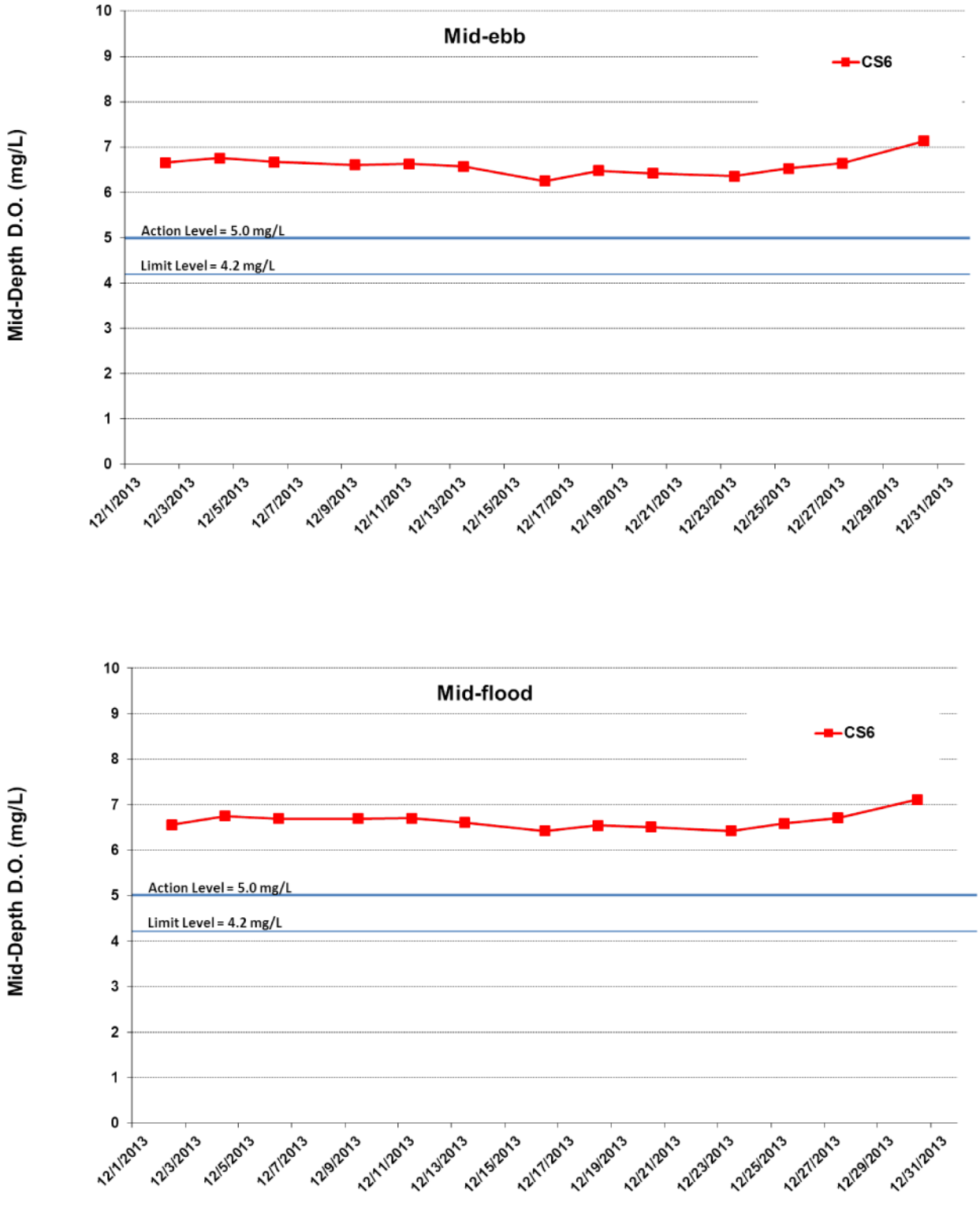
Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls



*No data for Stations SR8 and SR9 due to shallow water depth (< 6m).

Figure I10 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters between 1 and 31 December 2013 at the CS4.

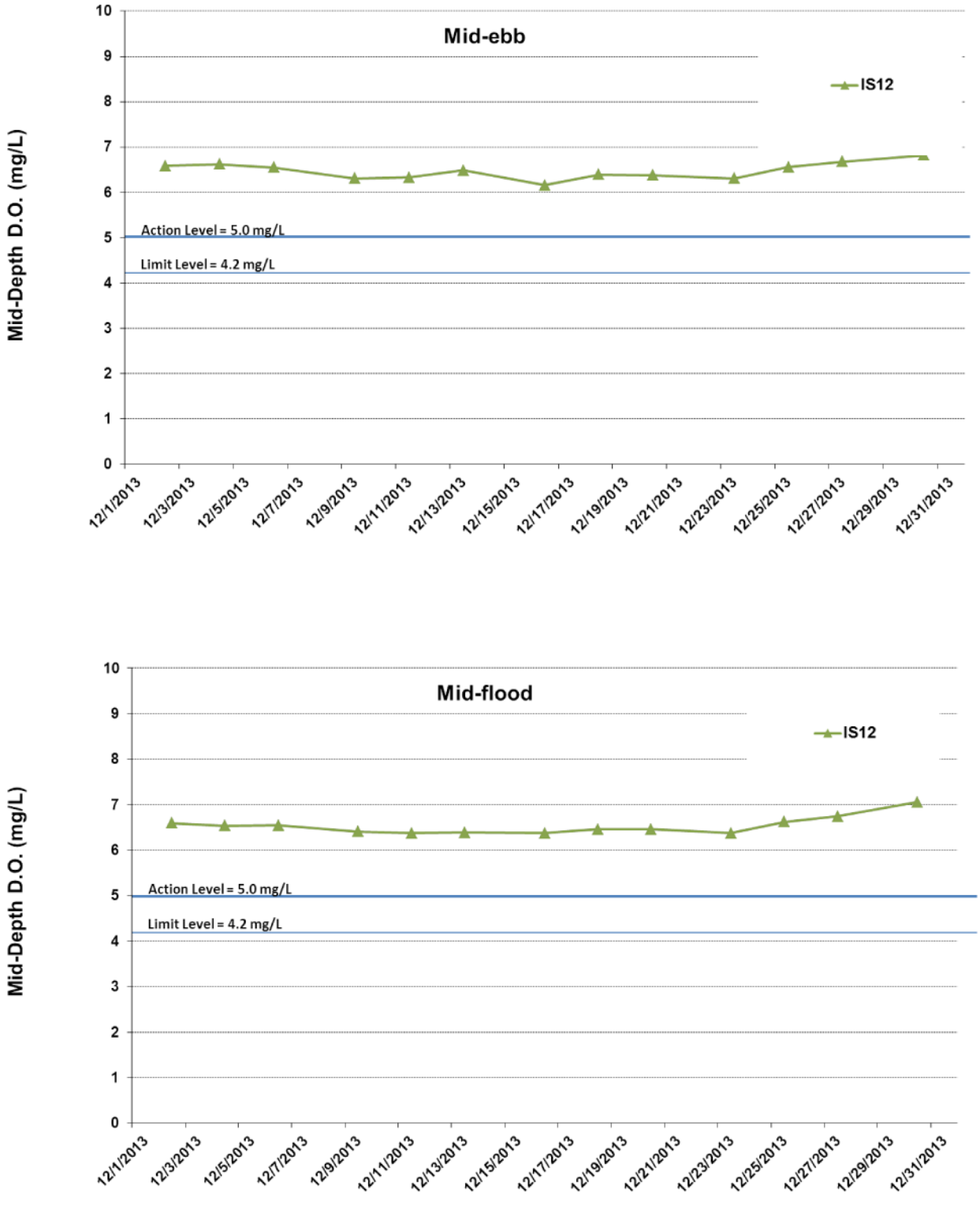
Ref: *0212330_Impact-WQM_December2013_graphs_Rev a.xls*



*No data for Stations SR8 and SR9 due to shallow water depth (< 6m).

Figure I11 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters between 1 and 31 December 2013 at CS6.

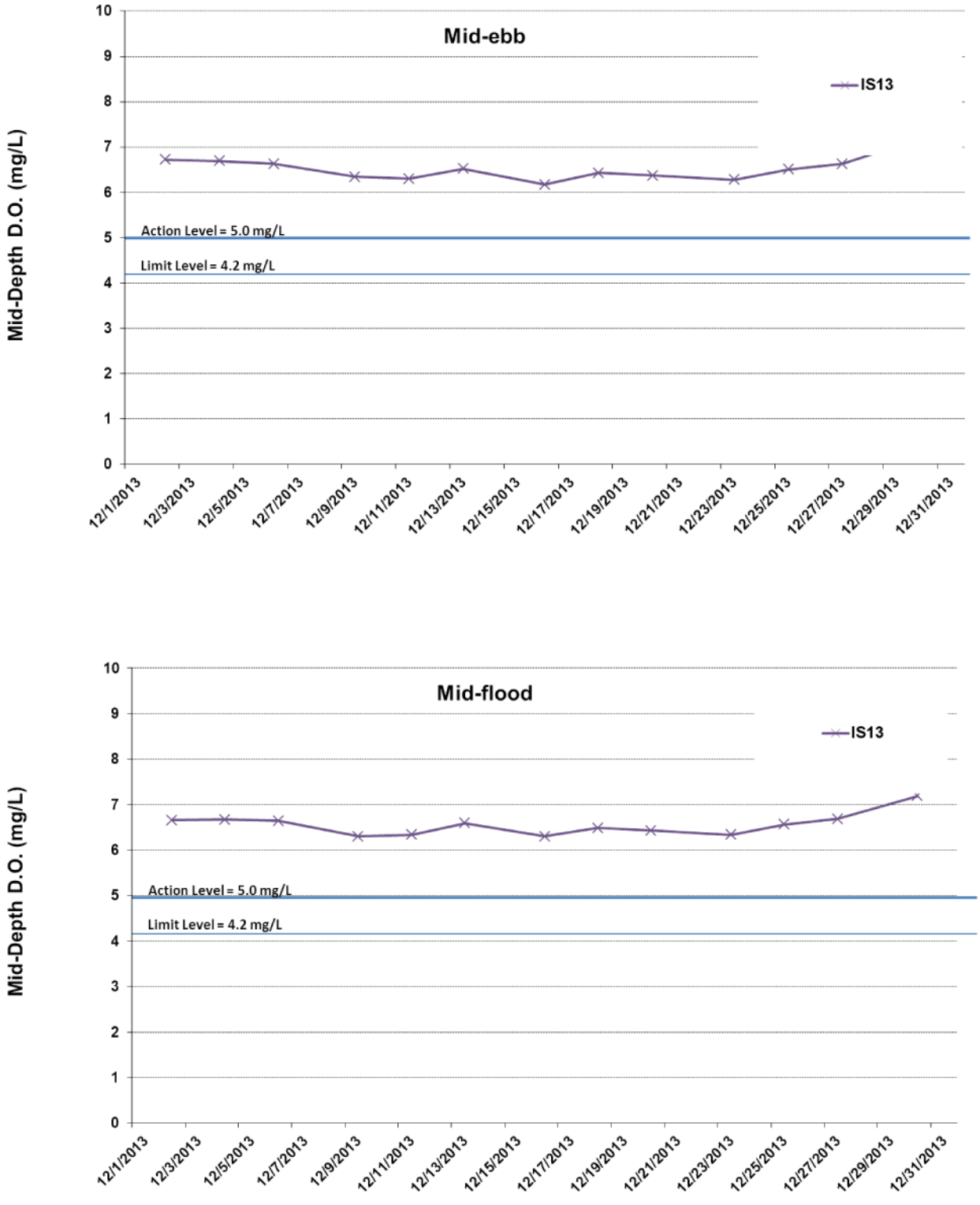
Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls



*No data for Stations SR8 and SR9 due to shallow water depth (< 6m).

Figure I12 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters between 1 and 31 December 2013 at IS12.

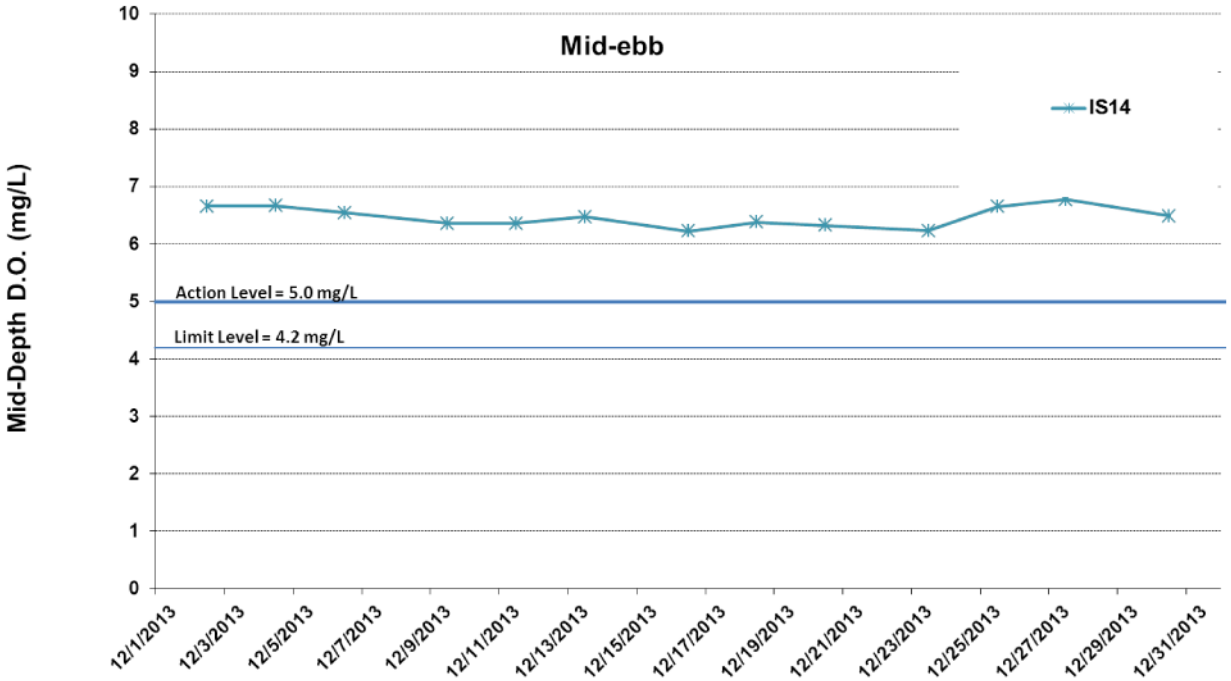
Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

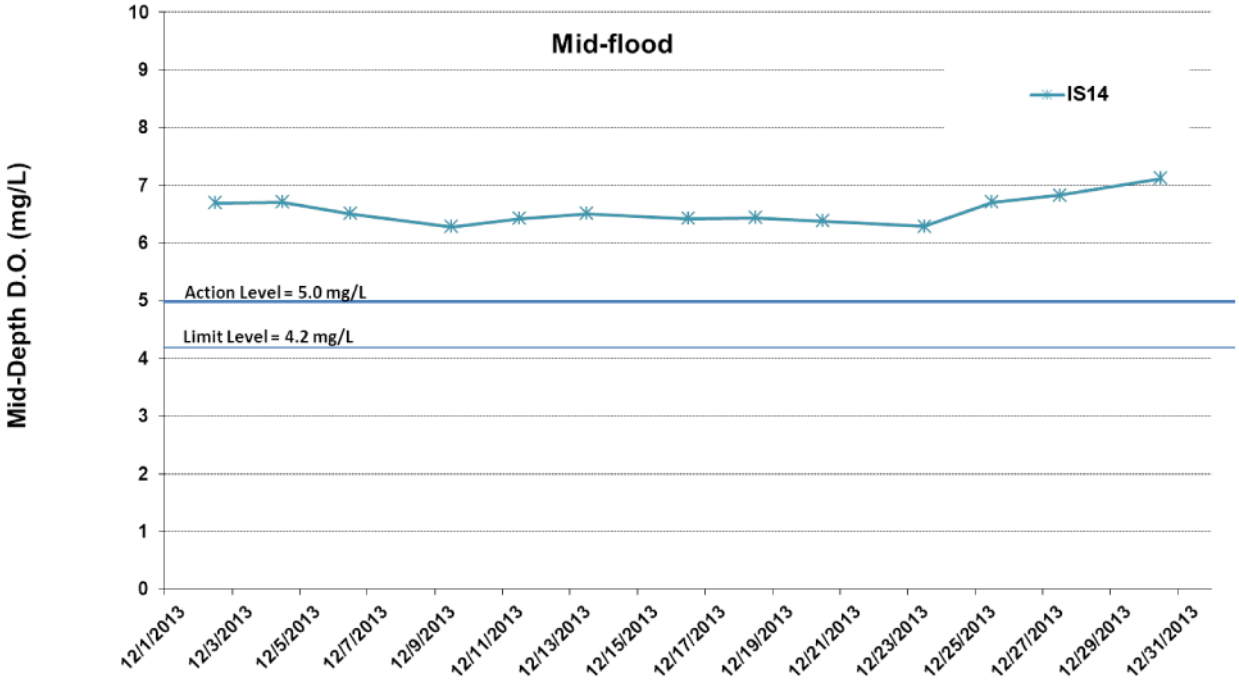


*No data for Stations SR8 and SR9 due to shallow water depth (< 6m).

Figure I13 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters between 1 and 31 December 2013 at IS13.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

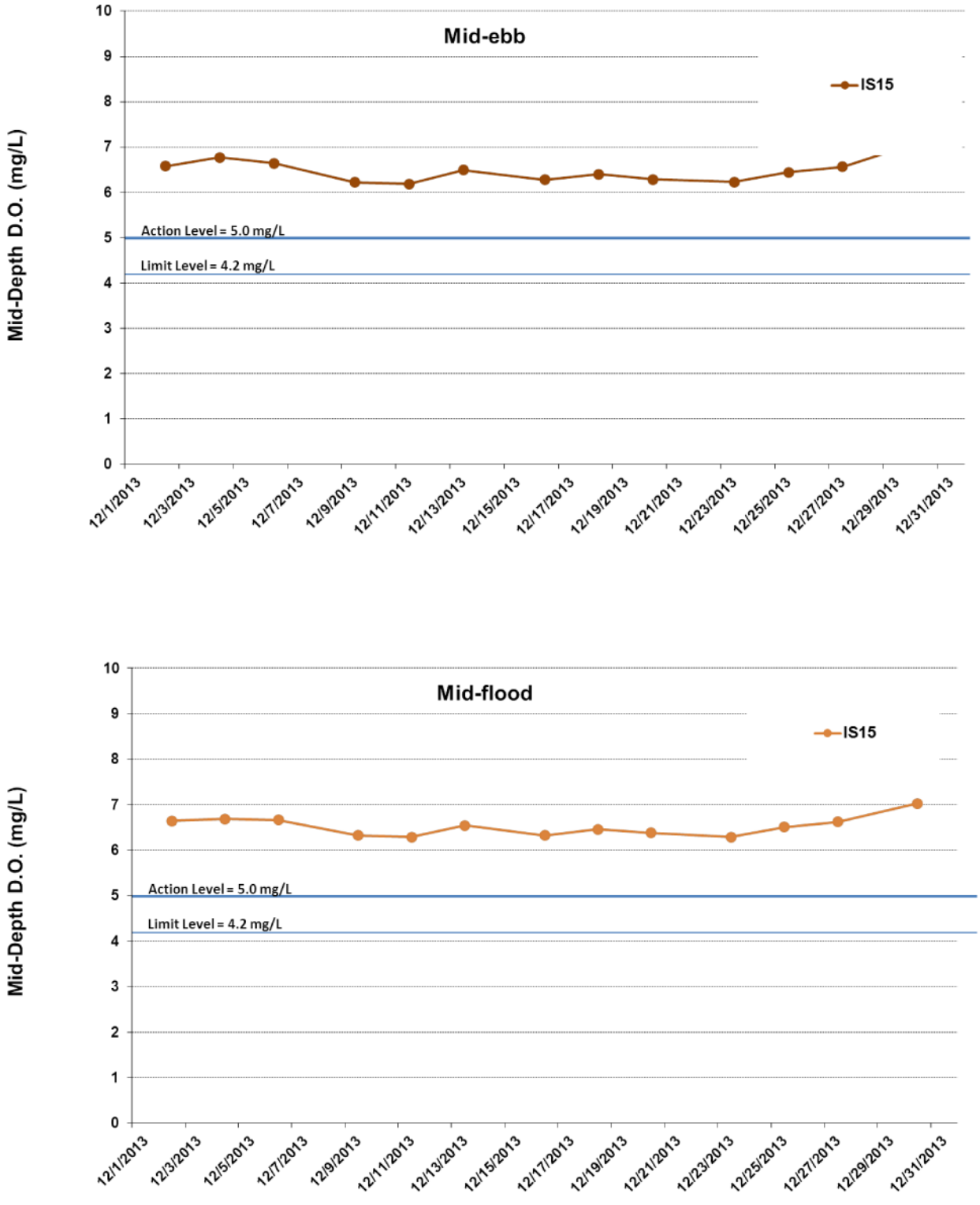




*No data for Stations SR8 and SR9 due to shallow water depth (< 6m).

Figure I14 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters between 1 and 31 December 2013 at IS14.

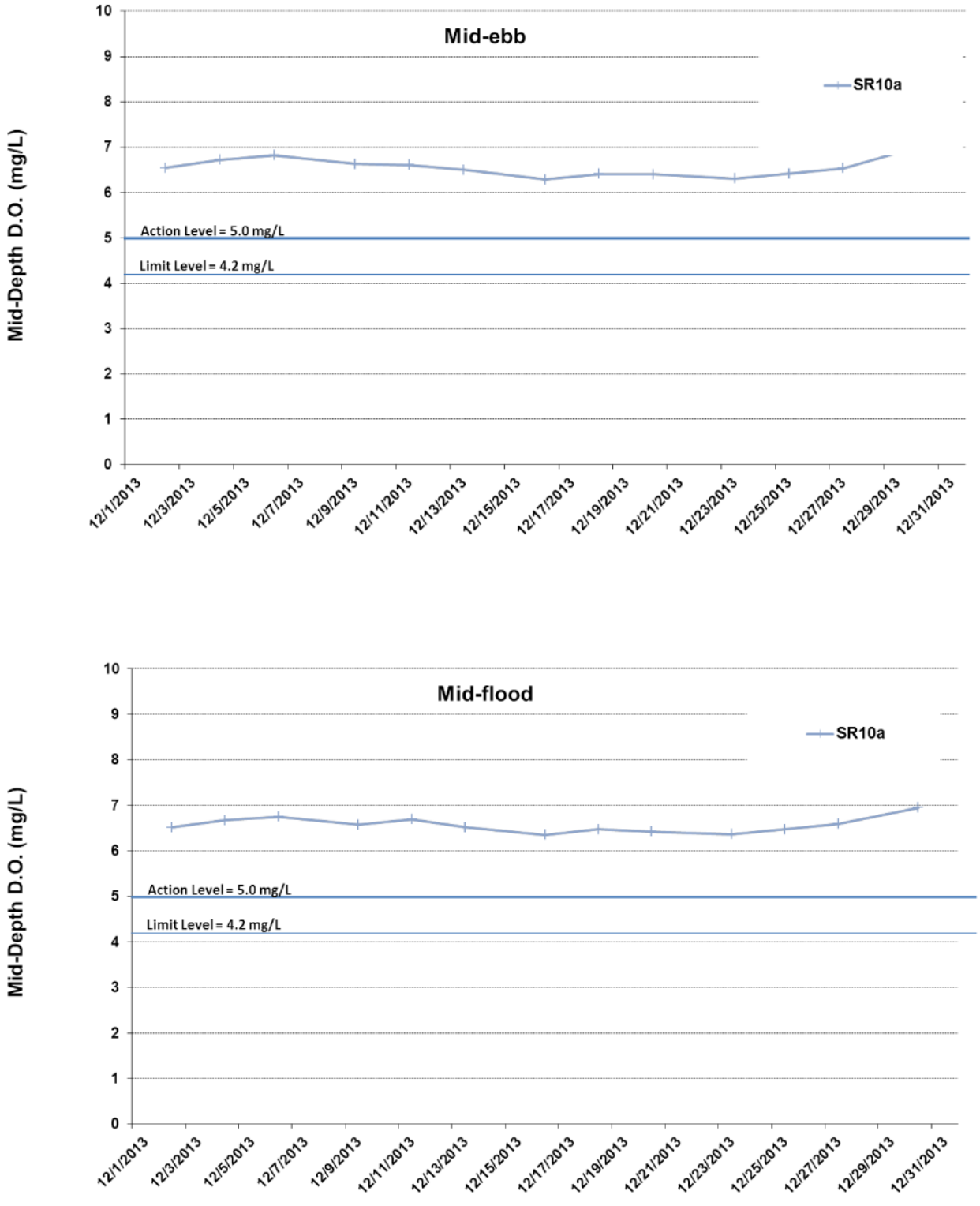
Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls



*No data for Stations SR8 and SR9 due to shallow water depth (< 6m).

Figure I15 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters between 1 and 31 December 2013 at IS15.

Ref: *0212330_Impact-WQM_December2013_graphs_Rev a.xls*



*No data for Stations SR8 and SR9 due to shallow water depth (< 6m).

Figure I16 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters between 1 and 31 December 2013 at SR10a.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

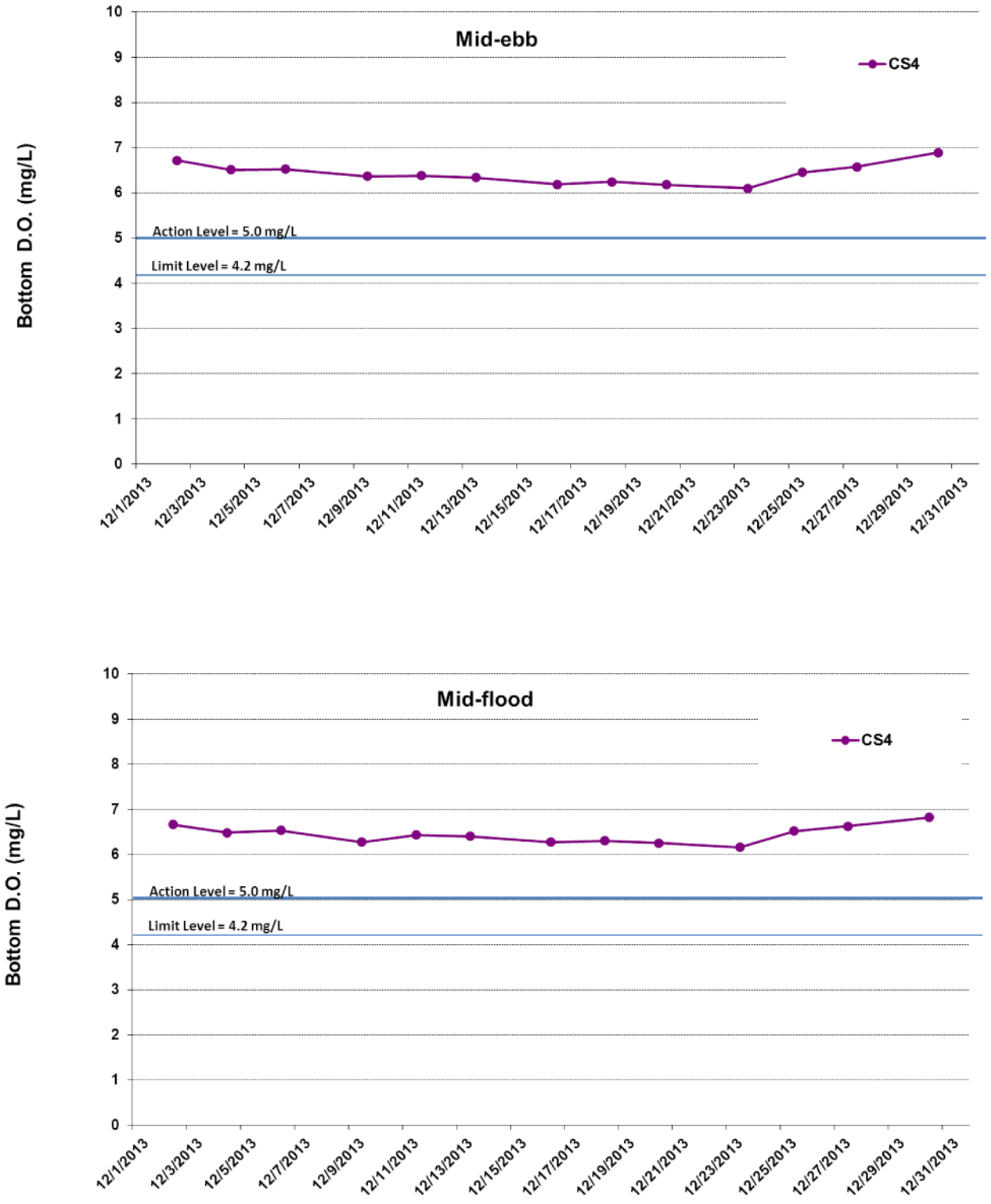


Figure I17 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 and 31 December 2013 at CS4.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

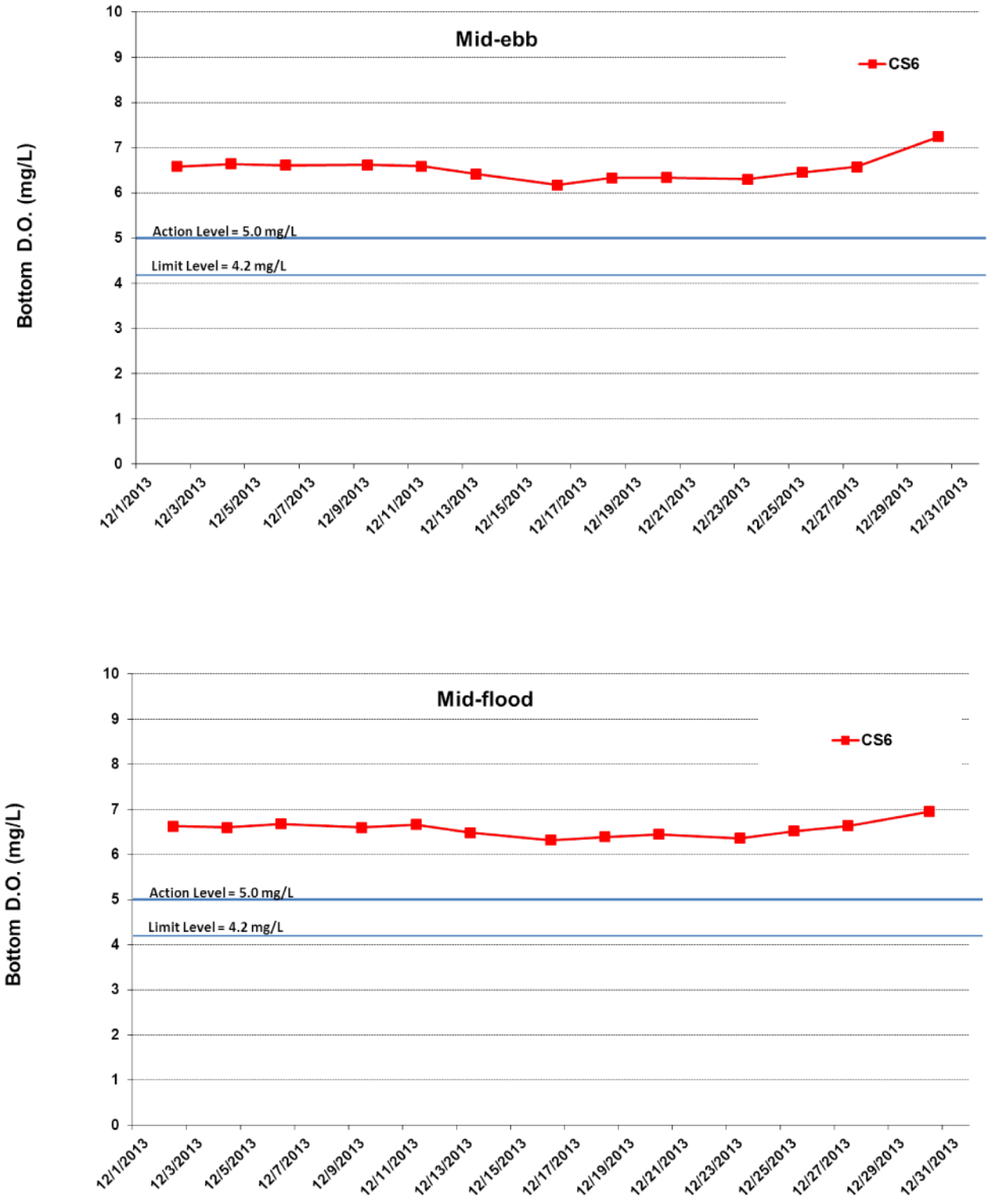


Figure I18 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 and 31 December 2013 at CS6.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

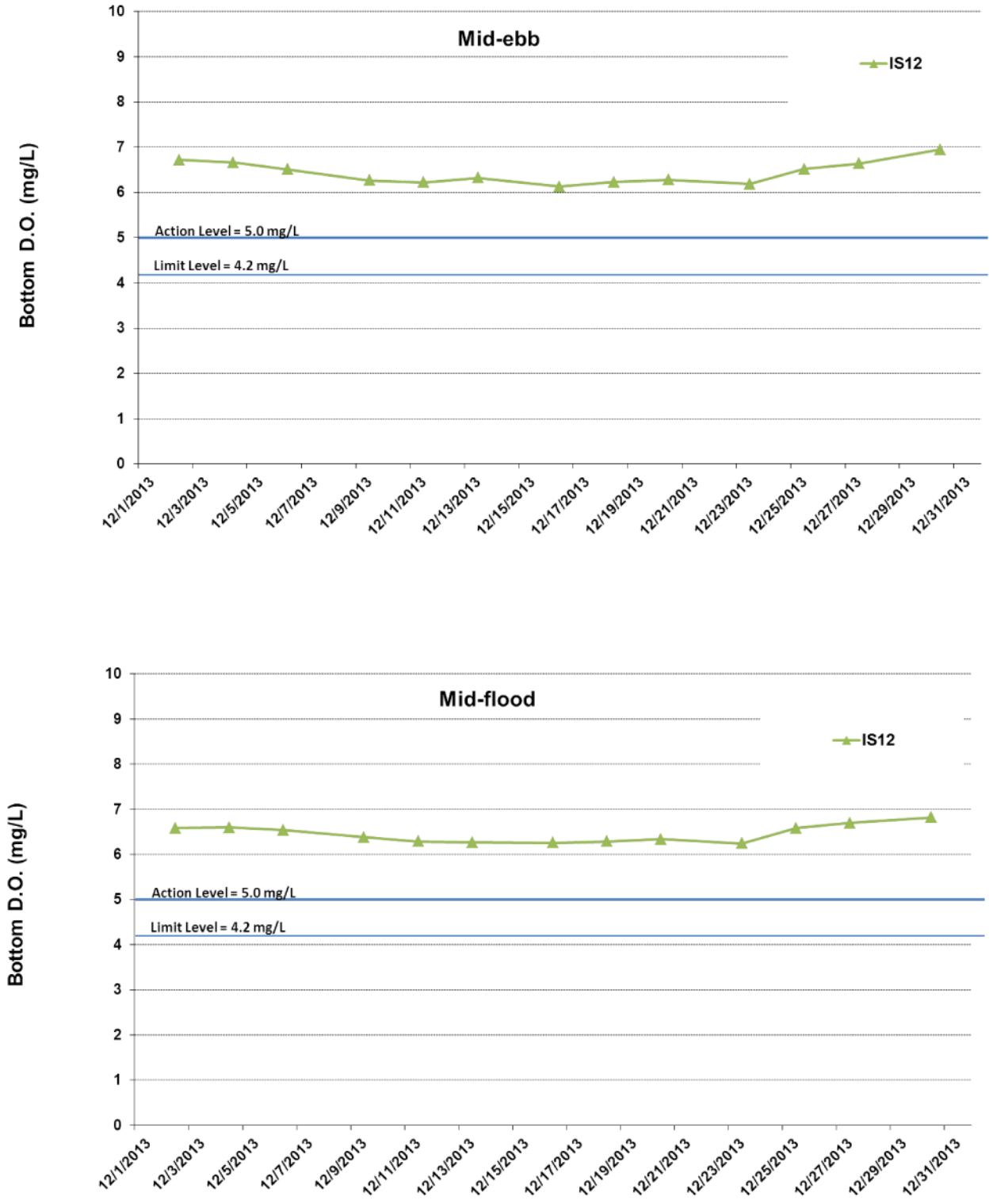


Figure I19 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 and 31 December 2013 at IS12.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

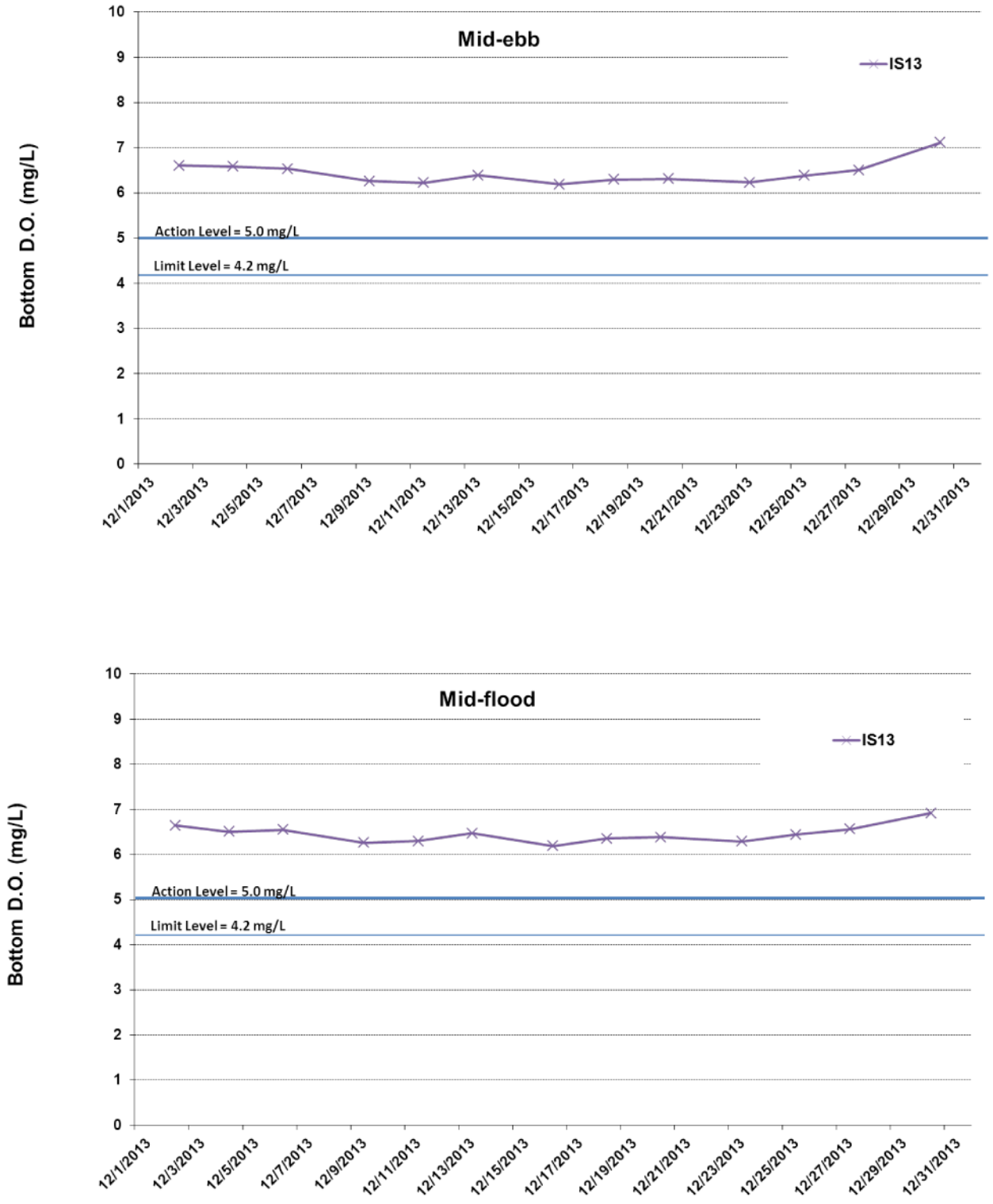


Figure I20 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 and 31 December 2013 at IS13.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

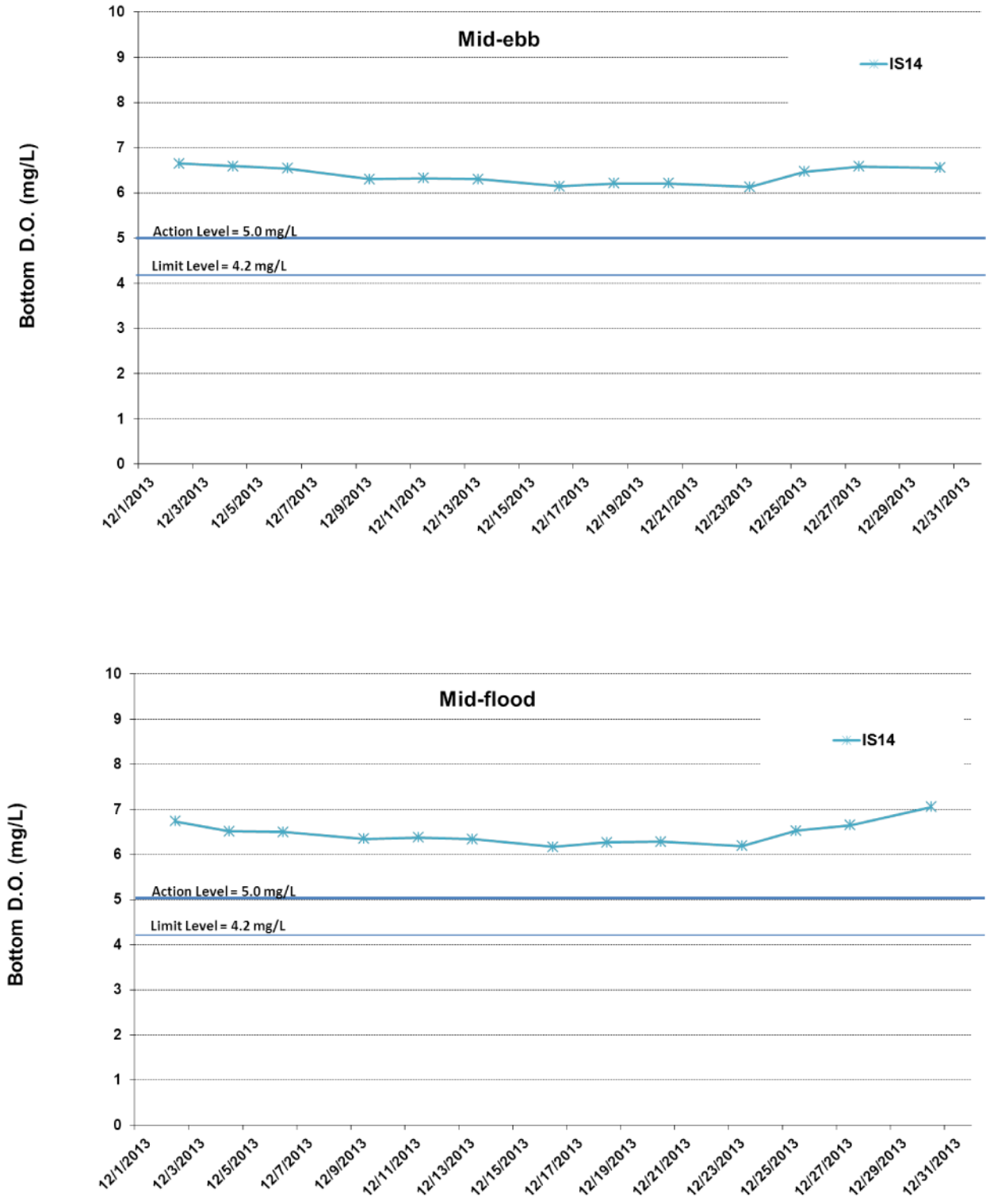


Figure I21 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 and 31 December 2013 at IS14.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

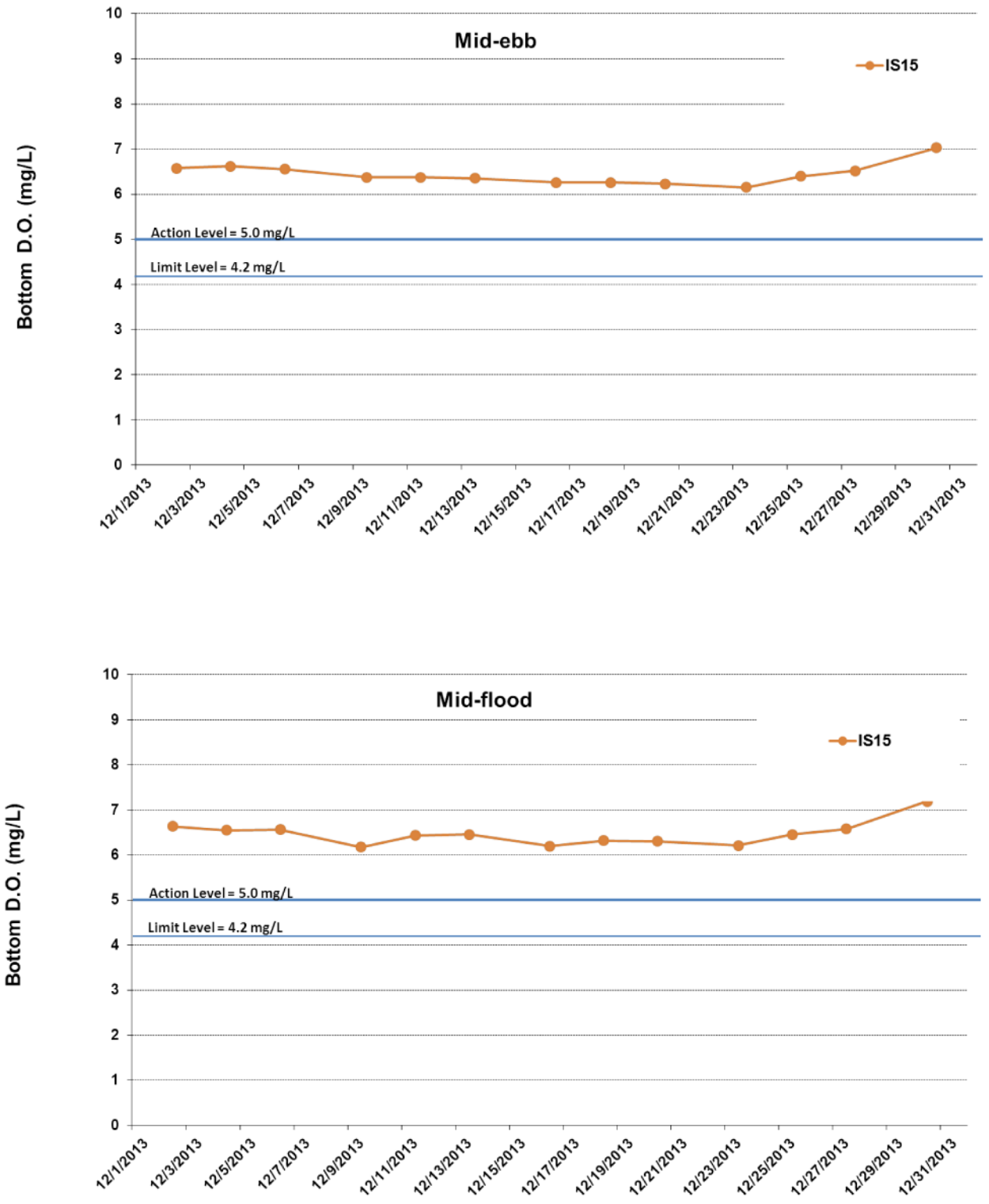


Figure I22 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 and 31 December 2013 at IS15.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

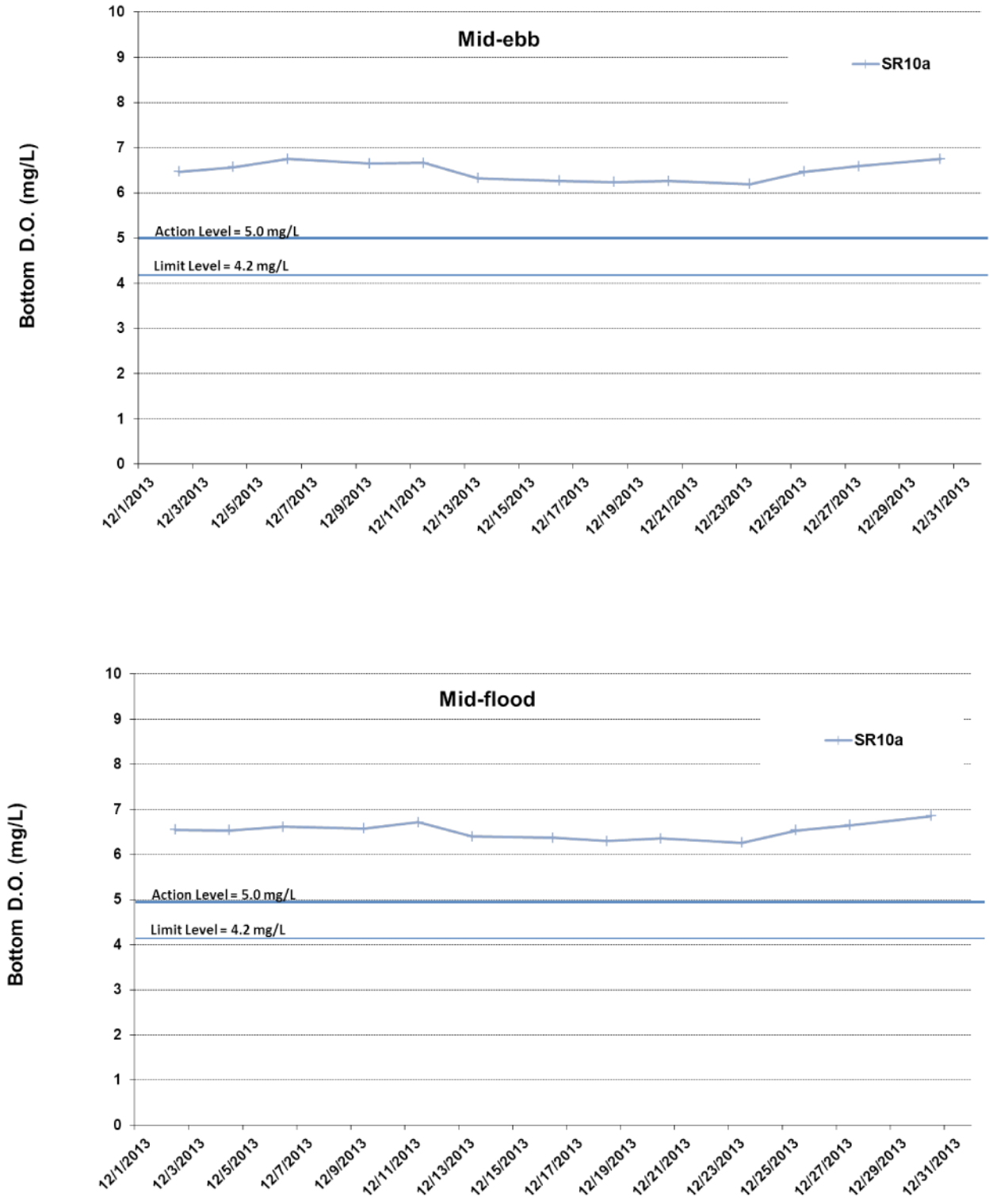


Figure I23 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 and 31 December 2013 at SR10a.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

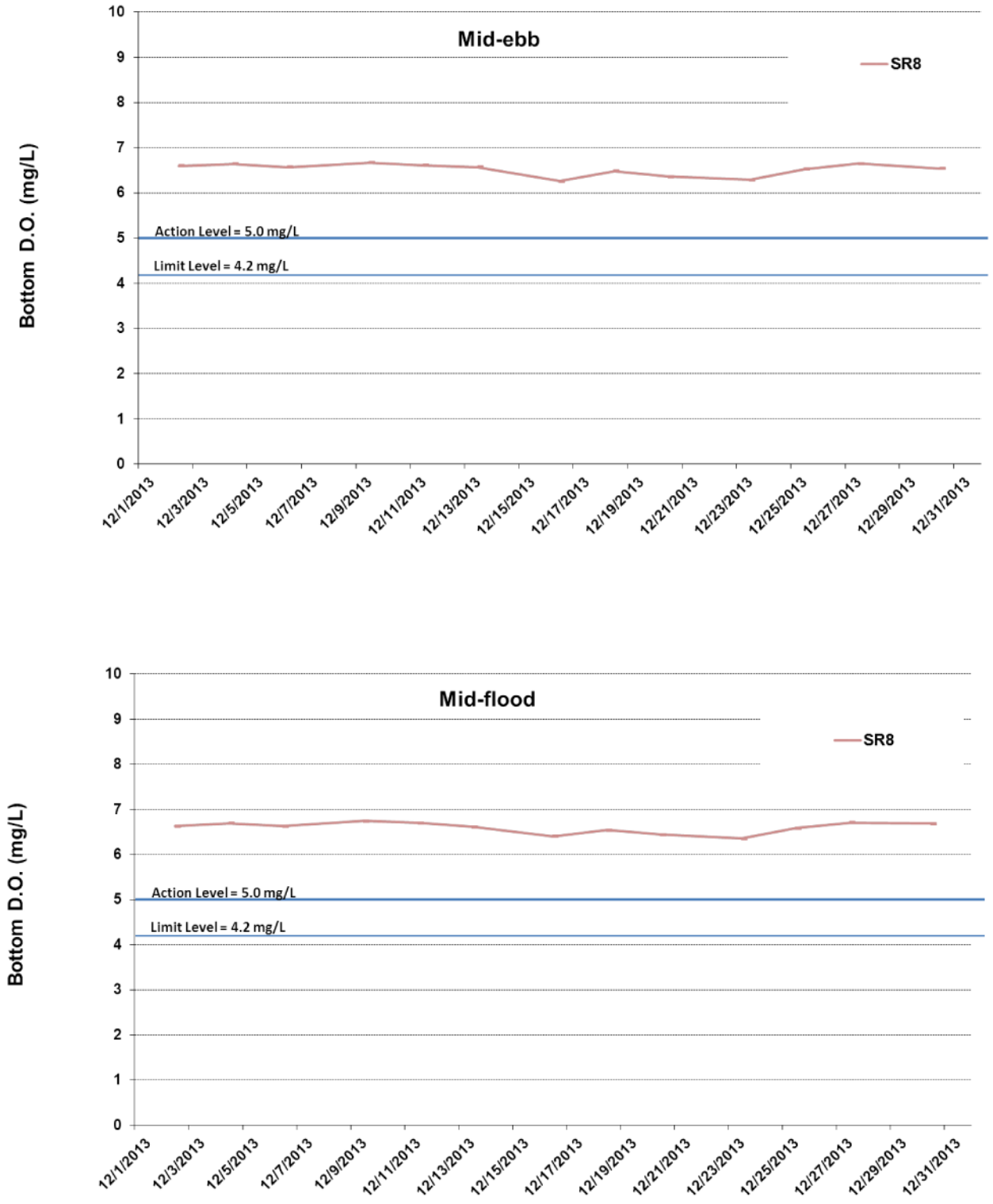


Figure I24 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 and 31 December 2013 at SR8.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

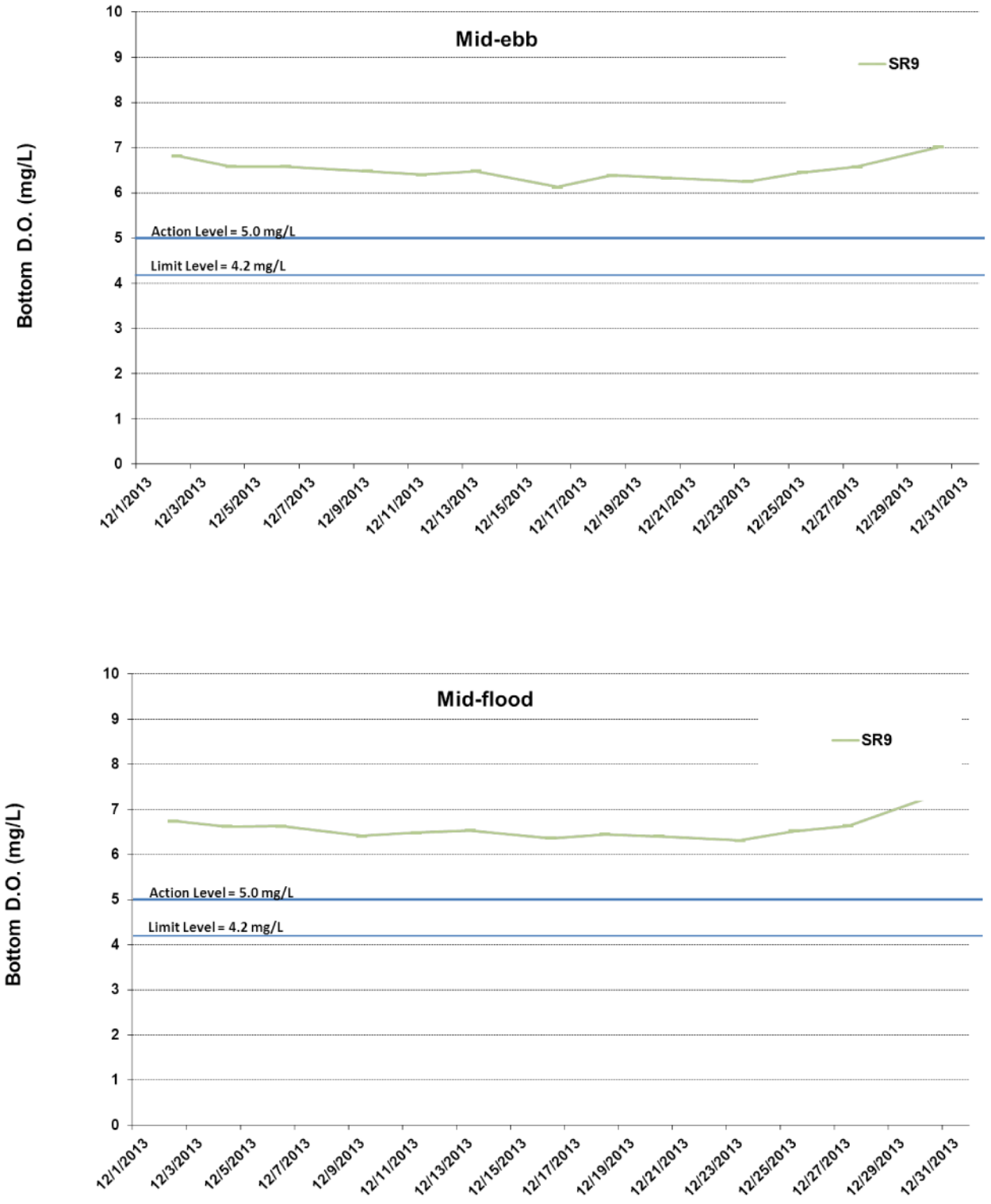
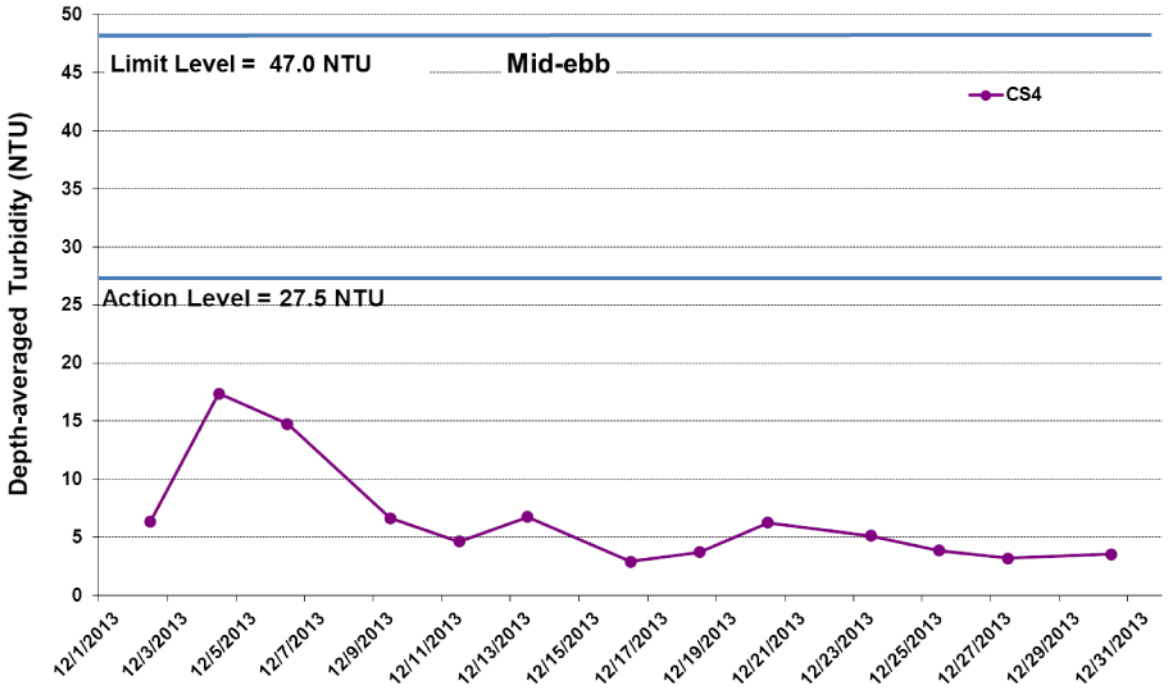


Figure I25 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 and 31 December 2013 at SR9.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls



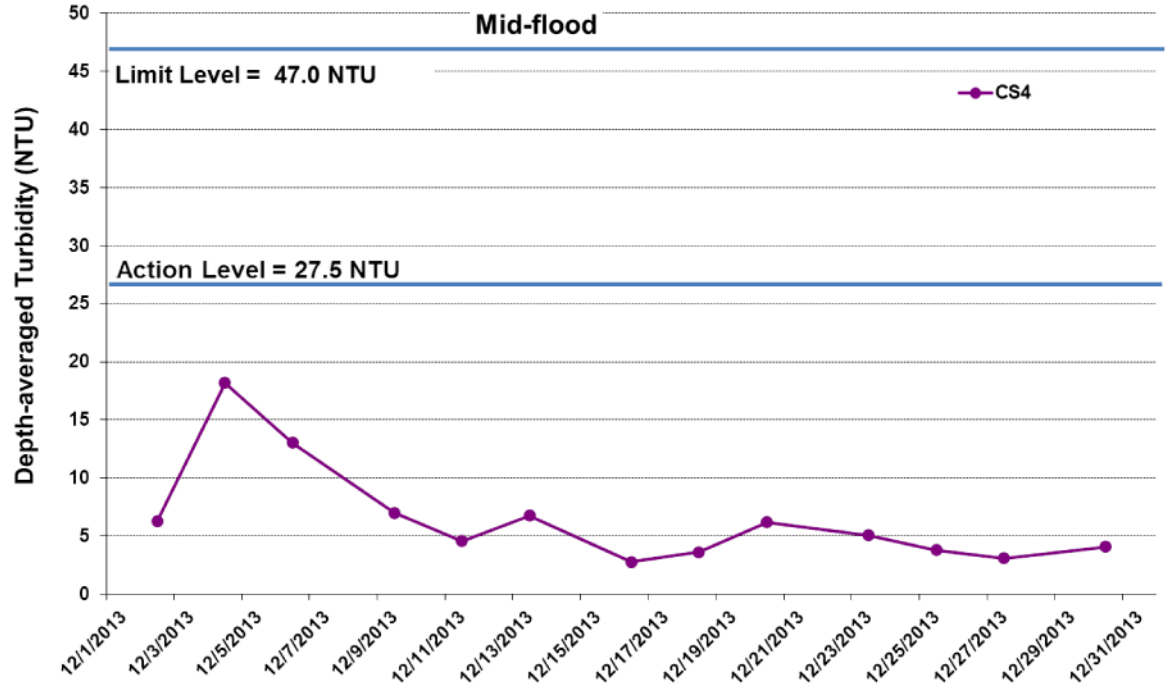
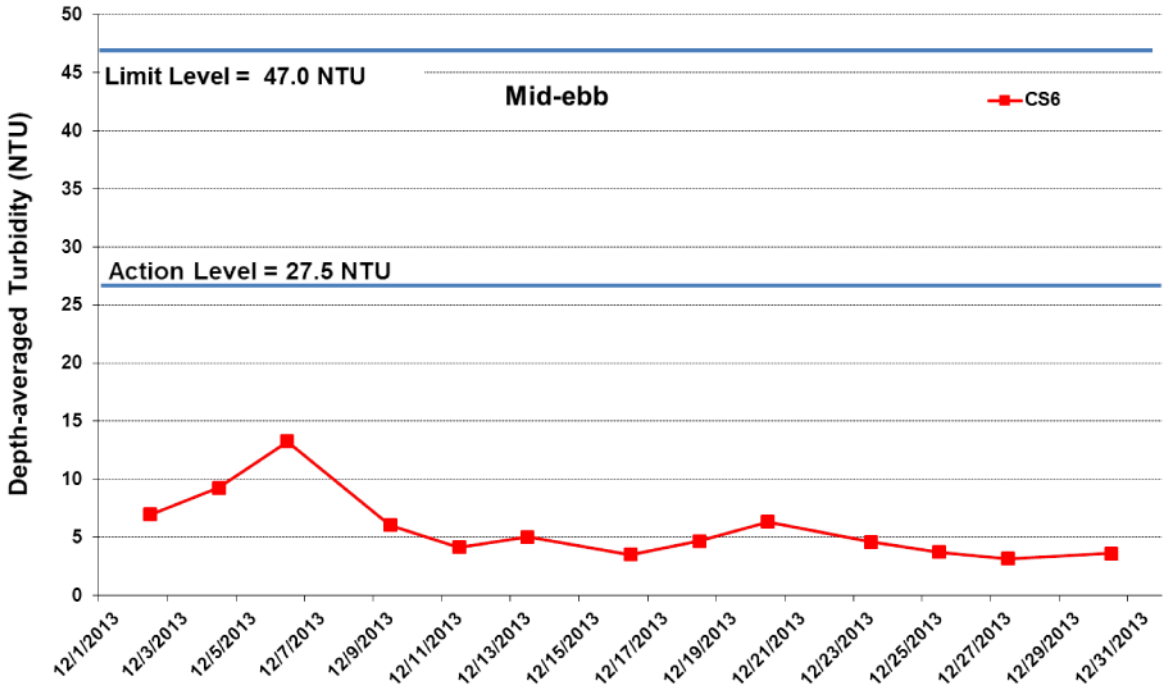


Figure I26 Impact Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 1 and 31 December 2013 at CS4.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls



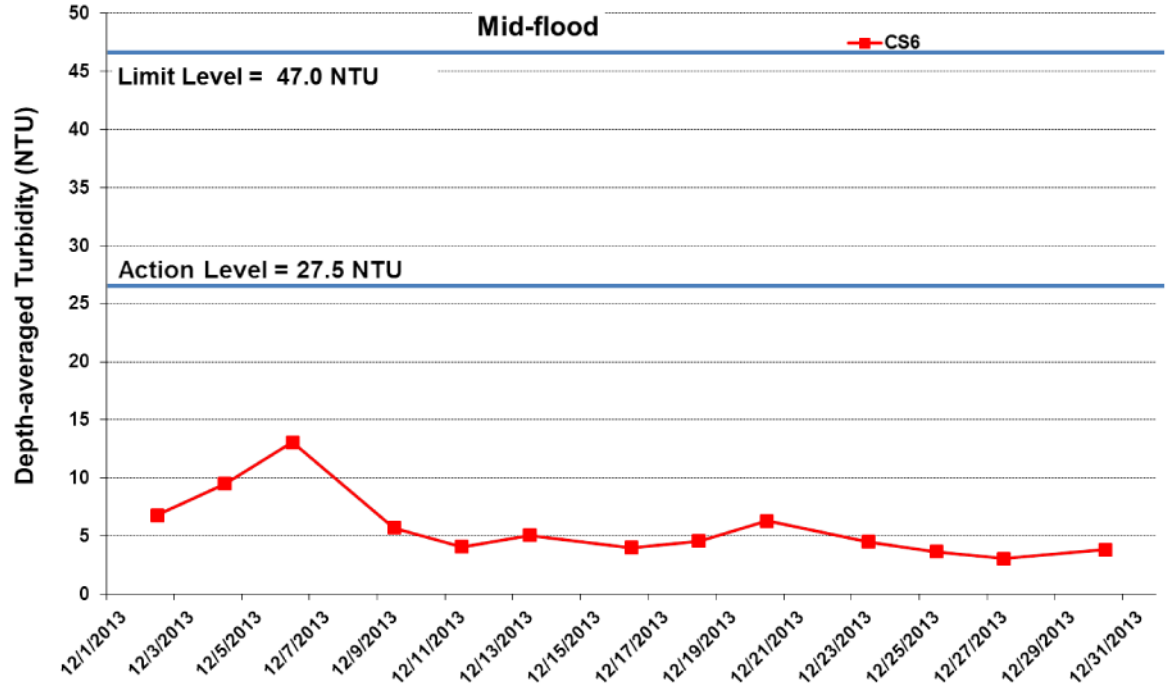


Figure I27 Impact Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 1 and 31 December 2013 at CS6.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

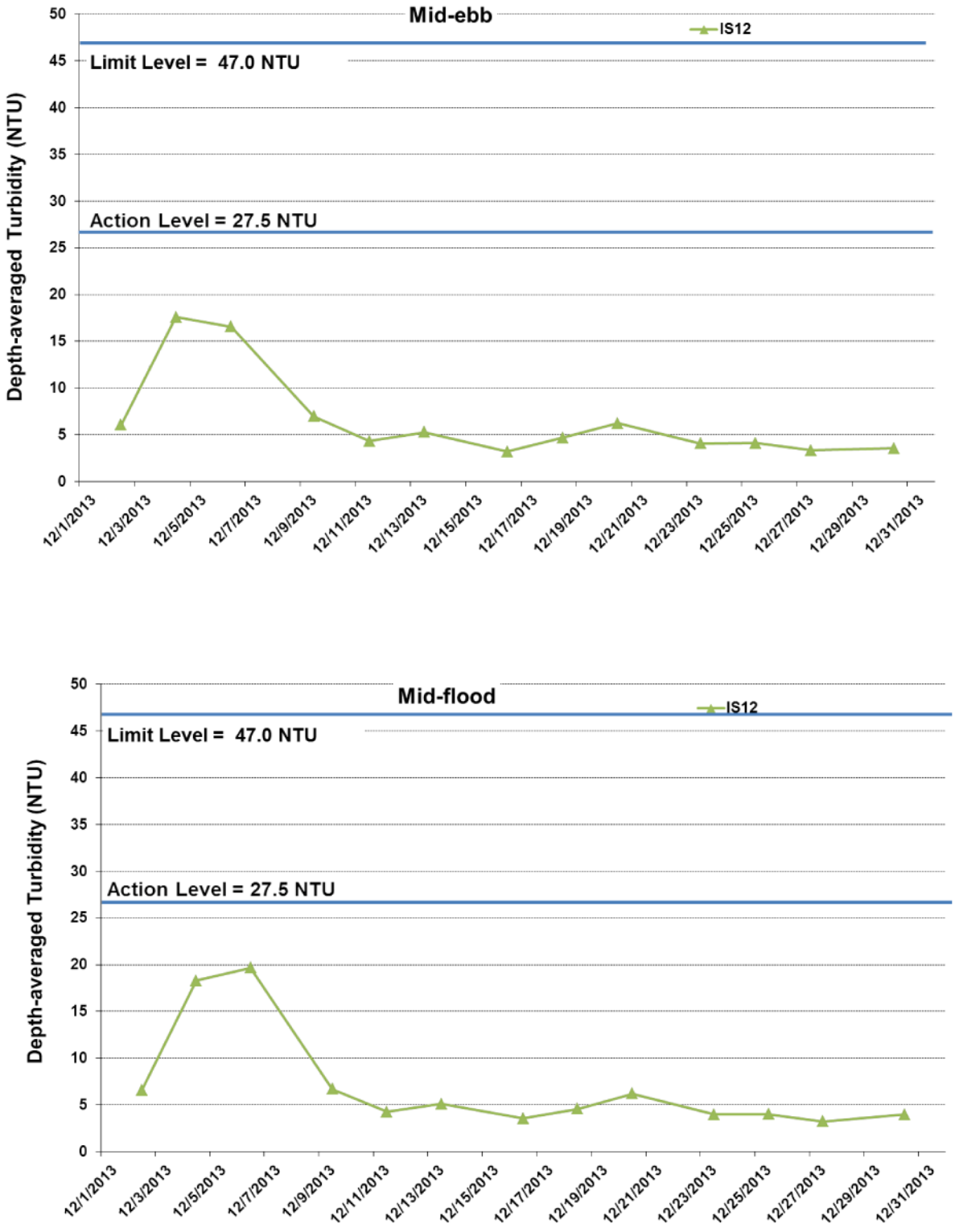
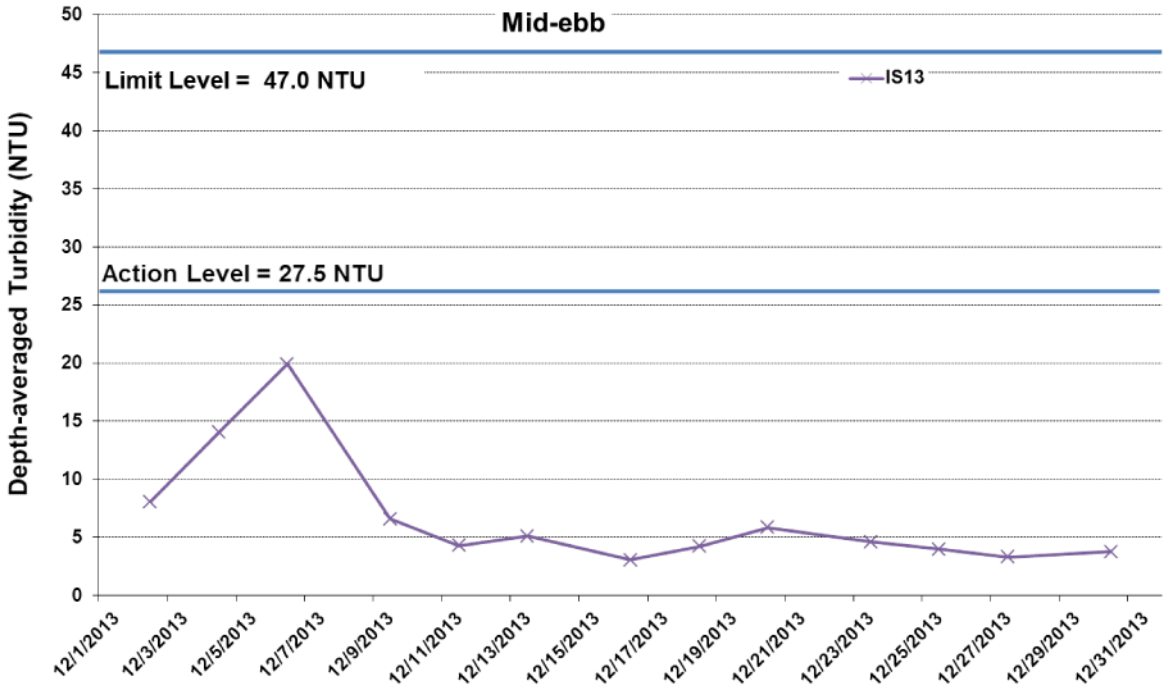


Figure I28 Impact Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 1 and 31 December 2013 at IS12.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls



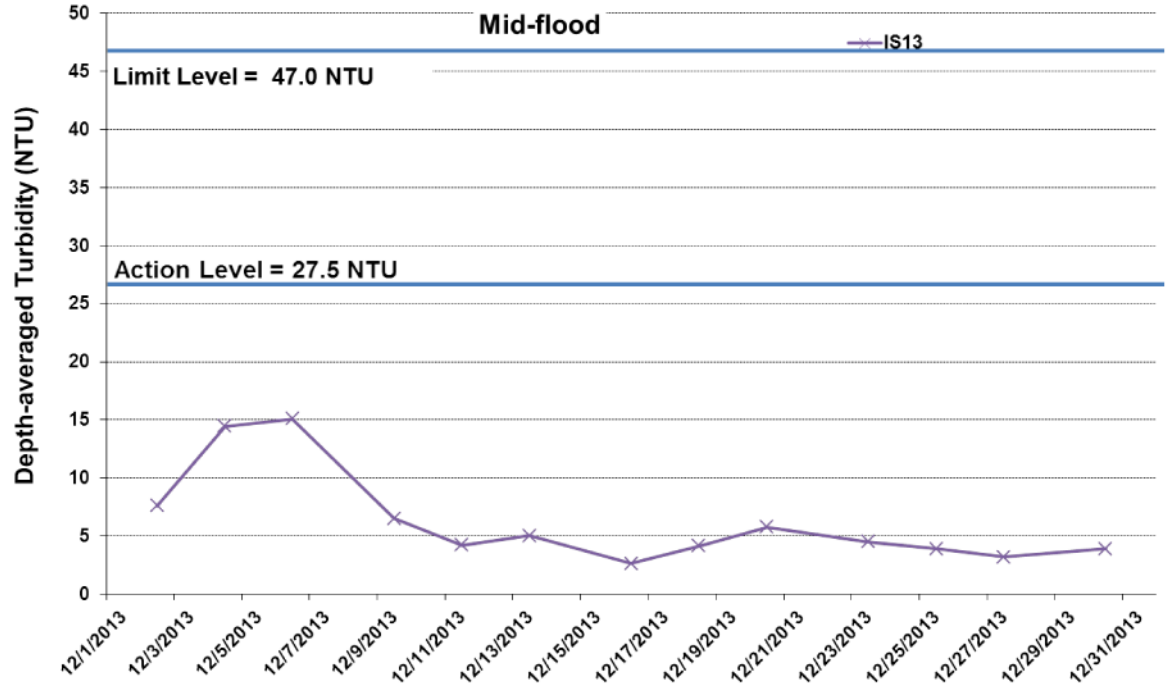
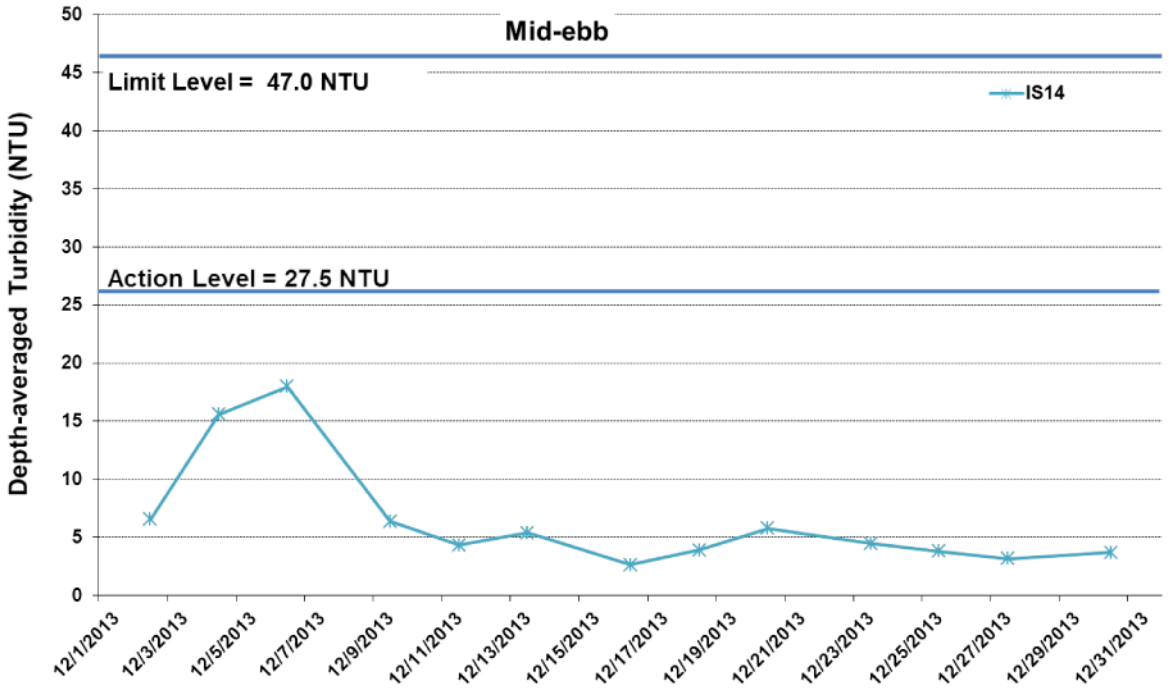


Figure I29 Impact Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 1 and 31 December 2013 at IS13.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls



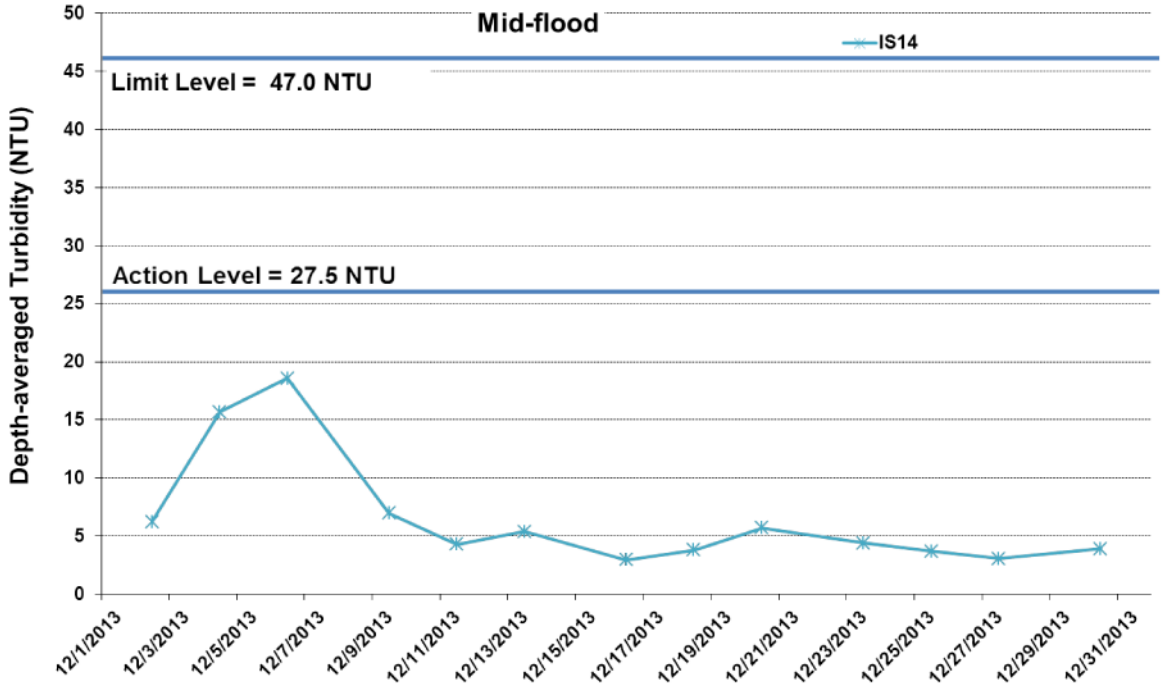
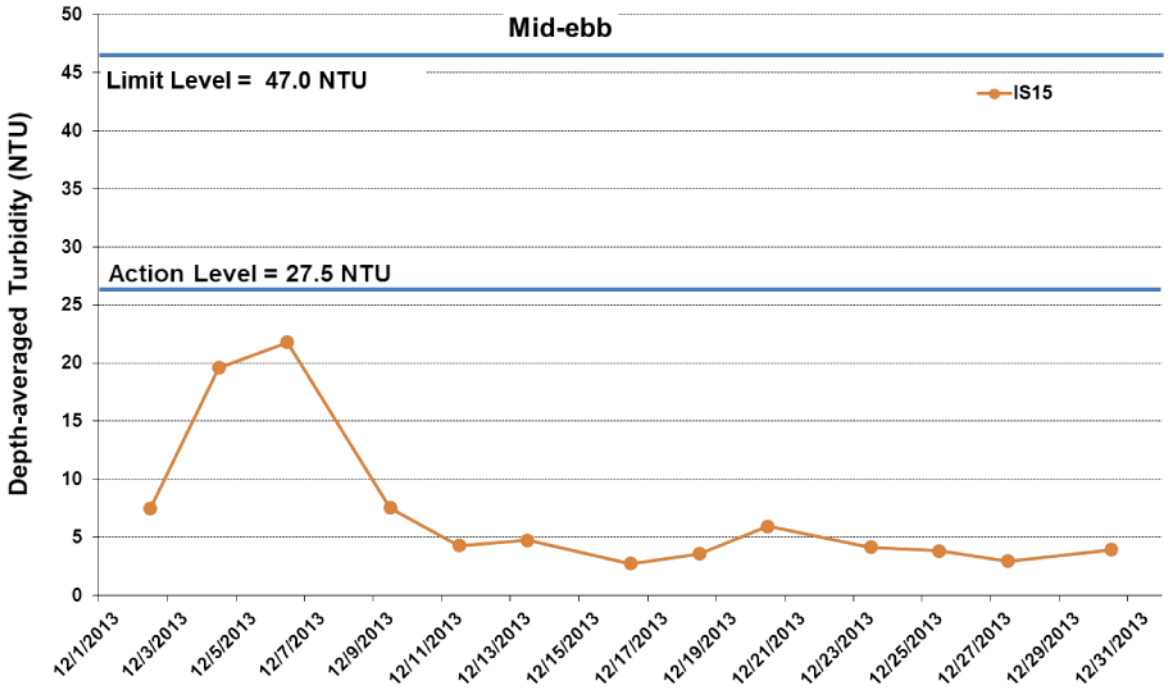


Figure I30 Impact Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 1 and 31 December 2013 at IS14.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls



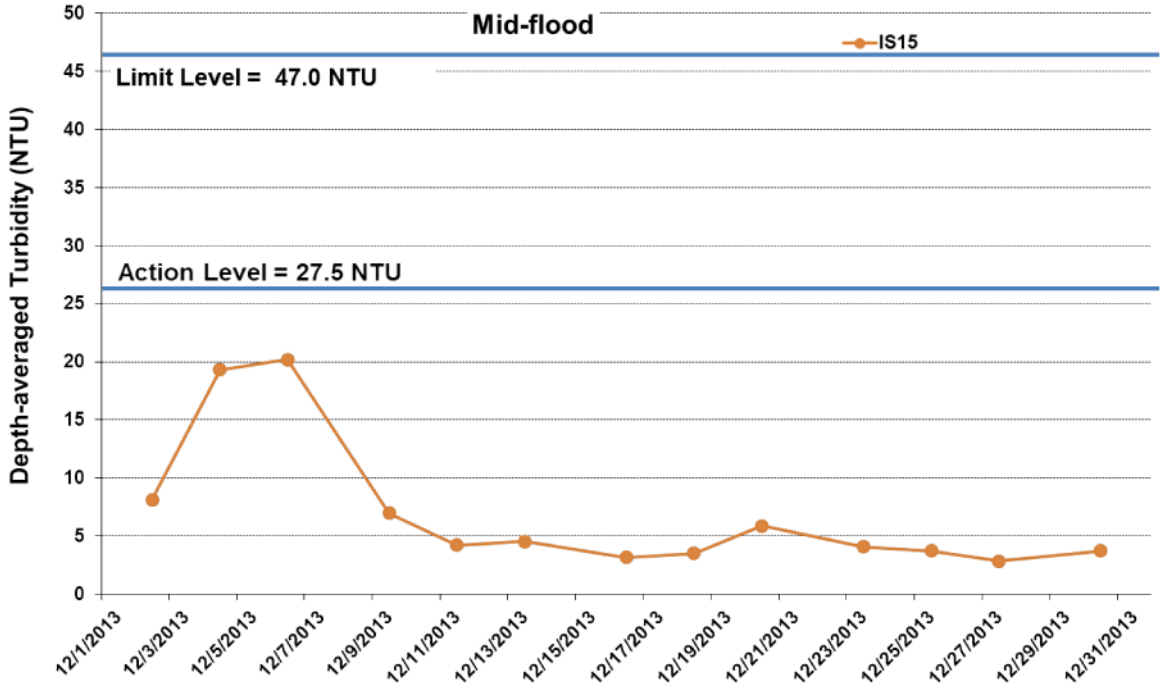


Figure I31 Impact Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 1 and 31 December 2013 at IS15.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

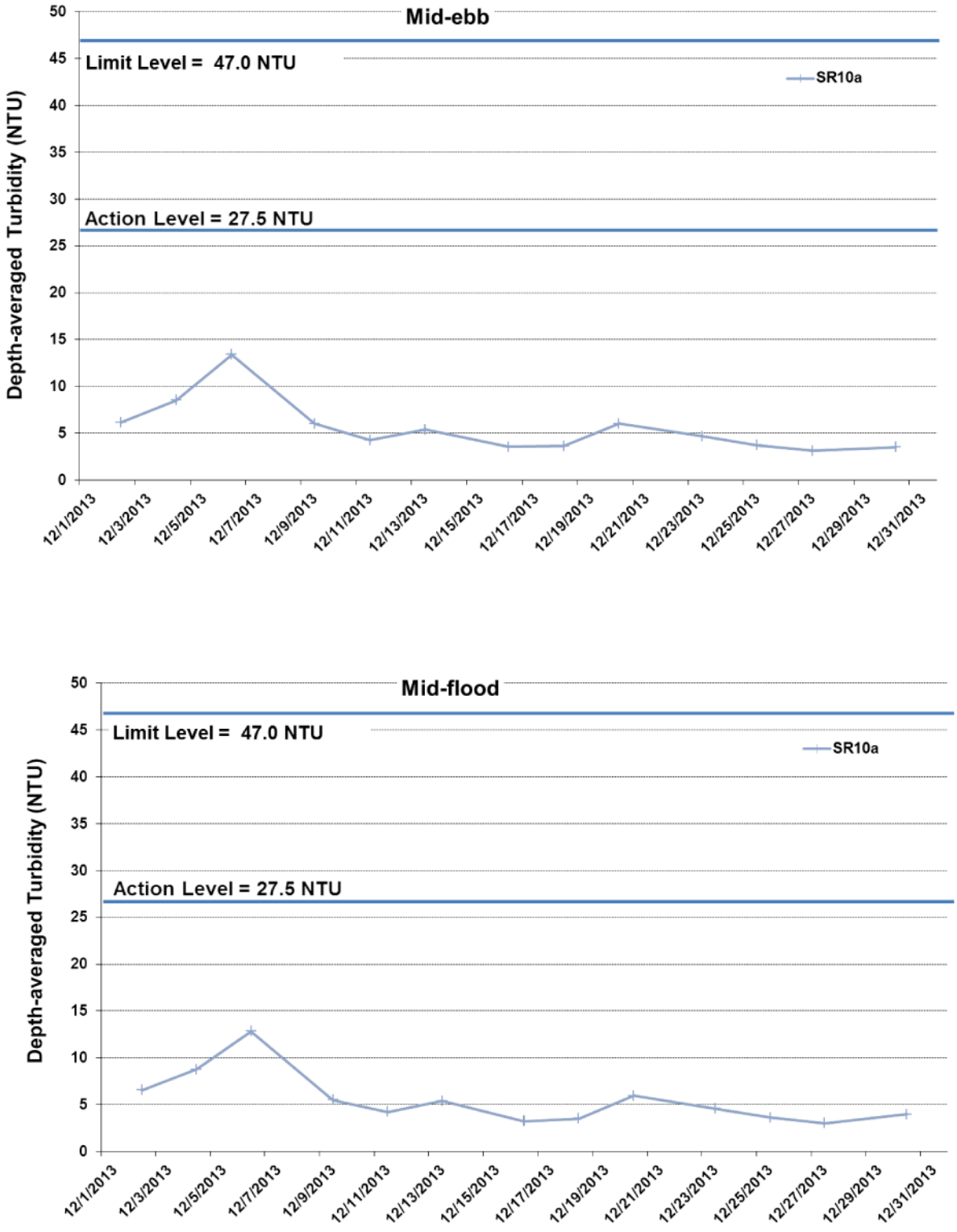


Figure I32 Impact Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 1 and 31 December 2013 at SR10a.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

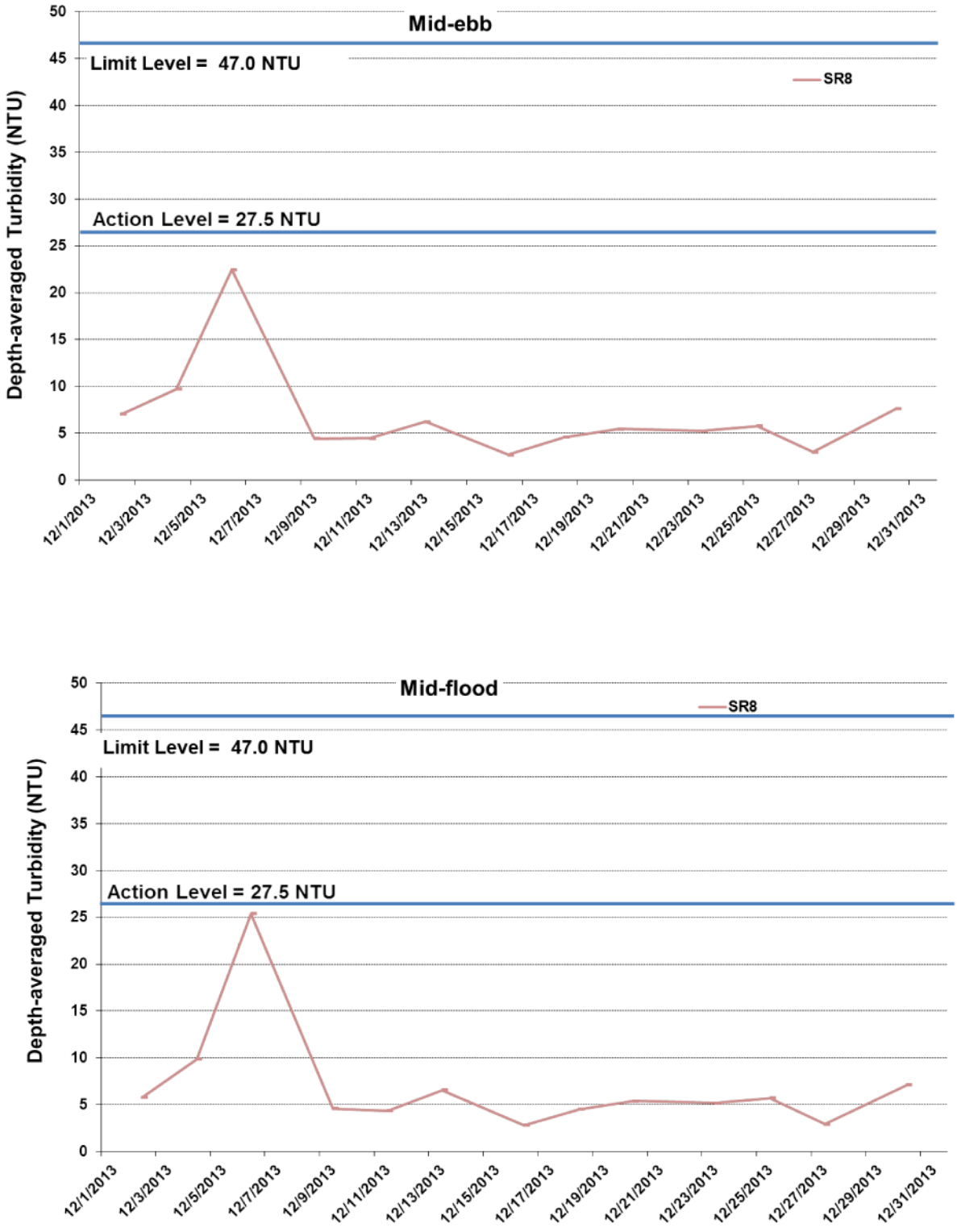


Figure I33 Impact Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 1 and 31 December 2013 at SR8.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

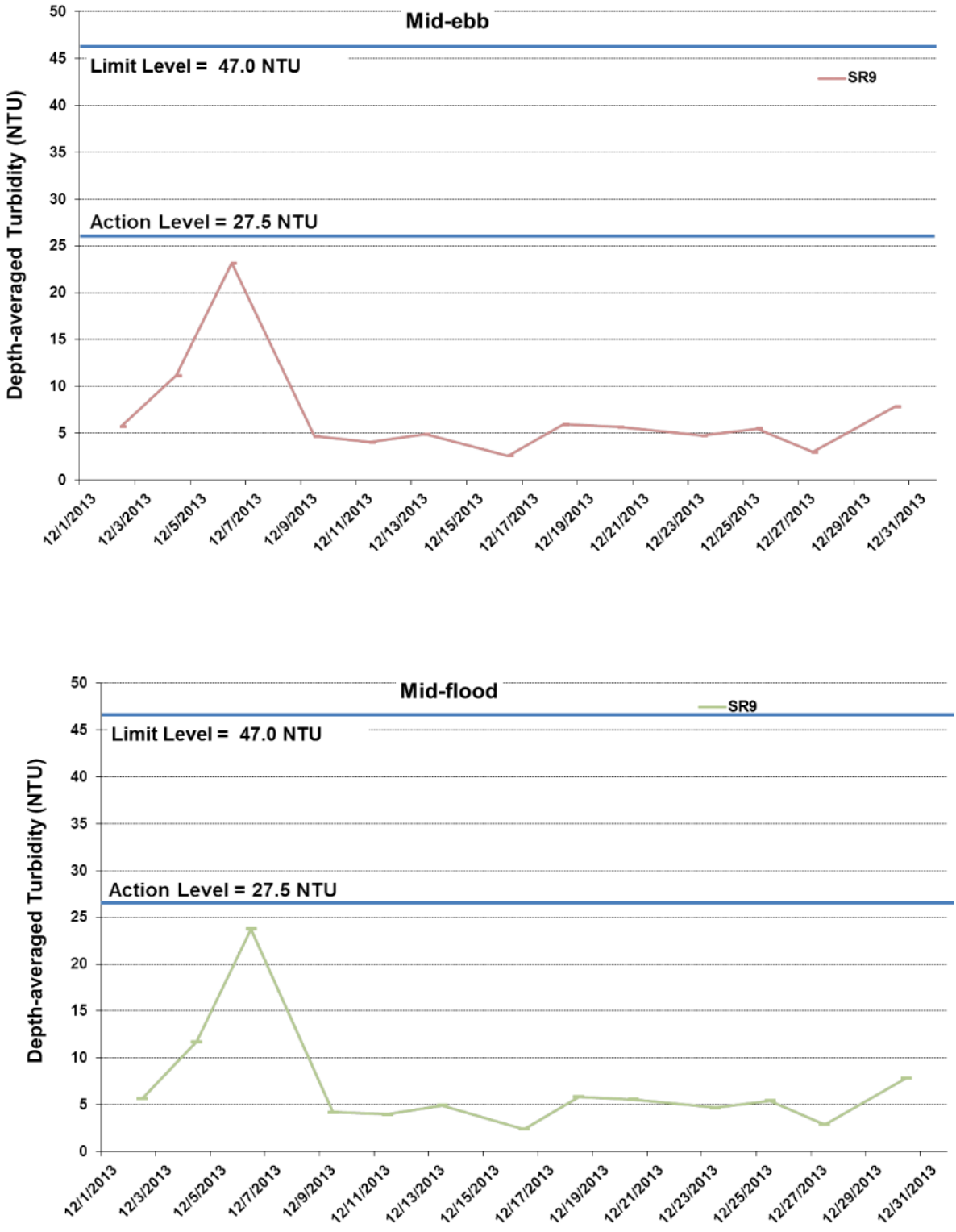


Figure I34 Impact Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 1 and 31 December 2013 at SR9.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

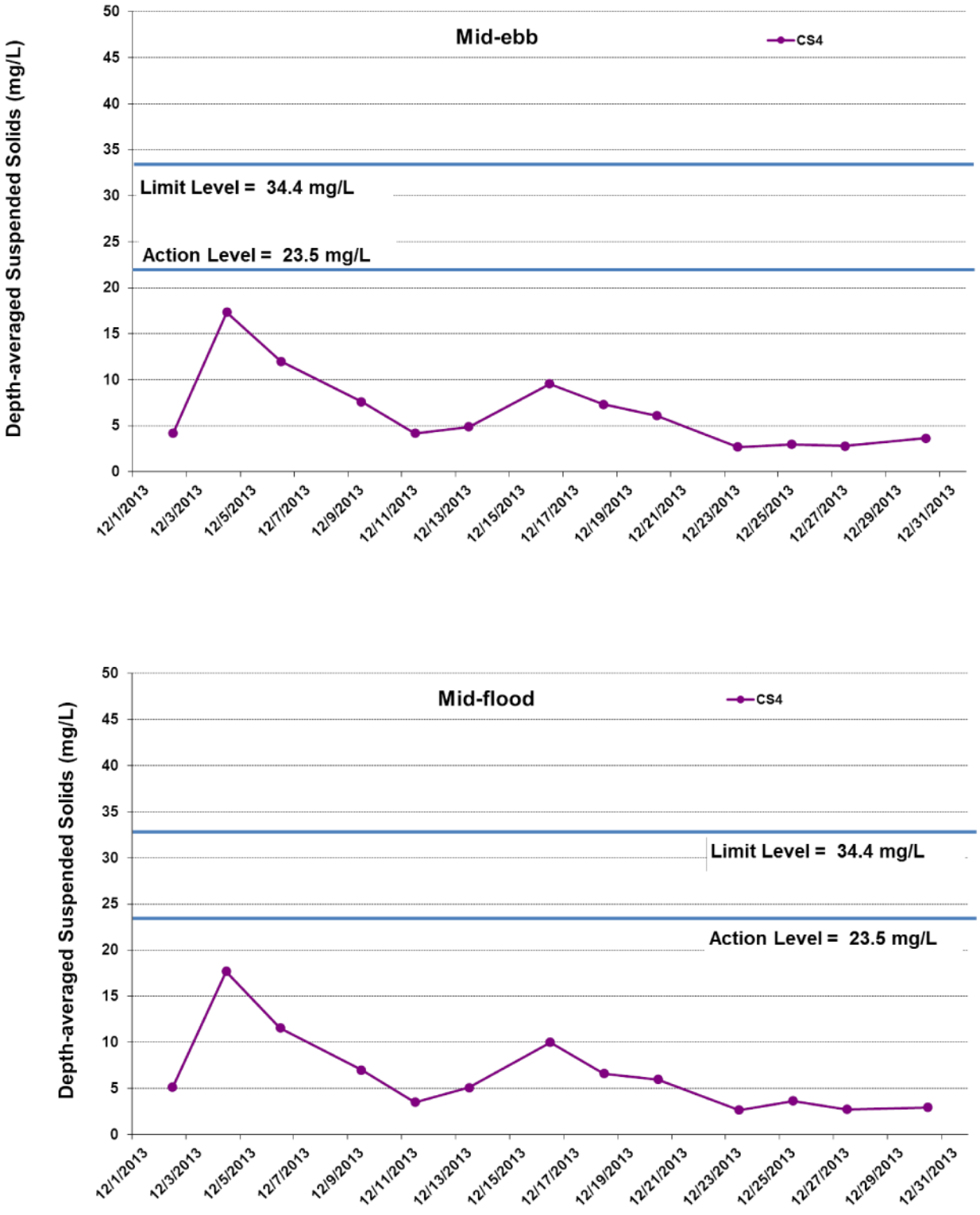


Figure I35 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 and 31 December 2013 at CS4.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

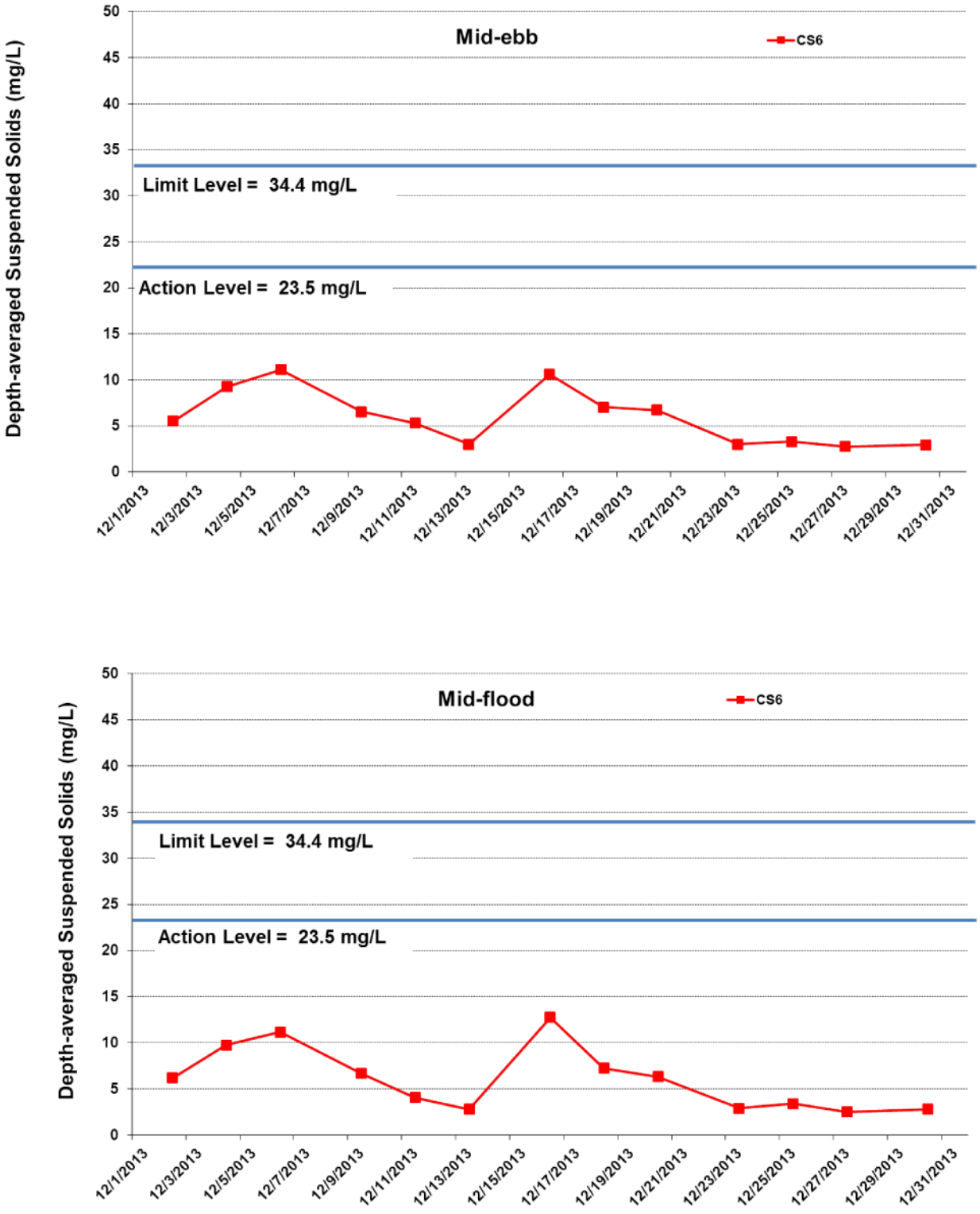


Figure I36 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 and 31 December 2013 at CS6.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

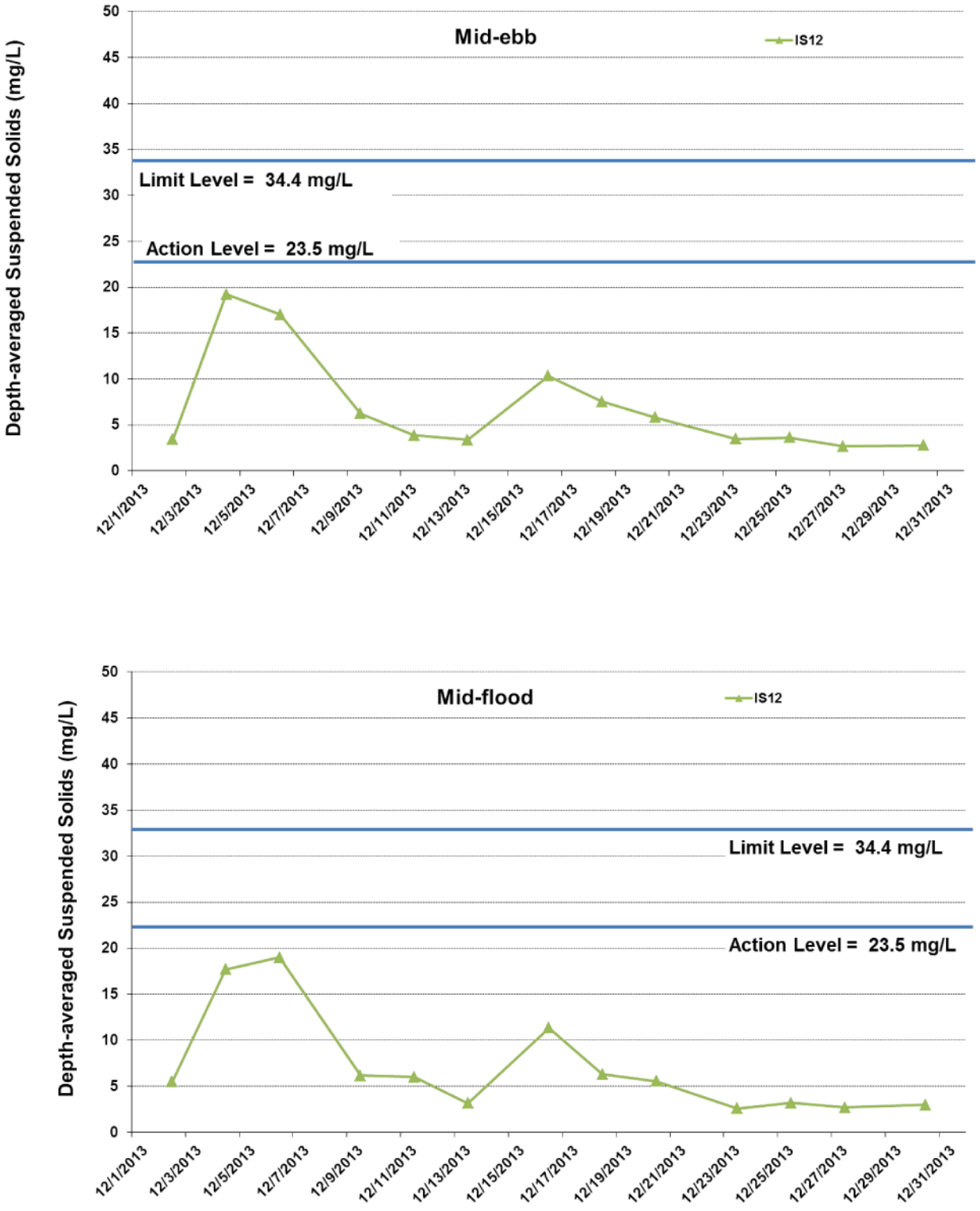


Figure I37 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 and 31 December 2013 at IS12.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

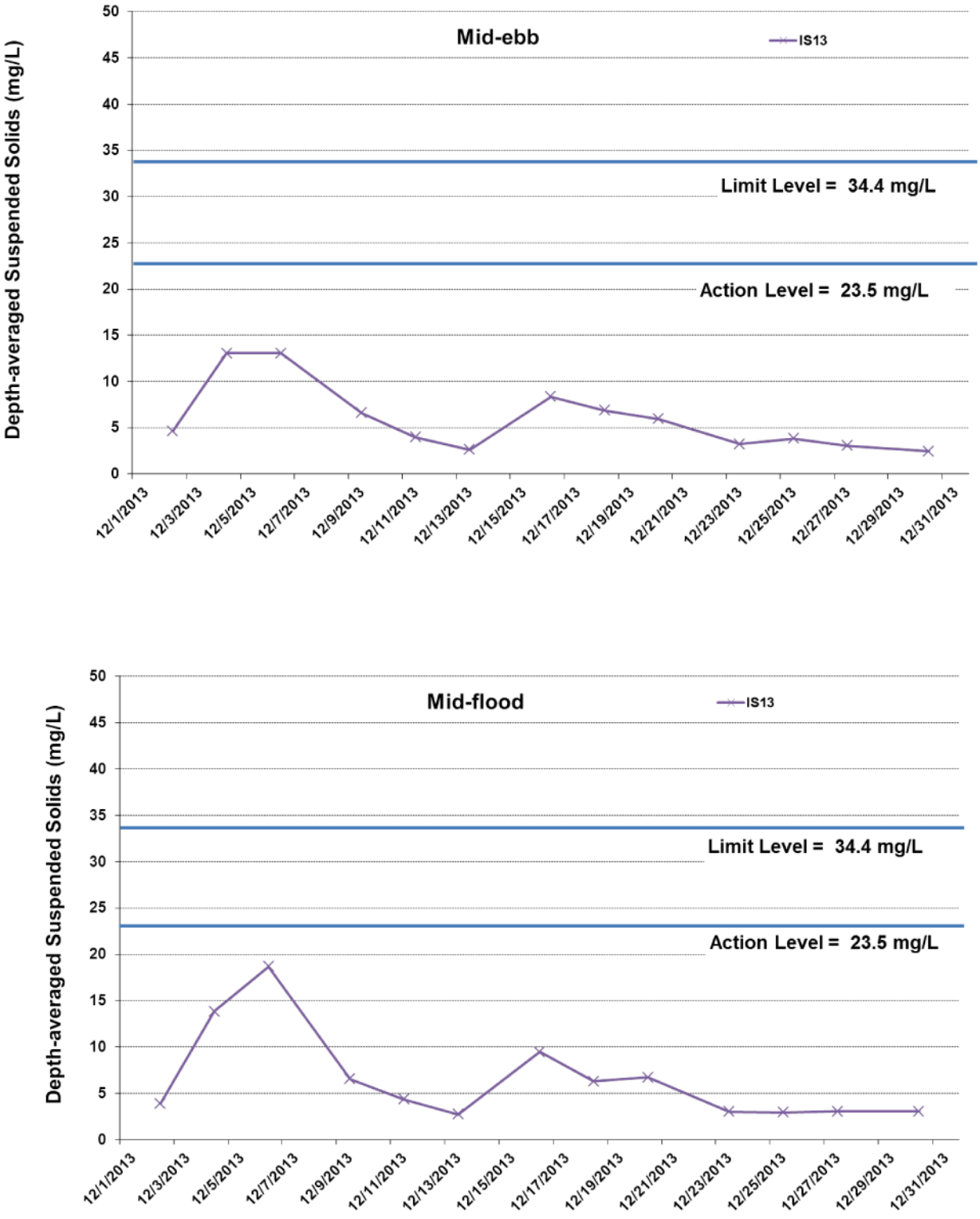


Figure I38 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 and 31 December 2013 at IS13.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

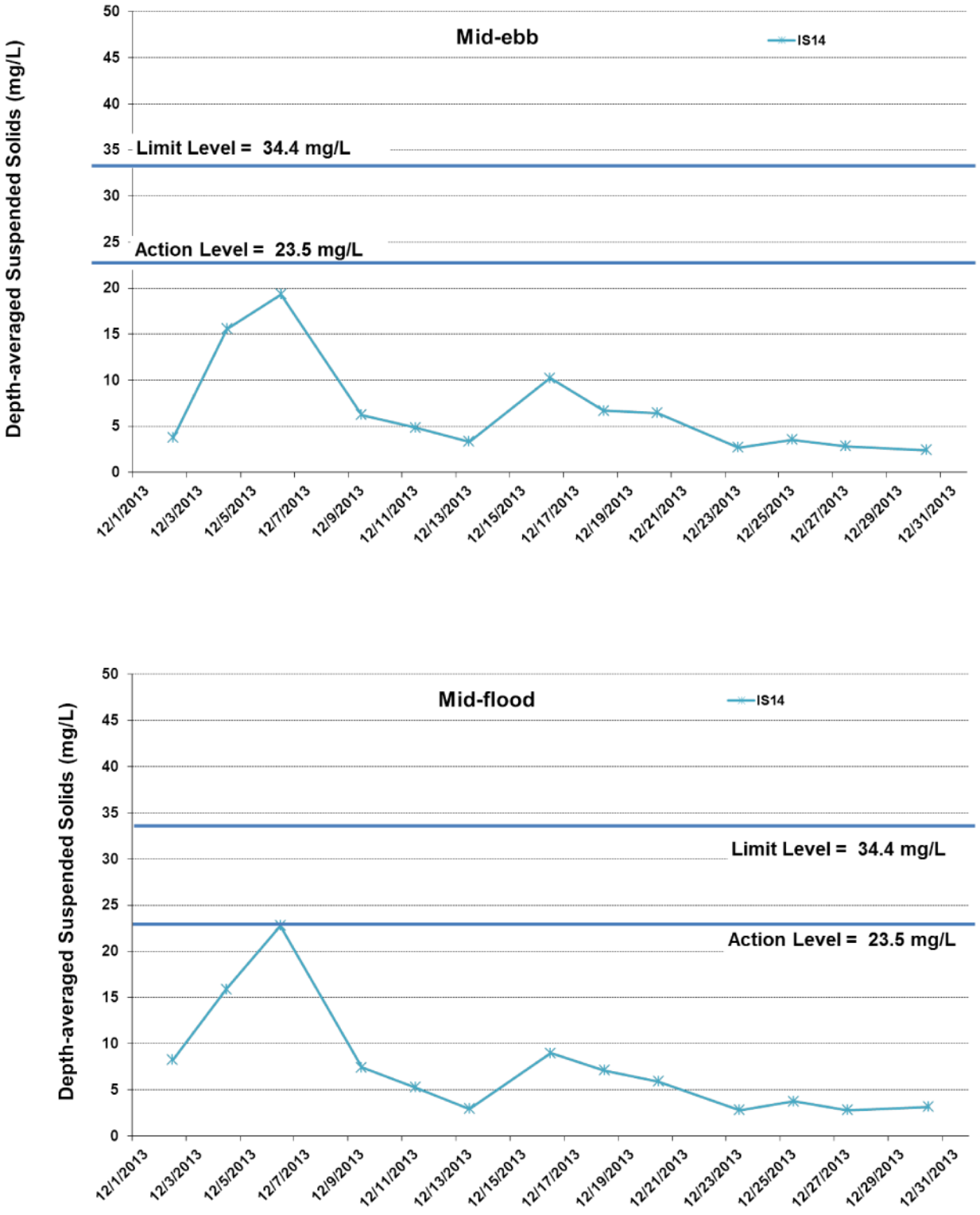


Figure I39 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 and 31 December 2013 at IS14.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

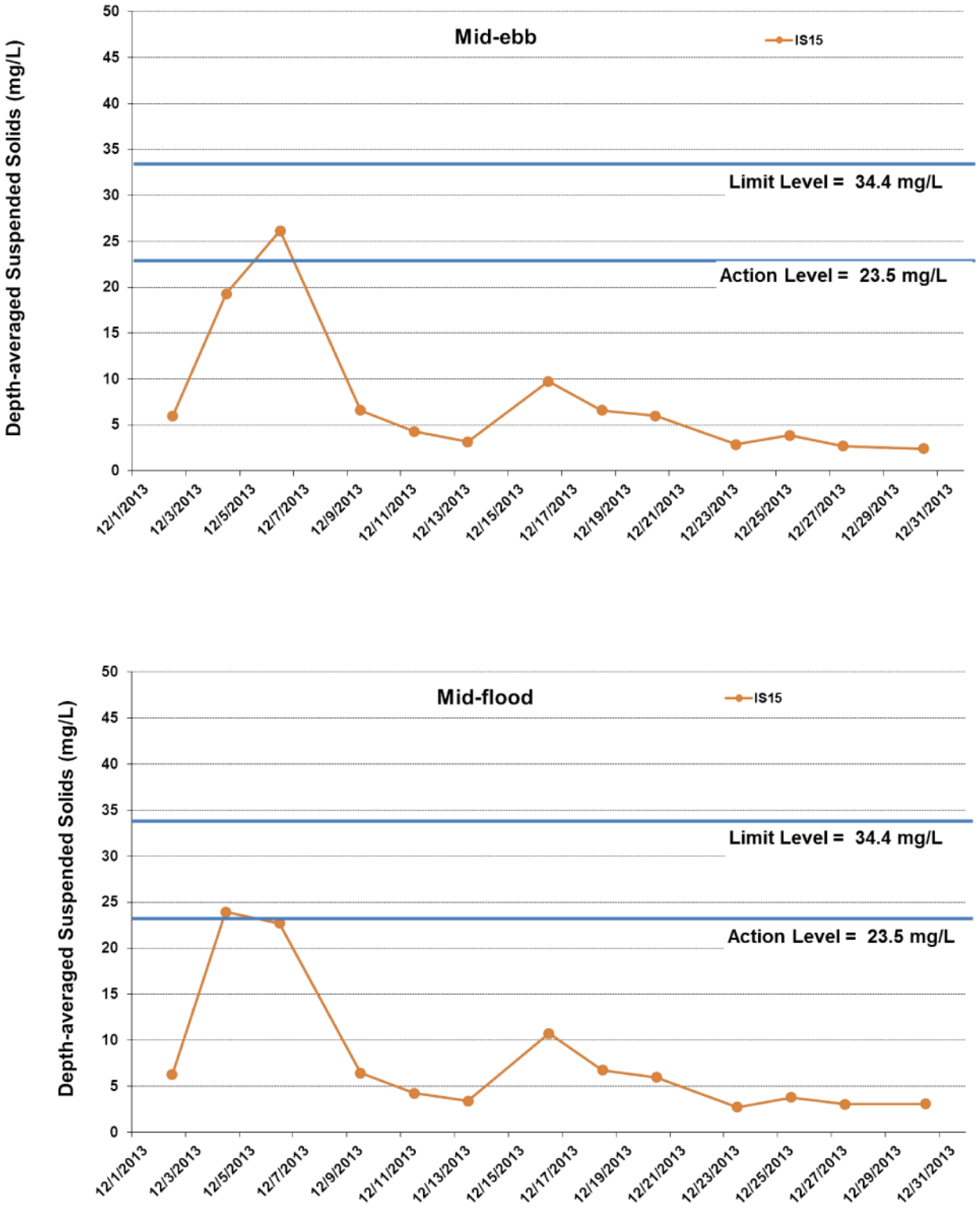


Figure I40 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 and 31 December 2013 at IS15.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

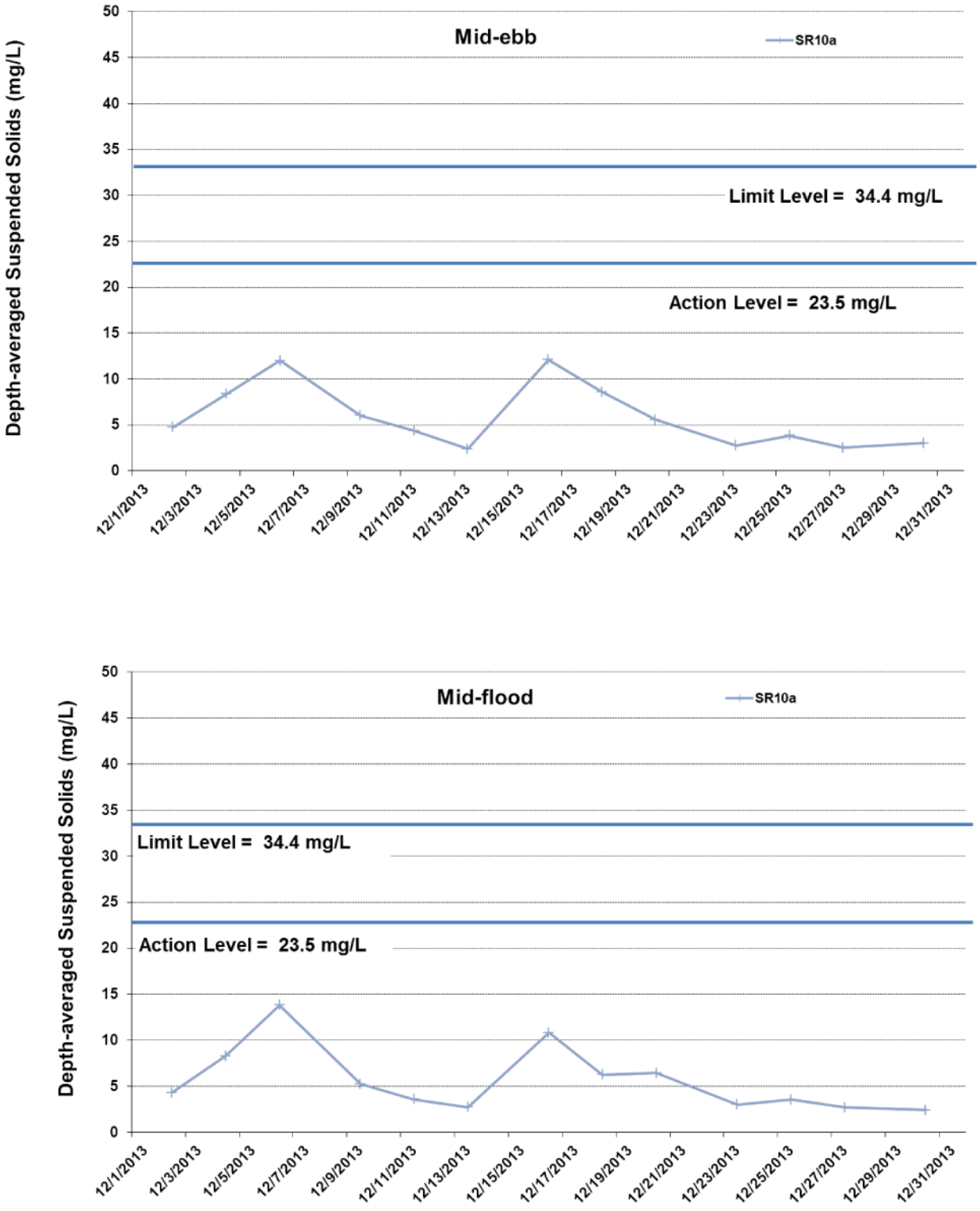


Figure I41 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 and 31 December 2013 at SR10a.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

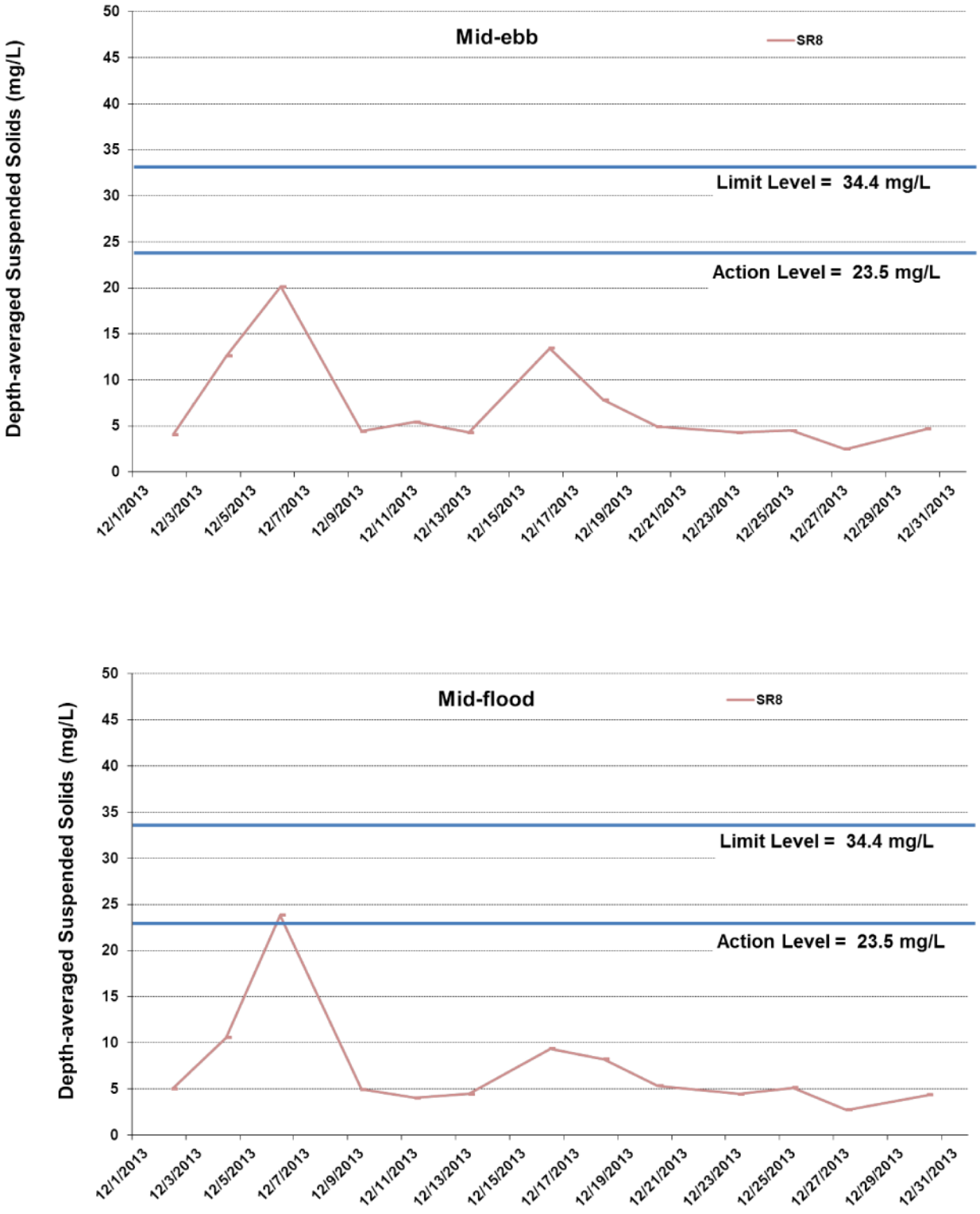


Figure I42 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 and 31 December 2013 at SR8.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

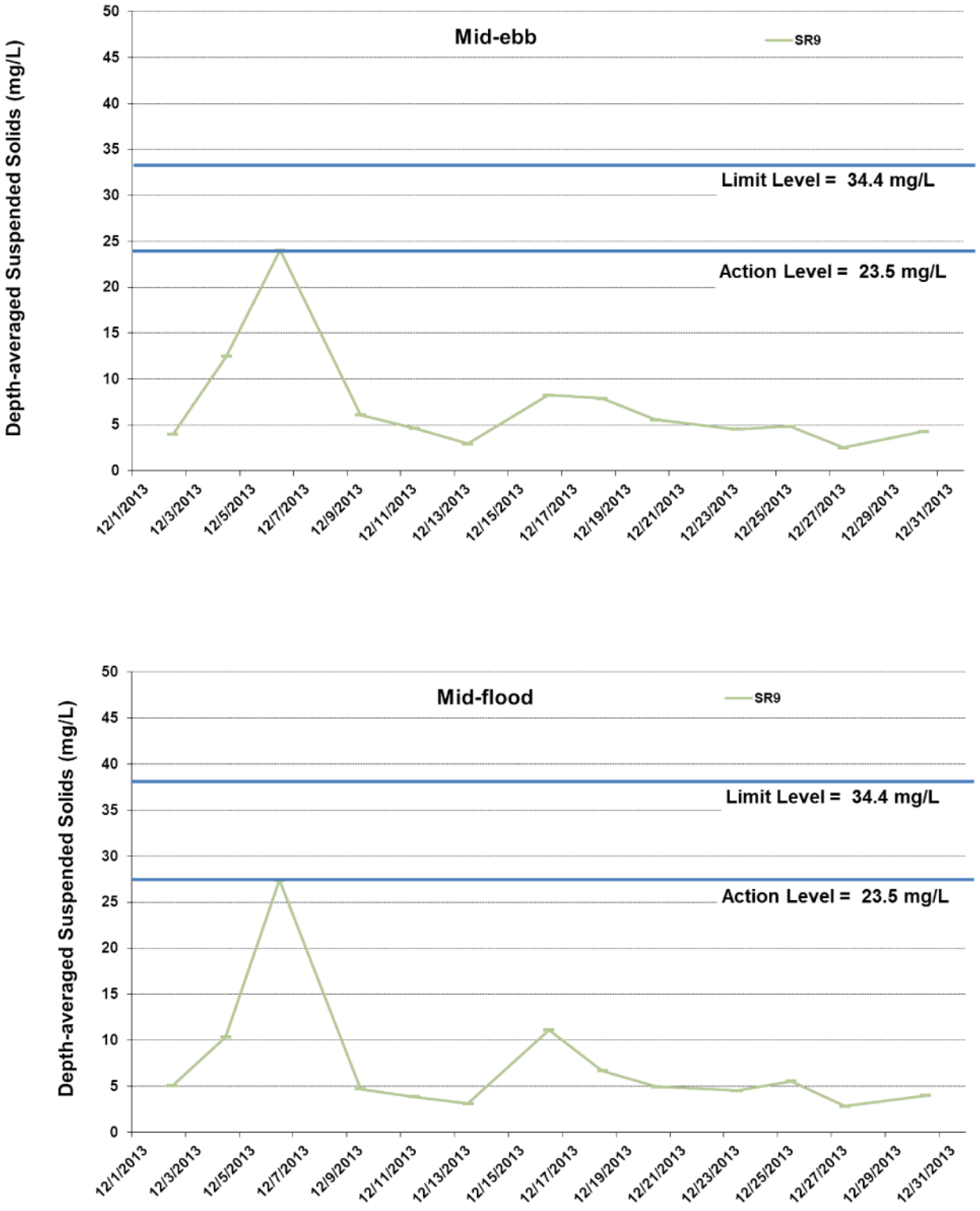


Figure I43 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 and 31 December 2013 at SR9.

Ref: 0212330_Impact-WQM_December2013_graphs_Rev a.xls

Project	Works	Date (yyyy-r	Tide	Weather	Sea Condition	Stat	Level	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	CS4	Surface	1	1	19:10	21.2	7.88	27	6.77	6.14	5.6
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	FIne	Small wave	CS4	Surface	1	2	19:10	21.2	7.87	27	6.75	6.17	4.5
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	CS4	Middle	2	1	19:10	21.2	7.89	27	6.64	6.44	6
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	CS4	Middle	2	2	19:10	21.2	7.89	27	6.6	6.4	4.3
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	FIne	Small wave	CS4	Bottom	3	1	19:10	21.1	7.88	27	6.68	6.2	6
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	CS4	Bottom	3	2	19:10	21.1	7.89	27	6.65	6.27	4.4
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	CS6	Surface	1	1	15:59	20.9	7.86	26.9	6.49	6.95	8.4
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	FIne	Small wave	CS6	Surface	1	2	15:59	20.9	7.86	26.9	6.46	6.99	6
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	CS6	Middle	2	1	15:59	20.7	7.87	26.9	6.58	6.12	4
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	CS6	Middle	2	2	15:59	20.7	7.87	26.9	6.54	6.19	5.9
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	FIne	Small wave	CS6	Bottom	3	1	15:59	20.7	7.87	26.9	6.61	7.29	6.5
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	CS6	Bottom	3	2	15:59	20.7	7.88	26.9	6.64	7.24	6.4
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	IS12	Surface	1	1	18:20	21.2	7.9	27	6.68	7.19	3.8
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	FIne	Small wave	IS12	Surface	1	2	18:20	21.2	7.9	27	6.65	7.12	5.5
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	IS12	Middle	2	1	18:20	21.2	7.88	27	6.61	5.99	6.1
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	IS12	Middle	2	2	18:20	21.2	7.89	27	6.57	5.95	5.9
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	FIne	Small wave	IS12	Bottom	3	1	18:20	21.1	7.9	27	6.57	6.54	5.8
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	IS12	Bottom	3	2	18:20	21.1	7.9	27	6.59	6.49	5.9
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	IS13	Surface	1	1	18:00	21.2	7.88	27	6.74	7.53	3.4
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	FIne	Small wave	IS13	Surface	1	2	18:00	21.1	7.88	27	6.76	7.57	3.3
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	IS13	Middle	2	1	18:00	21.2	7.9	27	6.67	7.93	4.6
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	IS13	Middle	2	2	18:00	21.2	7.89	27	6.64	7.99	4.3
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	FIne	Small wave	IS13	Bottom	3	1	18:00	21.1	7.9	27	6.62	7.28	4
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	IS13	Bottom	3	2	18:00	21.1	7.9	27	6.66	7.33	3.7
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	IS14	Surface	1	1	18:40	21.1	7.9	27	6.78	6.71	7.6
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	FIne	Small wave	IS14	Surface	1	2	18:40	21.1	7.89	27	6.74	6.68	5.7
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	IS14	Middle	2	1	18:40	21.1	7.87	27	6.7	6.28	7.4
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	IS14	Middle	2	2	18:40	21.2	7.88	27	6.68	6.35	6.2
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	FIne	Small wave	IS14	Bottom	3	1	18:40	21.1	7.89	27	6.72	5.72	11.3
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	IS14	Bottom	3	2	18:40	21.1	7.9	27	6.75	5.67	11.2
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	IS15	Surface	1	1	17:40	21.2	7.87	27	6.68	7.2	8.1

TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	FIne	Small wave	IS15	Surface	1	2	17:40	21.2	7.88	27	6.64	7.25	6.5
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	IS15	Middle	2	1	17:40	21.1	7.89	27	6.63	10.3	5.3
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	IS15	Middle	2	2	17:40	21.1	7.89	27	6.66	10.3	5.6
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	FIne	Small wave	IS15	Bottom	3	1	17:40	21.1	7.9	27	6.65	6.85	5.9
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	IS15	Bottom	3	2	17:40	21.1	7.9	27	6.62	6.88	6.2
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	SR8	Surface	1	1	17:05	21.2	7.88	27	6.53	5.98	5.4
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	FIne	Small wave	SR8	Surface	1	2	17:05	21.2	7.88	27	6.56	5.97	6.2
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	SR8	Middle	2	1	17:05						
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	SR8	Middle	2	2	17:05						
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	FIne	Small wave	SR8	Bottom	3	1	17:05	21.3	7.89	27	6.65	5.58	4.5
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	SR8	Bottom	3	2	17:05	21.3	7.88	27	6.61	5.52	4
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	SR9	Surface	1	1	17:25	21.2	7.88	27	6.7	5.59	3.6
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	FIne	Small wave	SR9	Surface	1	2	17:25	21.1	7.88	27	6.74	5.64	3.8
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	SR9	Middle	2	1	17:25						
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	SR9	Middle	2	2	17:25						
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	FIne	Small wave	SR9	Bottom	3	1	17:25	21.1	7.89	27	6.76	5.65	6.1
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	SR9	Bottom	3	2	17:25	21.1	7.88	27	6.73	5.67	6.7
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	SR10a	Surface	1	1	16:35	21.1	7.88	27	6.55	6.71	3.4
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	FIne	Small wave	SR10a	Surface	1	2	16:35	21.1	7.89	27	6.58	6.74	4.2
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	SR10a	Middle	2	1	16:35	21.1	7.89	27	6.53	6.38	4.6
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	SR10a	Middle	2	2	16:35	21	7.89	27	6.5	6.34	3.8
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	FIne	Small wave	SR10a	Bottom	3	1	16:35	21.1	7.89	27	6.56	6.52	4.1
TMCLKL	HY/2012/08	2013-12-02	Mid-Flood	Fine	Small wave	SR10a	Bottom	3	2	16:35	21.1	7.9	27	6.53	6.57	5.8
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	CS4	Surface	1	1	10:35	21.1	7.89	27	6.77	6.26	3.2
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	FIne	Small wave	CS4	Surface	1	2	10:35	21.1	7.89	27	6.79	6.29	4.1
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	CS4	Middle	2	1	10:35	21	7.89	27	6.68	6.79	3.6
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	CS4	Middle	2	2	10:35	21	7.9	27	6.64	6.75	5.3
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	FIne	Small wave	CS4	Bottom	3	1	10:35	21	7.9	27	6.7	6.07	4.1
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	CS4	Bottom	3	2	10:35	21	7.9	27	6.74	6.14	5
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	CS6	Surface	1	1	13:05	20.8	7.9	26.9	6.63	6.65	4.8
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	FIne	Small wave	CS6	Surface	1	2	13:05	20.8	7.9	26.9	6.67	6.61	5.2
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	CS6	Middle	2	1	13:05	20.8	7.89	26.9	6.64	9.39	4
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	CS6	Middle	2	2	13:05	20.8	7.9	26.9	6.67	9.34	5
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	FIne	Small wave	CS6	Bottom	3	1	13:05	20.7	7.9	26.9	6.59	4.93	8.3
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	CS6	Bottom	3	2	13:05	20.7	7.9	26.9	6.57	4.9	5.8

TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	IS12	Surface	1	1	11:25	21	7.89	27	6.7	6.02	3.5
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	FIne	Small wave	IS12	Surface	1	2	11:25	21	7.89	27	6.74	6.08	2.7
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	IS12	Middle	2	1	11:25	20.9	7.87	27	6.6	5.91	3.6
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	IS12	Middle	2	2	11:25	20.9	7.88	27	6.57	5.97	3.1
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	FIne	Small wave	IS12	Bottom	3	1	11:25	20.9	7.89	27	6.73	6.12	3.9
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	IS12	Bottom	3	2	11:25	20.9	7.89	27	6.7	6.17	3.7
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	IS13	Surface	1	1	11:45	21	7.88	27	6.72	8.82	4
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	FIne	Small wave	IS13	Surface	1	2	11:45	21	7.87	27	6.75	8.77	3.2
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	IS13	Middle	2	1	11:45	21	7.89	27	6.7	8.95	3.7
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	IS13	Middle	2	2	11:45	21	7.9	27	6.74	8.98	3.1
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	FIne	Small wave	IS13	Bottom	3	1	11:45	21	7.9	27	6.62	6.36	7.6
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	IS13	Bottom	3	2	11:45	21.1	7.9	27	6.59	6.39	6.2
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	IS14	Surface	1	1	11:05	21	7.86	27	6.72	6.01	4
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	FIne	Small wave	IS14	Surface	1	2	11:05	21	7.85	27	6.75	6.07	3
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	IS14	Middle	2	1	11:05	20.9	7.88	27	6.64	6.8	4.6
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	IS14	Middle	2	2	11:05	20.9	7.89	27	6.67	6.86	4.9
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	FIne	Small wave	IS14	Bottom	3	1	11:05	20.9	7.89	27	6.66	6.82	3.3
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	IS14	Bottom	3	2	11:05	20.9	7.89	27	6.64	6.76	3
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	IS15	Surface	1	1	12:05	21	7.89	27	6.71	6.22	6.4
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	FIne	Small wave	IS15	Surface	1	2	12:05	21	7.89	27	6.74	6.25	4.6
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	IS15	Middle	2	1	12:05	21	7.9	27	6.57	9.41	6.8
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	IS15	Middle	2	2	12:05	21	7.89	27	6.59	9.47	5.1
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	FIne	Small wave	IS15	Bottom	3	1	12:05	21	7.89	27	6.59	6.76	5.8
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	IS15	Bottom	3	2	12:05	21.1	7.9	27	6.56	6.79	7.3
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	SR8	Surface	1	1	12:45	21	7.88	27	6.55	7.75	5
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	FIne	Small wave	SR8	Surface	1	2	12:45	21	7.88	27	6.58	7.79	3.9
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	SR8	Middle	2	1	12:45						
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	SR8	Middle	2	2	12:45						
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	FIne	Small wave	SR8	Bottom	3	1	12:45	21.1	7.88	27	6.61	6.28	3.4
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	SR8	Bottom	3	2	12:45	21.1	7.89	27	6.58	6.33	4
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	SR9	Surface	1	1	12:25	21	7.87	26.9	6.63	5.77	4.1
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	FIne	Small wave	SR9	Surface	1	2	12:25	21	7.88	26.9	6.66	5.7	3.8
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	SR9	Middle	2	1	12:25						
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	SR9	Middle	2	2	12:25						
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	FIne	Small wave	SR9	Bottom	3	1	12:25	21.1	7.88	27	6.8	5.72	3.9
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	SR9	Bottom	3	2	12:25	21.1	7.89	27	6.84	5.79	4.1
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	SR10a	Surface	1	1	13:40	20.9	7.87	27	6.63	6.2	3.1
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	FIne	Small wave	SR10a	Surface	1	2	13:40	20.9	7.88	27	6.6	6.24	3.9
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	SR10a	Middle	2	1	13:40	21	7.89	27	6.56	5.96	4.9
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	SR10a	Middle	2	2	13:40	21	7.89	27	6.52	5.99	3.1
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	FIne	Small wave	SR10a	Bottom	3	1	13:40	21	7.9	27	6.45	6.35	7.1
TMCLKL	HY/2012/08	2013-12-02	Mid-Ebb	Fine	Small wave	SR10a	Bottom	3	2	13:40	21	7.9	27	6.48	6.3	6.5
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	FIne	Small wave	CS4	Surface	1	1	20:30	21.3	7.89	27	6.65	14.4	13.9
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	CS4	Surface	1	2	20:30	21.2	7.9	27	6.62	15.7	13.9
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	CS4	Middle	2	1	20:30	21.1	7.84	27.1	6.68	17.3	16.4
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	FIne	Small wave	CS4	Middle	2	2	20:30	21	7.87	27.1	6.7	19.2	15.5
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	CS4	Bottom	3	1	20:30	21	7.9	27.2	6.5	20.7	24.2

TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	FIne	Small wave	CS4	Bottom	3	2	20:30	20.9	7.91	27.3	6.46	21.9	22.2
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	CS6	Surface	1	1	17:56	21.3	7.78	27	6.68	9.43	8.6
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	CS6	Surface	1	2	17:56	21.2	7.79	26.9	6.72	10	8.8
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	FIne	Small wave	CS6	Middle	2	1	17:56	21.2	7.79	27	6.76	9.52	9.6
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	CS6	Middle	2	2	17:56	21.1	7.8	27	6.74	9.8	10.2
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	FIne	Small wave	CS6	Bottom	3	1	17:56	21.1	7.76	27.1	6.61	8.64	10.4
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	CS6	Bottom	3	2	17:56	21	7.77	27.1	6.58	9.59	11
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	IS12	Surface	1	1	19:42	21.2	7.78	27	6.64	19.3	17.3
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	FIne	Small wave	IS12	Surface	1	2	19:42	21.3	7.8	27	6.67	18.2	17.8
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	IS12	Middle	2	1	19:42	21.2	7.83	27.1	6.55	16.8	17.4
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	FIne	Small wave	IS12	Middle	2	2	19:42	21.1	7.84	27.1	6.52	17.9	16.1
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	IS12	Bottom	3	1	19:42	21.1	7.9	27.1	6.59	19.1	18.8
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	IS12	Bottom	3	2	19:42	21	7.92	27.2	6.61	18.4	18.8
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	FIne	Small wave	IS13	Surface	1	1	19:21	21.2	7.81	27	6.63	15.1	13.3
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	IS13	Surface	1	2	19:21	21.1	7.82	26.9	6.61	14.4	12.7
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	FIne	Small wave	IS13	Middle	2	1	19:21	21.1	7.87	27	6.69	13.2	13.9
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	IS13	Middle	2	2	19:21	21.1	7.87	27	6.65	14	13.9
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	IS13	Bottom	3	1	19:21	21.1	7.89	27	6.52	15.4	14.9
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	FIne	Small wave	IS13	Bottom	3	2	19:21	21.1	7.9	27.1	6.49	14.6	14.4
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	IS14	Surface	1	1	20:04	21.2	7.8	27	6.81	13.7	12.9
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	FIne	Small wave	IS14	Surface	1	2	20:04	21.2	7.82	27.1	6.78	14.1	13.3
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	IS14	Middle	2	1	20:04	21.1	7.84	27.1	6.69	15.9	15.2
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	IS14	Middle	2	2	20:04	21	7.85	27.2	6.73	13.8	15.5
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	FIne	Small wave	IS14	Bottom	3	1	20:04	21	7.88	27.2	6.53	17.6	19.4
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	IS14	Bottom	3	2	20:04	20.9	7.87	27.2	6.49	18.9	19
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	FIne	Small wave	IS15	Surface	1	1	19:00	21.2	7.8	27	6.78	19.8	24
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	IS15	Surface	1	2	19:00	21.2	7.83	27	6.75	18.3	23
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	IS15	Middle	2	1	19:00	21.2	7.87	27	6.7	20.4	23.8
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	FIne	Small wave	IS15	Middle	2	2	19:00	21.2	7.88	27.1	6.67	21.7	23.3
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	IS15	Bottom	3	1	19:00	21.1	7.86	27.1	6.57	17.3	24
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	FIne	Small wave	IS15	Bottom	3	2	19:00	21.1	7.87	271	6.53	18.5	25.5
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	SR8	Surface	1	1	18:20	21.3	7.74	26.9	6.78	9.79	9.8
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	SR8	Surface	1	2	18:20	21.2	7.75	27	6.76	9.57	9.8
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	FIne	Small wave	SR8	Middle	2	1	18:20						
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	SR8	Middle	2	2	18:20						
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	FIne	Small wave	SR8	Bottom	3	1	18:20	21.2	7.77	27.1	6.68	10.1	10.8
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	SR8	Bottom	3	2	18:20	21.2	7.79	27.1	6.7	9.92	11.8
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	SR9	Surface	1	1	18:40	21.3	7.71	27.1	6.69	9.73	10.8
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	FIne	Small wave	SR9	Surface	1	2	18:40	21.2	7.73	27	6.71	9.44	9.8
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	SR9	Middle	2	1	18:40						
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	FIne	Small wave	SR9	Middle	2	2	18:40						
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	SR9	Bottom	3	1	18:40	21.2	7.75	27.1	6.63	14.3	10.6
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	SR9	Bottom	3	2	18:40	21.2	7.76	27.1	6.61	13.5	10.2
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	FIne	Small wave	SR10a	Surface	1	1	17:25	21.3	7.79	27.1	6.74	7.81	8.1
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	SR10a	Surface	1	2	17:25	21.3	7.8	27	6.71	8.56	7.4
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	FIne	Small wave	SR10a	Middle	2	1	17:25	21.2	7.83	27.2	6.68	8.79	7.2
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	SR10a	Middle	2	2	17:25	21.2	7.84	27.2	6.66	8.44	7.9

TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	Fine	Small wave	SR10a	Bottom	3	1	17:25	21.1	7.88	27.2	6.53	9.58	10.1
TMCLKL	HY/2012/08	2013-12-04	Mid-Flood	FIne	Small wave	SR10a	Bottom	3	2	17:25	21	7.89	27.2	6.54	9.39	8.9
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	CS4	Surface	1	1	12:10	21.2	7.82	26.9	6.72	13.5	11.9
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	FIne	Great wave	CS4	Surface	1	2	12:10	21.1	7.84	26.9	6.69	15.2	12.8
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	CS4	Middle	2	1	12:10	21	7.88	27	6.6	16.6	16
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	CS4	Middle	2	2	12:10	21	7.89	27	6.57	18.4	15
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	FIne	Great wave	CS4	Bottom	3	1	12:10	20.9	7.87	27.1	6.5	21.1	25.3
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	CS4	Bottom	3	2	12:10	20.9	7.88	27.1	6.52	19.4	23.1
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	FIne	Great wave	CS6	Surface	1	1	14:42	21.2	7.74	26.9	6.73	8.91	8.5
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	CS6	Surface	1	2	14:42	21.1	7.76	26.9	6.75	9.97	8.3
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	CS6	Middle	2	1	14:42	21.1	7.79	26.9	6.77	8.64	9
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	FIne	Great wave	CS6	Middle	2	2	14:42	21.1	7.78	27	6.74	9.75	9.3
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	CS6	Bottom	3	1	14:42	21	7.81	27	6.63	9.98	10.5
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	FIne	Great wave	CS6	Bottom	3	2	14:42	21	7.82	27	6.65	8.31	10.1
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	IS12	Surface	1	1	12:52	21.1	7.81	26.9	6.68	18.8	18.9
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	IS12	Surface	1	2	12:52	21	7.83	26.9	6.71	17.2	17.1
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	FIne	Great wave	IS12	Middle	2	1	12:52	21	7.84	27	6.63	17.3	20.7
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	IS12	Middle	2	2	12:52	21	7.85	27.1	6.61	17.6	19.2
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	FIne	Great wave	IS12	Bottom	3	1	12:52	21	7.88	27.1	6.65	18.2	20
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	IS12	Bottom	3	2	12:52	20.9	7.88	27.1	6.67	16.4	19.4
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	IS13	Surface	1	1	13:15	21.1	7.78	26.9	6.64	14.4	11.2
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	FIne	Great wave	IS13	Surface	1	2	13:15	21.1	7.8	26.8	6.67	12.7	11.1
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	IS13	Middle	2	1	13:15	21.1	7.82	26.9	6.7	14.7	14.1
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	FIne	Great wave	IS13	Middle	2	2	13:15	21	7.83	27	6.69	13.4	13.1
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	IS13	Bottom	3	1	13:15	21	7.86	27	6.6	14	13.9
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	IS13	Bottom	3	2	13:15	21	7.87	27	6.57	14.9	14.9
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	FIne	Great wave	IS14	Surface	1	1	12:32	21.1	7.84	26.9	6.73	14.8	13.8
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	IS14	Surface	1	2	12:32	21.1	7.85	27	6.76	14.3	12.7
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	FIne	Great wave	IS14	Middle	2	1	12:32	21	7.83	27	6.68	15.3	14.7
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	IS14	Middle	2	2	12:32	20.9	7.84	27	6.65	14.1	13.6
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	IS14	Bottom	3	1	12:32	20.9	7.85	27	6.58	18.2	20
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	FIne	Great wave	IS14	Bottom	3	2	12:32	20.9	7.86	27	6.6	16.8	18.7
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	IS15	Surface	1	1	13:36	21.2	7.77	26.9	6.7	19.1	17.2
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	FIne	Great wave	IS15	Surface	1	2	13:36	21.1	7.78	26.9	6.73	17.8	17.5
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	IS15	Middle	2	1	13:36	21.1	7.8	27	6.76	21.4	20.6
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	IS15	Middle	2	2	13:36	21.1	7.82	27	6.78	22.1	20
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	FIne	Great wave	IS15	Bottom	3	1	13:36	21	7.84	27	6.63	19.4	20.6
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	IS15	Bottom	3	2	13:36	21	7.85	27	6.61	17.7	19.8
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	FIne	Great wave	SR8	Surface	1	1	14:20	21.1	7.72	26.8	6.71	9.64	11.3
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	SR8	Surface	1	2	14:20	21.1	7.73	26.9	6.69	9.29	10.8
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	SR8	Middle	2	1	14:20						
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	FIne	Great wave	SR8	Middle	2	2	14:20						
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	SR8	Bottom	3	1	14:20	21.1	7.75	27	6.66	9.93	15.1
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	FIne	Great wave	SR8	Bottom	3	2	14:20	21	7.76	27	6.62	9.99	13.3
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	SR9	Surface	1	1	13:59	21.1	7.75	27	6.65	9.89	9.8
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	SR9	Surface	1	2	13:59	21.1	7.76	27	6.62	8.64	10.4
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	FIne	Great wave	SR9	Middle	2	1	13:59						

TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	SR9	Middle	2	2	13:59						
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	FIne	Great wave	SR9	Bottom	3	1	13:59	21.1	7.77	27	6.6	12.3	14.1
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	SR9	Bottom	3	2	13:59	21.1	7.78	27	6.57	13.9	15.5
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	SR10a	Surface	1	1	15:14	21.2	7.83	27	6.64	7.45	7.2
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	FIne	Great wave	SR10a	Surface	1	2	15:14	21.2	7.84	27	6.67	8.47	7.6
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	SR10a	Middle	2	1	15:14	21.1	7.81	27	6.73	8.61	9.4
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	FIne	Great wave	SR10a	Middle	2	2	15:14	21.1	7.82	27.1	6.71	7.91	8.2
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	SR10a	Bottom	3	1	15:14	21	7.85	27.1	6.58	9.12	8.8
TMCLKL	HY/2012/08	2013-12-04	Mid-Ebb	Fine	Great wave	SR10a	Bottom	3	2	15:14	20.9	7.86	27.1	6.55	9.66	9
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	CS4	Surface	1	1	11:35	20.6	7.91	27.9	6.68	12.6	10.7
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	CS4	Surface	1	2	11:35	20.6	7.94	28	6.71	12.6	11.4
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	CS4	Middle	2	1	11:35	20.5	7.88	28.1	6.65	11.7	11.5
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	CS4	Middle	2	2	11:35	20.6	7.86	28.1	6.64	11.8	9.7
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	CS4	Bottom	3	1	11:35	20.5	7.92	28.2	6.54	15.3	12.9
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	CS4	Bottom	3	2	11:35	20.5	7.94	28.1	6.52	14.2	13.1
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	CS6	Surface	1	1	08:55	20	7.89	27.6	6.78	13.3	10.3
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	CS6	Surface	1	2	08:55	20.1	7.86	27.7	6.73	12.7	11.9
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	CS6	Middle	2	1	08:55	20.1	7.85	27.6	6.7	12.4	10.1
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	CS6	Middle	2	2	08:55	20.1	7.86	27.6	6.68	12.5	10.9
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	CS6	Bottom	3	1	08:55	20.2	7.88	27.7	6.66	13.9	11.5
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	CS6	Bottom	3	2	08:55	20.1	7.86	27.8	6.69	13.7	12.3
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS12	Surface	1	1	10:48	20.4	7.73	27.8	6.66	22.5	18.2
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS12	Surface	1	2	10:48	20.4	7.75	27.8	6.64	22.5	19.8
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS12	Middle	2	1	10:48	20.4	7.78	27.9	6.54	21.9	18.8
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS12	Middle	2	2	10:48	20.3	7.79	27.9	6.55	23.6	18.3
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS12	Bottom	3	1	10:48	20.4	7.89	28.1	6.55	13.8	19.7
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS12	Bottom	3	2	10:48	20.3	7.93	28	6.53	13.8	19.3
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS13	Surface	1	1	10:26	20.4	7.8	27.7	6.71	18.6	15.6
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS13	Surface	1	2	10:26	20.3	7.82	27.7	6.68	17.5	15.9
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS13	Middle	2	1	10:26	20.3	7.85	27.8	6.66	17.9	20.2
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS13	Middle	2	2	10:26	20.2	7.83	27.8	6.63	17.7	20.5
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS13	Bottom	3	1	10:26	20.3	7.89	28	6.56	9.58	20.1
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS13	Bottom	3	2	10:26	20.4	7.86	27.9	6.54	9.12	19.8
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS14	Surface	1	1	11:08	20.5	7.74	27.7	6.64	21.4	21.6
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS14	Surface	1	2	11:08	20.4	7.76	27.8	6.66	21	22.2
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS14	Middle	2	1	11:08	20.5	7.79	27.6	6.5	23.9	24
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS14	Middle	2	2	11:08	20.5	7.82	27.7	6.52	24.6	23.9
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS14	Bottom	3	1	11:08	20.5	7.8	27.8	6.51	10.5	22.6
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS14	Bottom	3	2	11:08	20.4	7.82	27.9	6.48	10	22.4
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS15	Surface	1	1	10:04	20.3	7.8	27.8	6.74	25.1	22.9
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS15	Surface	1	2	10:04	20.3	7.84	27.7	6.72	23.1	22.7
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS15	Middle	2	1	10:04	20.2	7.84	27.7	6.66	17.9	21.5
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS15	Middle	2	2	10:04	20.3	7.86	27.8	6.67	17.4	21.5
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS15	Bottom	3	1	10:04	20.3	7.82	27.9	6.58	19.2	23.7
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	IS15	Bottom	3	2	10:04	20.2	7.84	27.8	6.55	18.4	24
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	SR8	Surface	1	1	09:20	20.1	7.77	27.5	6.74	24.9	23.3
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	SR8	Surface	1	2	09:20	20.1	7.74	27.6	6.72	23.6	24

TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	SR8	Middle	2	1	09:20						
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	SR8	Middle	2	2	09:20						
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	SR8	Bottom	3	1	09:20	20.2	7.79	27.7	6.64	26.6	24.8
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	SR8	Bottom	3	2	09:20	20.1	7.82	27.6	6.61	26.4	23.2
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	SR9	Surface	1	1	09:42	20.2	7.74	27.5	6.68	22.8	26
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	SR9	Surface	1	2	09:42	20.3	7.76	27.6	6.7	22.6	26.9
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	SR9	Middle	2	1	09:42						
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	SR9	Middle	2	2	09:42						
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	SR9	Bottom	3	1	09:42	20.3	7.77	27.7	6.64	25.1	28.2
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	SR9	Bottom	3	2	09:42	20.3	7.79	27.6	6.62	24.5	28.5
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	SR10a	Surface	1	1	08:24	19.9	7.83	27.8	6.84	11.6	12.8
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	SR10a	Surface	1	2	08:24	20	7.8	27.7	6.8	11.5	11.1
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	SR10a	Middle	2	1	08:24	20.1	7.84	27.7	6.76	12.8	12.8
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	SR10a	Middle	2	2	08:24	20	7.82	27.6	6.74	13.1	14.4
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	SR10a	Bottom	3	1	08:24	20	7.89	27.8	6.62	13.6	16.2
TMCLKL	HY/2012/08	2013-12-06	Mid-Flood	Sunny	Small wave	SR10a	Bottom	3	2	08:24	20	7.9	27.7	6.6	14.3	15.5
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	CS4	Surface	1	1	13:47	20.5	7.89	28	6.69	13.2	10.4
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	CS4	Surface	1	2	13:47	20.6	7.91	28	6.66	12.5	10.2
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	CS4	Middle	2	1	13:47	20.6	7.86	27.9	6.64	14.1	10.1
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	CS4	Middle	2	2	13:47	20.5	7.84	28	6.62	12.9	10
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	CS4	Bottom	3	1	13:47	20.4	7.9	28.2	6.51	17.3	15.3
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	CS4	Bottom	3	2	13:47	20.5	7.89	28.2	6.54	18.7	16
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	CS6	Surface	1	1	16:28	20.3	7.84	27.7	6.74	12.3	10.4
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	CS6	Surface	1	2	16:28	20.3	7.82	27.8	6.72	12.9	10.7
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	CS6	Middle	2	1	16:28	20.3	7.86	27.7	6.66	11.7	10.3
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	CS6	Middle	2	2	16:28	20.4	7.85	27.8	6.68	12.7	9.4
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	CS6	Bottom	3	1	16:28	20.4	7.85	27.8	6.6	15	12.6
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	CS6	Bottom	3	2	16:28	20.3	7.84	27.8	6.62	14.8	13.2
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS12	Surface	1	1	14:34	20.5	7.71	27.9	6.61	19.7	18.5
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS12	Surface	1	2	14:34	20.5	7.73	27.9	6.62	20	17.8
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS12	Middle	2	1	14:34	20.4	7.79	27.8	6.56	16.6	13.6
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS12	Middle	2	2	14:34	20.4	7.79	27.8	6.54	16.8	14.9
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS12	Bottom	3	1	14:34	20.4	7.84	28	6.5	12.6	18.6
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS12	Bottom	3	2	14:34	20.5	7.82	27.9	6.52	13.7	18.8
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS13	Surface	1	1	14:57	20.4	7.83	27.8	6.7	25	13.5
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS13	Surface	1	2	14:57	20.5	7.85	27.8	6.68	25.2	12.8
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS13	Middle	2	1	14:57	20.4	7.85	27.9	6.62	20.1	13.6
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS13	Middle	2	2	14:57	20.5	7.86	27.8	6.64	19.4	13
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS13	Bottom	3	1	14:57	20.4	7.88	27.9	6.52	15	12.8
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS13	Bottom	3	2	14:57	20.4	7.88	28	6.55	14.8	12.7
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS14	Surface	1	1	14:11	20.5	7.72	27.8	6.6	16.8	19
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS14	Surface	1	2	14:11	20.5	7.7	27.8	6.64	16.5	19
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS14	Middle	2	1	14:11	20.4	7.73	27.7	6.54	24.4	18
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS14	Middle	2	2	14:11	20.5	7.74	27.8	6.55	25.4	17.8
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS14	Bottom	3	1	14:11	20.4	7.75	27.9	6.55	12.5	20.3
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS14	Bottom	3	2	14:11	20.4	7.77	27.9	6.53	12.3	21.9
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS15	Surface	1	1	15:20	20.4	7.85	27.9	6.7	25.4	25.7

TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS15	Surface	1	2	15:20	20.5	7.86	27.8	6.68	24.4	26.7
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS15	Middle	2	1	15:20	20.4	7.87	27.8	6.64	24.6	25.3
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS15	Middle	2	2	15:20	20.4	7.89	27.8	6.65	25.1	25.2
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS15	Bottom	3	1	15:20	20.4	7.84	27.7	6.56	15.5	27
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	IS15	Bottom	3	2	15:20	20.3	7.86	27.8	6.55	15.7	27
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	SR8	Surface	1	1	16:05	20.4	7.74	27.7	6.7	23.5	20
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	SR8	Surface	1	2	16:05	20.4	7.76	27.6	6.74	23.6	19.7
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	SR8	Middle	2	1	16:05						
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	SR8	Middle	2	2	16:05						
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	SR8	Bottom	3	1	16:05	20.4	7.81	27.8	6.58	20.9	21.1
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	SR8	Bottom	3	2	16:05	20.3	7.83	27.8	6.56	21.9	19.8
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	SR9	Surface	1	1	15:43	20.4	7.75	27.8	6.65	19.5	21.9
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	SR9	Surface	1	2	15:43	20.4	7.74	27.7	6.68	20.4	22.4
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	SR9	Middle	2	1	15:43						
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	SR9	Middle	2	2	15:43						
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	SR9	Bottom	3	1	15:43	20.4	7.81	27.7	6.6	26	25.8
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	SR9	Bottom	3	2	15:43	20.4	7.83	27.7	6.56	26.8	26
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	SR10a	Surface	1	1	16:58	20.3	7.82	27.8	6.77	10.3	10.4
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	SR10a	Surface	1	2	16:58	20.4	7.84	27.7	6.79	10	10.8
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	SR10a	Middle	2	1	16:58	20.3	7.86	27.8	6.81	13.1	11.4
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	SR10a	Middle	2	2	16:58	20.4	7.85	27.8	6.83	13.5	11.8
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	SR10a	Bottom	3	1	16:58	20.3	7.91	27.9	6.74	16.3	13.3
TMCLKL	HY/2012/08	2013-12-06	Mid-Ebb	Sunny	Great wave	SR10a	Bottom	3	2	16:58	20.3	7.9	27.9	6.75	17.1	14.3
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	CS4	Surface	1	1	14:15	20.6	7.9	26.1	6.43	6.55	5.2
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	CS4	Surface	1	2	14:15	20.6	7.9	26.1	6.39	6.5	4.7
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	CS4	Middle	2	1	14:15	20.5	7.9	26.2	6.34	7.07	7.4
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	CS4	Middle	2	2	14:15	20.5	7.91	26.2	6.3	7.02	7
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	CS4	Bottom	3	1	14:15	20.5	7.91	26.2	6.29	7.44	8.1
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	CS4	Bottom	3	2	14:15	20.5	7.91	26.2	6.26	7.38	9.6
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	CS6	Surface	1	1	11:03	20.5	7.8	25.7	6.7	5.55	6.8
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	CS6	Surface	1	2	11:03	20.5	7.81	25.7	6.73	5.51	7.7
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	CS6	Middle	2	1	11:03	20.4	7.82	26.1	6.71	5.87	5.8
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	CS6	Middle	2	2	11:03	20.4	7.83	26.1	6.68	5.93	7
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	CS6	Bottom	3	1	11:03	20.4	7.83	26.2	6.61	5.61	6.7
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	CS6	Bottom	3	2	11:03	20.4	7.83	26.2	6.58	5.65	6.2
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	IS12	Surface	1	1	13:15	20.6	7.87	26.1	6.41	5.79	5.2
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	IS12	Surface	1	2	13:15	20.6	7.88	26.1	6.43	5.72	5.3
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	IS12	Middle	2	1	13:15	20.5	7.88	26.2	6.42	6.76	6.4
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	IS12	Middle	2	2	13:15	20.5	7.88	26.2	6.39	6.74	6
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	IS12	Bottom	3	1	13:15	20.5	7.89	26.2	6.37	7.57	6.6
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	IS12	Bottom	3	2	13:15	20.5	7.89	26.2	6.39	7.51	7.5
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	IS13	Surface	1	1	12:53	20.6	7.88	26.3	6.3	6.44	5
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	IS13	Surface	1	2	12:53	20.6	7.86	26.3	6.32	6.38	6.2
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	IS13	Middle	2	1	12:53	20.6	7.86	26.3	6.32	6.36	6.6
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	IS13	Middle	2	2	12:53	20.6	7.86	26.3	6.28	6.32	6
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	IS13	Bottom	3	1	12:53	20.6	7.87	26.3	6.27	6.77	8
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	IS13	Bottom	3	2	12:53	20.6	7.88	26.3	6.25	6.7	7.4

TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	IS14	Middle	2	2	13:37	20.5	7.9	26.2	6.28	6.71	7.6
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	IS14	Bottom	3	1	13:37	20.5	7.9	26.2	6.36	7.14	7.4
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	IS14	Bottom	3	2	13:37	20.5	7.89	26.2	6.33	7.08	7.3
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	IS15	Surface	1	1	12:33	20.6	7.87	26.3	6.36	6.84	5.5
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	IS15	Surface	1	2	12:33	20.6	7.87	26.3	6.34	6.89	6.5
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	IS15	Middle	2	1	12:33	20.6	7.88	26.3	6.31	7.46	6.9
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	IS15	Middle	2	2	12:33	20.6	7.88	26.3	6.34	7.43	6.7
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	IS15	Bottom	3	1	12:33	20.6	7.88	26.3	6.2	6.58	6.7
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	IS15	Bottom	3	2	12:33	20.6	7.88	26.3	6.15	6.51	6.3
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	SR8	Surface	1	1	12:02	20.4	7.83	26.2	6.89	4.65	3.8
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	SR8	Surface	1	2	12:02	20.4	7.83	26.2	6.87	4.71	4.3
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	SR8	Middle	2	1	12:02						
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	SR8	Middle	2	2	12:02						
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	SR8	Bottom	3	1	12:02	20.4	7.85	26.2	6.76	4.45	5.4
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	SR8	Bottom	3	2	12:02	20.4	7.85	26.2	6.73	4.41	6.3
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	SR9	Surface	1	1	12:17	20.5	7.85	26.2	6.41	3.9	4.8
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	SR9	Surface	1	2	12:17	20.5	7.86	26.2	6.37	3.96	5.1
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	SR9	Middle	2	1	12:17						
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	SR9	Middle	2	2	12:17						
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	SR9	Bottom	3	1	12:17	20.5	7.86	26.3	6.43	4.42	4.3
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	SR9	Bottom	3	2	12:17	20.5	7.86	26.3	6.39	4.48	4.6
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	SR10a	Surface	1	1	11:33	20.5	7.82	26	6.45	5.15	6
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	SR10a	Surface	1	2	11:33	20.5	7.82	26	6.47	5.1	5.1
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	SR10a	Middle	2	1	11:33	20.5	7.84	26.1	6.56	4.84	4.3
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	SR10a	Middle	2	2	11:33	20.5	7.84	26.1	6.59	4.93	4.7
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	SR10a	Bottom	3	1	11:33	20.5	7.84	26.2	6.59	6.4	6.3
TMCLKL	HY/2012/08	2013-12-09	Mid-Flood	Fine	Small wave	SR10a	Bottom	3	2	11:33	20.5	7.85	26.2	6.56	6.47	5
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	CS4	Surface	1	1	17:03	20.9	7.88	25.9	6.4	5.07	4.9
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	CS4	Surface	1	2	17:03	20.9	7.89	26	6.37	5.15	3.6
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	CS4	Middle	2	1	17:03	20.8	7.88	26.2	6.3	7.38	9.2
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	CS4	Middle	2	2	17:03	20.7	7.87	26.2	6.34	7.31	7.7
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	CS4	Bottom	3	1	17:03	20.7	7.88	26.2	6.35	7.53	9.9
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	CS4	Bottom	3	2	17:03	20.7	7.89	26.2	6.38	7.5	10.4
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	CS6	Surface	1	1	19:30	20.8	7.88	26	6.59	5.22	5.6
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	CS6	Surface	1	2	19:30	20.8	7.89	26	6.57	5.16	5.7
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	CS6	Middle	2	1	19:30	20.7	7.87	26.1	6.63	6.55	6.1
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	CS6	Middle	2	2	19:30	20.7	7.88	26.1	6.59	6.58	7.4
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	CS6	Bottom	3	1	19:30	20.6	7.89	26.2	6.6	6.45	7.5
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	CS6	Bottom	3	2	19:30	20.6	7.89	26.2	6.64	6.42	7
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS12	Surface	1	1	17:55	20.9	7.89	26.1	6.35	5.84	5
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS12	Surface	1	2	17:55	20.9	7.89	26.1	6.38	5.8	5.2
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS12	Middle	2	1	17:55	20.8	7.88	26.2	6.33	6.81	6.9
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS12	Middle	2	2	17:55	20.8	7.89	26.2	6.28	6.77	6.3
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS12	Bottom	3	1	17:55	20.7	7.9	26.2	6.28	8.31	7.6
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS12	Bottom	3	2	17:55	20.7	7.9	26.2	6.25	8.26	6.4
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS13	Surface	1	1	18:15	20.8	7.87	26.3	6.29	6.48	5.9
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS13	Surface	1	2	18:15	20.8	7.87	26.3	6.32	6.55	5.8

TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS13	Middle	2	1	18:15	20.8	7.89	26.3	6.33	6.31	7.4
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS13	Middle	2	2	18:15	20.7	7.89	26.3	6.35	6.26	6.4
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS13	Bottom	3	1	18:15	20.7	7.89	26.3	6.24	6.94	7
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS13	Bottom	3	2	18:15	20.7	7.89	26.3	6.27	6.9	7
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS14	Surface	1	1	17:35	20.9	7.9	26.1	6.45	5.21	4.1
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS14	Surface	1	2	17:35	20.9	7.9	26.1	6.48	5.14	5.4
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS14	Middle	2	1	17:35	20.8	7.89	26.2	6.34	6.96	6.4
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS14	Middle	2	2	17:35	20.8	7.9	26.2	6.38	6.99	6.7
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS14	Bottom	3	1	17:35	20.7	7.9	26.2	6.32	6.89	7.1
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS14	Bottom	3	2	17:35	20.7	7.9	26.2	6.28	6.95	7.8
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS15	Surface	1	1	18:35	20.8	7.86	26.3	6.36	7.71	5.4
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS15	Surface	1	2	18:35	20.8	7.87	26.2	6.33	7.67	5.2
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS15	Middle	2	1	18:35	20.8	7.88	26.3	6.24	6.48	6.7
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS15	Middle	2	2	18:35	20.8	7.88	26.3	6.2	6.45	6
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS15	Bottom	3	1	18:35	20.7	7.88	26.3	6.35	8.43	7.7
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	IS15	Bottom	3	2	18:35	20.7	7.89	26.3	6.4	8.38	8.6
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	SR8	Surface	1	1	19:13	20.8	7.89	26.2	6.9	4.17	3.9
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	SR8	Surface	1	2	19:13	20.8	7.89	26.2	6.86	4.11	3.8
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	SR8	Middle	2	1	19:13						
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	SR8	Middle	2	2	19:13						
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	SR8	Bottom	3	1	19:13	20.7	7.89	26.2	6.68	4.68	5
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	SR8	Bottom	3	2	19:13	20.7	7.89	26.2	6.65	4.73	5
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	SR9	Surface	1	1	18:55	20.8	7.88	26.2	6.46	4.45	6
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	SR9	Surface	1	2	18:55	20.8	7.88	26.2	6.43	4.41	5.5
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	SR9	Middle	2	1	18:55						
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	SR9	Middle	2	2	18:55						
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	SR9	Bottom	3	1	18:55	20.7	7.89	26.2	6.5	4.97	6.2
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	SR9	Bottom	3	2	18:55	20.7	7.89	26.2	6.46	4.92	6.7
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	SR10a	Surface	1	1	20:10	20.8	7.87	26.1	6.56	5.55	5.1
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	SR10a	Surface	1	2	20:10	20.8	7.88	26.1	6.52	5.48	3.7
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	SR10a	Middle	2	1	20:10	20.6	7.86	26.1	6.65	5.82	7.5
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	SR10a	Middle	2	2	20:10	20.6	7.87	26.1	6.61	5.77	6.2
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	SR10a	Bottom	3	1	20:10	20.6	7.88	26.2	6.63	6.72	7.4
TMCLKL	HY/2012/08	2013-12-09	Mid-Ebb	Fine	Small wave	SR10a	Bottom	3	2	20:10	20.6	7.88	26.2	6.66	6.76	6.2
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	CS4	Surface	1	1	15:45	20.8	7.88	26	6.4	3.89	3.3
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	CS4	Surface	1	2	15:45	20.9	7.9	26	6.37	3.83	2.5
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	CS4	Middle	2	1	15:45	20.7	7.91	26.2	6.37	4.73	4.5
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	CS4	Middle	2	2	15:45	20.7	7.93	26.3	6.39	4.79	2.8
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	CS4	Bottom	3	1	15:45	20.6	7.84	26.5	6.42	5.09	4.7
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	CS4	Bottom	3	2	15:45	20.5	7.82	26.6	6.44	5.13	3.3
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	CS6	Surface	1	1	12:50	20.9	7.74	25.9	6.64	4.06	3.6
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	CS6	Surface	1	2	12:50	20.8	7.76	26	6.66	4.08	3.9
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	CS6	Middle	2	1	12:50	20.7	7.82	26.2	6.69	4.02	2.9
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	CS6	Middle	2	2	12:50	20.8	7.84	26.3	6.71	4.07	4.2
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	CS6	Bottom	3	1	12:50	20.5	7.88	26.4	6.65	4.08	5.2
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	CS6	Bottom	3	2	12:50	20.6	7.89	26.3	6.67	4.1	4.6
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS12	Surface	1	1	15:02	20.9	7.91	25.9	6.44	3.69	5.8

TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS12	Surface	1	2	15:02	20.9	7.93	26	6.46	3.74	4.9
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS12	Middle	2	1	15:02	20.7	7.86	26.2	6.36	4.75	5.9
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS12	Middle	2	2	15:02	20.8	7.88	26.1	6.38	4.82	6.6
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS12	Bottom	3	1	15:02	20.5	7.89	26.4	6.29	4.26	6.6
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS12	Bottom	3	2	15:02	20.6	7.91	26.3	6.28	4.29	6.3
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS13	Surface	1	1	14:40	20.8	7.85	26.1	6.37	4.07	3
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS13	Surface	1	2	14:40	20.7	7.87	26.1	6.39	4.17	4.2
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS13	Middle	2	1	14:40	20.6	7.89	26.3	6.34	4.11	5
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS13	Middle	2	2	14:40	20.6	7.91	26.2	6.33	4.16	4.7
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS13	Bottom	3	1	14:40	20.5	7.84	26.5	6.29	4.34	5.2
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS13	Bottom	3	2	14:40	20.6	7.86	26.4	6.3	4.42	4.1
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS14	Surface	1	1	15:24	20.8	7.84	26	6.52	3.71	5
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS14	Surface	1	2	15:24	20.7	7.86	26.1	6.54	3.77	4
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS14	Middle	2	1	15:24	20.6	7.88	26.2	6.41	4.47	4.9
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS14	Middle	2	2	15:24	20.7	7.88	26.2	6.43	4.41	5.9
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS14	Bottom	3	1	15:24	20.5	7.92	26.4	6.37	4.66	6
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS14	Bottom	3	2	15:24	20.5	7.94	26.5	6.38	4.68	5.8
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS15	Surface	1	1	14:20	20.8	7.8	26	6.39	4.09	3.1
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS15	Surface	1	2	14:20	20.9	7.82	25.9	6.41	4.16	4.2
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS15	Middle	2	1	14:20	20.7	7.84	26.2	6.28	4.19	4.6
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS15	Middle	2	2	14:20	20.6	7.86	26.1	6.3	4.25	3.1
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS15	Bottom	3	1	14:20	20.5	7.89	26.3	6.42	4.35	5.6
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	IS15	Bottom	3	2	14:20	20.5	7.91	26.4	6.44	4.3	5
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	SR8	Surface	1	1	13:49	20.7	7.87	26.1	6.94	4.23	3.7
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	SR8	Surface	1	2	13:49	20.8	7.89	26.2	6.96	4.31	4.7
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	SR8	Middle	2	1	13:49						
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	SR8	Middle	2	2	13:49						
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	SR8	Bottom	3	1	13:49	20.6	7.91	26.3	6.69	4.42	3.4
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	SR8	Bottom	3	2	13:49	20.7	7.89	26.3	6.7	4.51	4.3
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	SR9	Surface	1	1	14:04	20.7	7.85	26	6.52	4.07	3.2
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	SR9	Surface	1	2	14:04	20.8	7.87	26.1	6.54	4.13	3.4
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	SR9	Middle	2	1	14:04						
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	SR9	Middle	2	2	14:04						
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	SR9	Bottom	3	1	14:04	20.7	7.84	26.3	6.47	3.8	5.1
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	SR9	Bottom	3	2	14:04	20.7	7.86	26.2	6.49	3.87	3.7
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	SR10a	Surface	1	1	13:20	20.8	7.82	26	6.57	3.98	2.8
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	SR10a	Surface	1	2	13:20	20.8	7.84	26.1	6.59	4.02	3.7
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	SR10a	Middle	2	1	13:20	20.7	7.89	26.2	6.68	4.35	2.8
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	SR10a	Middle	2	2	13:20	20.6	7.91	26.2	6.7	4.39	2.4
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	SR10a	Bottom	3	1	13:20	20.5	7.86	26.3	6.71	4.2	5.7
TMCLKL	HY/2012/08	2013-12-11	Mid-Flood	Fine	Small wave	SR10a	Bottom	3	2	13:20	20.5	7.89	26.4	6.72	4.27	4.1
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	CS4	Surface	1	1	19:32	20.8	7.82	26	6.33	3.91	4.7
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	CS4	Surface	1	2	19:32	20.7	7.84	26	6.31	3.92	4.2
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	CS4	Middle	2	1	19:32	20.6	7.88	26.2	6.34	4.82	3
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	CS4	Middle	2	2	19:32	20.6	7.86	26.1	6.35	4.84	4
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	CS4	Bottom	3	1	19:32	20.5	7.83	26.4	6.39	5.15	4.4
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	CS4	Bottom	3	2	19:32	20.6	7.85	26.3	6.37	5.17	4.8

TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	CS6	Surface	1	1	22:23	20.8	7.79	26	6.59	4.11	5.1
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	CS6	Surface	1	2	22:23	20.7	7.8	26.1	6.61	4.13	5.8
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	CS6	Middle	2	1	22:23	20.7	7.85	26.2	6.64	4.15	5.1
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	CS6	Middle	2	2	22:23	20.7	7.87	26.2	6.61	4.18	5
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	CS6	Bottom	3	1	22:23	20.6	7.84	26.4	6.6	4.11	5.7
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	CS6	Bottom	3	2	22:23	20.5	7.86	26.3	6.58	4.13	5.3
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS12	Surface	1	1	20:12	20.8	7.88	26	6.39	3.77	3.7
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS12	Surface	1	2	20:12	20.9	7.9	26.1	6.41	3.77	4.5
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS12	Middle	2	1	20:12	20.7	7.84	26.2	6.34	4.84	3.3
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS12	Middle	2	2	20:12	20.7	7.83	26.3	6.32	4.84	3.5
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS12	Bottom	3	1	20:12	20.6	7.77	26.5	6.23	4.33	3.4
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS12	Bottom	3	2	20:12	20.5	7.78	26.4	6.21	4.35	4.9
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS13	Surface	1	1	20:32	20.9	7.81	26.1	6.35	4.22	4.1
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS13	Surface	1	2	20:32	20.8	7.82	26.1	6.33	4.24	3.9
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS13	Middle	2	1	20:32	20.8	7.74	26.3	6.29	4.17	4.8
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS13	Middle	2	2	20:32	20.7	7.76	26.2	6.31	4.19	3.6
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS13	Bottom	3	1	20:32	20.6	7.77	26.4	6.22	4.45	3.6
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS13	Bottom	3	2	20:32	20.6	7.79	26.4	6.23	4.46	3.9
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS14	Surface	1	1	19:52	20.8	7.79	26.1	6.43	3.79	4.7
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS14	Surface	1	2	19:52	20.8	7.81	26.1	6.45	3.81	3.7
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS14	Middle	2	1	19:52	20.6	7.74	26.3	6.37	4.52	5.3
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS14	Middle	2	2	19:52	20.7	7.76	26.2	6.35	4.54	4
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS14	Bottom	3	1	19:52	20.5	7.83	26.4	6.33	4.68	4.9
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS14	Bottom	3	2	19:52	20.5	7.85	26.5	6.31	4.69	6.5
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS15	Surface	1	1	20:53	20.8	7.79	26	6.34	4.18	3.6
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS15	Surface	1	2	20:53	20.7	7.77	26.1	6.32	4.2	3.8
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS15	Middle	2	1	20:53	20.6	7.8	26.3	6.17	4.29	4.1
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS15	Middle	2	2	20:53	20.6	7.82	26.2	6.2	4.31	4.3
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS15	Bottom	3	1	20:53	20.5	7.86	26.4	6.36	4.39	4.4
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	IS15	Bottom	3	2	20:53	20.6	7.85	26.5	6.38	4.41	5.6
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	SR8	Surface	1	1	21:28	20.7	7.83	26.1	6.84	4.37	5.9
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	SR8	Surface	1	2	21:28	20.7	7.85	26.2	6.86	4.39	4.4
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	SR8	Middle	2	1	21:28						
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	SR8	Middle	2	2	21:28						
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	SR8	Bottom	3	1	21:28	20.6	7.89	26.3	6.62	4.54	5.2
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	SR8	Bottom	3	2	21:28	20.5	7.91	26.2	6.6	4.57	6.2
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	SR9	Surface	1	1	21:13	20.7	7.81	26.1	6.46	4.17	4.3
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	SR9	Surface	1	2	21:13	20.7	7.83	26.2	6.48	4.19	5.2
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	SR9	Middle	2	1	21:13						
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	SR9	Middle	2	2	21:13						
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	SR9	Bottom	3	1	21:13	20.6	7.86	26.3	6.41	3.89	4.9
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	SR9	Bottom	3	2	21:13	20.5	7.88	26.3	6.4	3.91	4.2
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	SR10a	Surface	1	1	21:53	20.7	7.74	26	6.49	4.05	4.2
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	SR10a	Surface	1	2	21:53	20.8	7.76	26	6.51	4.07	4.4
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	SR10a	Middle	2	1	21:53	20.7	7.79	26.3	6.62	4.42	3
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	SR10a	Middle	2	2	21:53	20.6	7.81	26.2	6.6	4.44	4
TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	SR10a	Bottom	3	1	21:53	20.5	7.83	26.5	6.67	4.29	4.4

TMCLKL	HY/2012/08	2013-12-11	Mid-Ebb	Fine	Small wave	SR10a	Bottom	3	2	21:53	20.5	7.85	26.4	6.65	4.3	6.2
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	17:24	20	7.68	26	6.55	6.42	4.7
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	2	17:24	20	7.69	26	6.52	6.31	4.7
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	CS4	Middle	2	1	17:24	20.1	7.64	26.1	6.59	6.83	4.9
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	CS4	Middle	2	2	17:24	20.1	7.66	26.2	6.56	6.71	5.6
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	CS4	Bottom	3	1	17:24	20.1	7.68	26.3	6.41	7.24	5
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	CS4	Bottom	3	2	17:24	20.2	7.69	26.4	6.39	7.09	5.7
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	14:47	20.1	7.49	26	6.57	4.83	2.6
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	2	14:47	20.1	7.51	26.1	6.55	4.99	2.4
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	CS6	Middle	2	1	14:47	20.1	7.53	26.2	6.62	5.1	3.1
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	CS6	Middle	2	2	14:47	20.1	7.54	26.2	6.6	5.26	3.2
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	CS6	Bottom	3	1	14:47	20.1	7.57	26.3	6.5	5.14	3.1
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	CS6	Bottom	3	2	14:47	20.2	7.58	26.3	6.47	4.98	2.4
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	16:33	20.1	7.58	26	6.49	5.29	4
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	2	16:33	20	7.6	26	6.51	5.52	3.4
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS12	Middle	2	1	16:33	20.2	7.61	26.2	6.4	4.68	3.3
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS12	Middle	2	2	16:33	20.2	7.62	26.2	6.37	4.79	2.6
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS12	Bottom	3	1	16:33	20.2	7.65	26.3	6.27	5.13	2.6
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS12	Bottom	3	2	16:33	20.2	7.67	26.3	6.27	5.24	3
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	16:12	20.1	7.54	26	6.51	5.23	2.7
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	2	16:12	20.1	7.55	26	6.54	5.5	2.8
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS13	Middle	2	1	16:12	20.1	7.6	26.1	6.59	4.98	2.8
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS13	Middle	2	2	16:12	20.2	7.58	26.1	6.6	5.15	2.6
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS13	Bottom	3	1	16:12	20.2	7.62	26.2	6.48	4.54	2.5
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS13	Bottom	3	2	16:12	20.2	7.63	26.3	6.45	4.66	3
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	16:57	20	7.63	26.1	6.45	5.52	3
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	2	16:57	19.9	7.65	26.1	6.48	5.78	2.7
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS14	Middle	2	1	16:57	20.1	7.68	26.2	6.51	5.21	2.6
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS14	Middle	2	2	16:57	20.2	7.69	26.3	6.5	5.38	3
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS14	Bottom	3	1	16:57	20.2	7.66	26.3	6.35	5.09	2.6
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS14	Bottom	3	2	16:57	20.2	7.67	26.3	6.32	5.25	3.8
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	15:15	20.1	7.58	26	6.49	5.32	2.7
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	2	15:15	20	7.56	26.1	6.52	3.18	3.3
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS15	Middle	2	1	15:15	20.1	7.59	26.1	6.55	4.82	3.6
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS15	Middle	2	2	15:15	20.1	7.6	26.1	6.53	4.68	3.5
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS15	Bottom	3	1	15:15	20.1	7.56	26.2	6.47	4.52	3.2
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	IS15	Bottom	3	2	15:15	20.2	7.57	26.2	6.44	4.7	4.1
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	15:10	20.1	7.58	26	6.59	6.43	3.6
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	2	15:10	20.1	7.59	26	6.56	6.32	4.3
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	SR8	Middle	2	1	15:10						
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	SR8	Middle	2	2	15:10						
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	SR8	Bottom	3	1	15:10	20.1	7.6	26.1	6.6	6.75	5.5
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	SR8	Bottom	3	2	15:10	20.1	7.61	26.1	6.63	6.62	4.4
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	15:30	20.1	7.52	26.1	6.57	5.14	2.8
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	2	15:30	20.1	7.53	26.1	6.59	4.96	2.8
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	SR9	Middle	2	1	15:30						
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	SR9	Middle	2	2	15:30						

TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	SR9	Bottom	3	1	15:30	20.1	7.57	26.2	6.55	4.76	3.5
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	SR9	Bottom	3	2	15:30	20.2	7.58	26.2	6.52	4.85	3.4
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	SR10a	Surface	1	1	14:15	20.2	7.59	26.1	6.61	5.32	3.3
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	SR10a	Surface	1	2	14:15	20.1	7.57	26.2	6.58	5.24	3.2
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	SR10a	Middle	2	1	14:15	20.2	7.55	26.3	6.53	5.17	2.9
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	SR10a	Middle	2	2	14:15	20.1	7.57	26.3	6.5	5.1	2.3
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	SR10a	Bottom	3	1	14:15	20.2	7.59	26.4	6.41	5.68	2.4
TMCLKL	HY/2012/08	2013-12-13	Mid-Flood	Cloudy	Small wave	SR10a	Bottom	3	2	14:15	20.2	7.61	26.4	6.38	5.75	2.3
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	08:10	19.9	7.64	25.8	6.42	6.22	4.9
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	2	08:10	20	7.66	25.9	6.44	6.54	4.9
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	CS4	Middle	2	1	08:10	20.2	7.68	26.1	6.51	6.91	4.8
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	CS4	Middle	2	2	08:10	20.1	7.69	26.1	6.53	6.59	3.9
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	3	1	08:10	20.2	7.7	26.2	6.32	7.18	5.8
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	3	2	08:10	20.3	7.68	26.3	6.35	7	5.1
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	10:52	20.1	7.55	26.1	6.53	5.05	3.2
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	2	10:52	20.2	7.56	26.1	6.49	4.75	3
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	CS6	Middle	2	1	10:52	20.2	7.54	26.1	6.56	5.32	3.2
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	CS6	Middle	2	2	10:52	20.2	7.55	26.2	6.58	5.24	2.6
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	3	1	10:52	20.2	7.58	26.2	6.43	4.83	2.8
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	3	2	10:52	20.3	7.59	26.3	6.41	5.08	3.4
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	08:54	20	7.56	26	6.39	6.06	2.8
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	2	08:54	20	7.57	26.1	6.42	5.48	2.9
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS12	Middle	2	1	08:54	20.1	7.59	26.2	6.5	4.72	3.5
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS12	Middle	2	2	08:54	20.1	7.6	26.2	6.47	5.11	2.8
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS12	Bottom	3	1	08:54	20.2	7.54	26.2	6.33	4.97	3.4
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS12	Bottom	3	2	08:54	20.1	7.55	26.2	6.31	5.32	4.8
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	09:17	20	7.58	26.1	6.48	4.98	2.7
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	2	09:17	20.1	7.59	26.1	6.45	5.73	2.3
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS13	Middle	2	1	09:17	20.1	7.55	26.1	6.51	5.56	2.4
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS13	Middle	2	2	09:17	20.1	7.56	26.2	6.53	4.79	2
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS13	Bottom	3	1	09:17	20.1	7.6	26.2	6.4	4.68	3.1
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS13	Bottom	3	2	09:17	20.1	7.58	26.2	6.37	4.79	3.2
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	08:33	20	7.54	25.9	6.37	6	2.8
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	2	08:33	20	7.55	26	6.4	5.24	3.7
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS14	Middle	2	1	08:33	20.1	7.58	26.1	6.46	5.05	3.4
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS14	Middle	2	2	08:33	20.1	7.57	26.1	6.48	5.44	3.3
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	3	1	08:33	20.1	7.58	26.1	6.31	4.92	3.5
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	3	2	08:33	20.2	7.59	26.2	6.29	5.59	3.4
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	09:40	20.1	7.54	26.1	6.41	5.2	3.2
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	2	09:40	20.1	7.55	26.2	6.43	4.94	3.8
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS15	Middle	2	1	09:40	20.1	7.58	26.2	6.48	4.44	2.6
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS15	Middle	2	2	09:40	20.1	7.59	26.2	6.5	4.71	2.8
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS15	Bottom	3	1	09:40	20.2	7.52	26.2	6.34	4.29	2.7
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	IS15	Bottom	3	2	09:40	20.2	7.53	26.3	6.36	4.94	3.8
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	SR8	Surface	1	1	10:30	20.1	7.52	26.1	6.52	6.57	3.9
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	SR8	Surface	1	2	10:30	20.2	7.53	26	6.55	5.28	3.4
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	SR8	Middle	2	1	10:30						

TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	SR8	Middle	2	2	10:30						
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	SR8	Bottom	3	1	10:30	20.2	7.55	26.1	6.58	6.4	4.7
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	SR8	Bottom	3	2	10:30	20.3	7.56	26.2	6.56	6.66	5.1
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	10:02	20.1	7.48	26.2	6.54	4.81	2.9
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	2	10:02	20.2	7.49	26.2	6.51	5.09	2.9
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	SR9	Middle	2	1	10:02						
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	SR9	Middle	2	2	10:02						
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3	1	10:02	20.2	7.51	26.2	6.49	4.82	2.9
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3	2	10:02	20.2	7.52	26.3	6.47	4.86	3.1
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	SR10a	Surface	1	1	11:23	20.2	7.61	26.2	6.44	5.4	2.7
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	SR10a	Surface	1	2	11:23	20.2	7.63	26.1	6.42	5.15	2.3
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	SR10a	Middle	2	1	11:23	20.2	7.64	26.2	6.49	5.08	2.3
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	SR10a	Middle	2	2	11:23	20.3	7.65	26.3	6.51	5.23	2.1
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	SR10a	Bottom	3	1	11:23	20.3	7.62	26.3	6.32	5.97	2.2
TMCLKL	HY/2012/08	2013-12-13	Mid-Ebb	Cloudy	Small wave	SR10a	Bottom	3	2	11:23	20.3	7.63	26.4	6.33	5.52	2.6
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	CS4	Surface	1	1	19:05	20.3	7.99	27.1	6.64	2.12	7.2
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	CS4	Surface	1	2	19:05	20.3	7.98	27.1	6.6	2.15	6.7
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	CS4	Middle	2	1	19:05	20.3	7.97	27.2	6.37	3.45	10.8
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	CS4	Middle	2	2	19:05	20.3	7.96	27.1	6.35	3.41	11.1
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	CS4	Bottom	3	1	19:05	20.4	7.98	27.2	6.29	2.77	13
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	CS4	Bottom	3	2	19:05	20.3	7.98	27.3	6.26	2.71	11.2
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	CS6	Surface	1	1	15:53	20.2	7.99	27.1	6.55	2.96	13.4
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	CS6	Surface	1	2	15:53	20.3	7.99	27.1	6.58	2.98	13.2
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	CS6	Middle	2	1	15:53	20.3	7.97	27.2	6.4	4.25	12
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	CS6	Middle	2	2	15:53	20.3	7.98	27.2	6.44	4.21	12.8
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	CS6	Bottom	3	1	15:53	20.3	7.98	27.2	6.34	4.88	12.1
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	CS6	Bottom	3	2	15:53	20.3	7.98	27.2	6.3	4.84	13
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS12	Surface	1	1	18:08	20.3	7.97	27	6.6	3.18	10.5
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS12	Surface	1	2	18:08	20.3	7.97	27	6.64	3.15	10.6
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS12	Middle	2	1	18:08	20.3	7.96	27.1	6.39	3.61	11.9
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS12	Middle	2	2	18:08	20.3	7.97	27.1	6.36	3.64	11
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS12	Bottom	3	1	18:08	20.3	7.98	27.2	6.25	3.82	12.6
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS12	Bottom	3	2	18:08	20.4	7.98	27.2	6.27	3.86	11.5
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS13	Surface	1	1	17:48	20.3	7.97	27.1	6.53	2.34	10.4
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS13	Surface	1	2	17:48	20.2	7.97	27.1	6.5	2.38	9.2
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS13	Middle	2	1	17:48	20.2	7.97	27.2	6.29	2.9	9
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS13	Middle	2	2	17:48	20.3	7.98	27.2	6.31	2.95	10.1
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS13	Bottom	3	1	17:48	20.3	7.99	27.2	6.2	2.53	9.4
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS13	Bottom	3	2	17:48	20.4	7.98	27.2	6.17	2.58	8.8
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS14	Surface	1	1	18:30	20.3	7.98	27.1	6.57	2.94	8.4
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS14	Surface	1	2	18:30	20.2	7.98	27.1	6.55	2.9	8.5
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS14	Middle	2	1	18:30	20.3	7.97	27.2	6.4	2.95	8
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS14	Middle	2	2	18:30	20.2	7.98	27.2	6.45	2.91	8.6
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS14	Bottom	3	1	18:30	20.4	7.96	27.2	6.18	3	10.4
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS14	Bottom	3	2	18:30	20.4	7.97	27.2	6.15	3.07	9.9
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS15	Surface	1	1	17:28	20.2	7.95	27.1	6.47	3	9.4
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS15	Surface	1	2	17:28	20.2	7.96	27.1	6.44	3.04	9.7

TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS15	Middle	2	1	17:28	20.2	7.98	27.2	6.34	3.05	10.8
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS15	Middle	2	2	17:28	20.1	7.97	27.2	6.3	3.08	11.3
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS15	Bottom	3	1	17:28	20.3	7.98	27.2	6.21	3.4	11.7
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	IS15	Bottom	3	2	17:28	20.3	7.98	27.2	6.18	3.44	11.5
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	SR8	Surface	1	1	16:53	20.2	7.99	27.1	6.51	2.67	8.8
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	SR8	Surface	1	2	16:53	20.2	7.98	27.1	6.49	2.61	8.1
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	SR8	Middle	2	1	16:53						
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	SR8	Middle	2	2	16:53						
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	SR8	Bottom	3	1	16:53	20.2	7.98	27.2	6.42	2.98	11.1
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	SR8	Bottom	3	2	16:53	20.2	7.98	27.2	6.38	2.95	9.4
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	SR9	Surface	1	1	17:13	20.2	7.96	27.1	6.52	2.08	11.3
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	SR9	Surface	1	2	17:13	20.2	7.97	27	6.55	2.05	11.8
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	SR9	Middle	2	1	17:13						
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	SR9	Middle	2	2	17:13						
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	SR9	Bottom	3	1	17:13	20.2	7.97	27.1	6.38	2.65	10.6
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	SR9	Bottom	3	2	17:13	20.2	7.97	27.1	6.34	2.68	10.8
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	SR10a	Surface	1	1	16:23	20.3	7.98	27.1	6.49	3.06	8.7
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	SR10a	Surface	1	2	16:23	20.3	7.98	27.1	6.47	3.01	9.7
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	SR10a	Middle	2	1	16:23	20.2	7.99	27.2	6.37	3.3	9
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	SR10a	Middle	2	2	16:23	20.3	7.98	27.2	6.34	3.35	9.2
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	SR10a	Bottom	3	1	16:23	20.3	7.99	27.2	6.35	3.34	13.8
TMCLKL	HY/2012/08	2013-12-16	Mid-Flood	Rainy	Small wave	SR10a	Bottom	3	2	16:23	20.4	7.99	27.3	6.38	3.3	14.4
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	CS4	Surface	1	1	10:36	20.1	7.99	27	6.34	2.7	10.2
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	CS4	Surface	1	2	10:36	20.1	7.98	27	6.37	2.74	10.1
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	CS4	Middle	2	1	10:36	20.3	7.96	27.1	6.24	3.13	9.3
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	CS4	Middle	2	2	10:36	20.3	7.97	27.1	6.2	3.16	8.6
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	CS4	Bottom	3	1	10:36	20.3	7.98	27.1	6.2	2.8	9.6
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	CS4	Bottom	3	2	10:36	20.3	7.98	27.1	6.17	2.87	9.5
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	CS6	Surface	1	1	13:00	20	7.99	27	6.4	2.29	9.8
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	CS6	Surface	1	2	13:00	20.1	7.98	27	6.43	2.33	8.6
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	CS6	Middle	2	1	13:00	20.2	7.97	27.1	6.26	3.93	9.8
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	CS6	Middle	2	2	13:00	20.2	7.97	27.1	6.24	3.96	8.3
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	CS6	Bottom	3	1	13:00	20.2	7.96	27.2	6.2	4.3	13.3
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	CS6	Bottom	3	2	13:00	20.3	7.97	27.2	6.15	4.33	14
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS12	Surface	1	1	11:22	20.1	7.98	27	6.5	2.43	8.6
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS12	Surface	1	2	11:22	20.1	7.98	27	6.54	2.49	9.6
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS12	Middle	2	1	11:22	20.3	7.99	27.1	6.17	3.63	10.8
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS12	Middle	2	2	11:22	20.3	7.98	27.1	6.15	3.6	10.3
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS12	Bottom	3	1	11:22	20.3	7.97	27.1	6.15	3.51	11.6
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS12	Bottom	3	2	11:22	20.3	7.98	27.2	6.11	3.59	11.1
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS13	Surface	1	1	11:41	20.1	7.98	27	6.26	2.76	6.7
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS13	Surface	1	2	11:41	20.1	7.98	27	6.23	2.72	6.8
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS13	Middle	2	1	11:41	20.2	7.97	27	6.15	3.17	9.8
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS13	Middle	2	2	11:41	20.1	7.97	27.1	6.19	3.19	8.1
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS13	Bottom	3	1	11:41	20.2	7.98	27.1	6.21	3.23	9.5
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS13	Bottom	3	2	11:41	20.2	7.97	27.2	6.17	3.28	9.2
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS14	Surface	1	1	11:02	20.1	7.98	27	6.29	2.89	10.1

TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS14	Surface	1	2	11:02	20.1	7.98	27	6.26	2.94	10.2
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS14	Middle	2	1	11:02	20.2	7.98	27.1	6.2	2.32	9.3
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS14	Middle	2	2	11:02	20.3	7.99	27	6.24	2.36	9.6
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS14	Bottom	3	1	11:02	20.3	7.97	27.1	6.16	2.59	10.7
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS14	Bottom	3	2	11:02	20.3	7.97	27.1	6.13	2.63	11.6
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS15	Surface	1	1	12:01	20.1	7.99	27	6.34	2.66	8.3
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS15	Surface	1	2	12:01	20.1	7.98	27	6.31	2.69	10
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS15	Middle	2	1	12:01	20.2	7.98	27.1	6.29	2.78	9.3
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS15	Middle	2	2	12:01	20.2	7.97	27.1	6.26	2.71	9.7
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS15	Bottom	3	1	12:01	20.2	7.99	27.1	6.27	2.78	10.3
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	IS15	Bottom	3	2	12:01	20.2	7.99	27.1	6.24	2.85	10.8
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	SR8	Surface	1	1	12:42	20.1	7.96	27	6.33	2.36	10.9
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	SR8	Surface	1	2	12:42	20.1	7.97	27	6.3	2.41	11.1
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	SR8	Middle	2	1	12:42						
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	SR8	Middle	2	2	12:42						
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	SR8	Bottom	3	1	12:42	20.2	7.99	27.1	6.27	3	15.3
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	SR8	Bottom	3	2	12:42	20.2	7.98	27.1	6.25	3.06	16.5
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	SR9	Surface	1	1	12:20	20	7.98	27	6.27	2.64	6.1
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	SR9	Surface	1	2	12:20	20.1	7.97	27	6.3	2.68	7.6
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	SR9	Middle	2	1	12:20						
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	SR9	Middle	2	2	12:20						
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	SR9	Bottom	3	1	12:20	20.1	7.98	27	6.15	2.51	9.3
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	SR9	Bottom	3	2	12:20	20.2	7.98	27.1	6.11	2.57	10
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	SR10a	Surface	1	1	13:35	20.1	7.96	27.1	6.45	4.65	9
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	SR10a	Surface	1	2	13:35	20.1	7.97	27	6.47	4.61	8.9
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	SR10a	Middle	2	1	13:35	20.2	7.98	27.1	6.31	2.86	13.5
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	SR10a	Middle	2	2	13:35	20.2	7.98	27.1	6.26	2.9	12.8
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	SR10a	Bottom	3	1	13:35	20.2	7.98	27.1	6.25	3.14	14.4
TMCLKL	HY/2012/08	2013-12-16	Mid-Ebb	Rainy	Small wave	SR10a	Bottom	3	2	13:35	20.3	7.97	27.2	6.28	3.08	14
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	CS4	Surface	1	1	20:11	19.8	7.7	26.1	6.39	4.26	6.5
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	CS4	Surface	1	2	20:11	19.7	7.72	26.1	6.41	4.19	6.8
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	CS4	Middle	2	1	20:11	19.9	7.74	26.3	6.48	2.7	5.8
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	CS4	Middle	2	2	20:11	20	7.75	26.2	6.5	3	7
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	CS4	Bottom	3	1	20:11	20.1	7.76	26.3	6.29	3.75	6.1
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	CS4	Bottom	3	2	20:11	20	7.74	26.3	6.32	3.89	7.5
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	CS6	Surface	1	1	16:57	20.2	7.61	26.2	6.5	5.73	7
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	CS6	Surface	1	2	16:57	20.2	7.62	26.3	6.46	5.68	7.3
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	CS6	Middle	2	1	16:57	20.2	7.6	26.4	6.53	3.12	5.9
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	CS6	Middle	2	2	16:57	20.3	7.61	26.3	6.55	3.2	6
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	CS6	Bottom	3	1	16:57	20.4	7.64	26.4	6.4	4.91	8.9
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	CS6	Bottom	3	2	16:57	20.3	7.65	26.4	6.38	4.8	8.3
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS12	Surface	1	1	19:15	19.9	7.62	26	6.36	3.82	4.4
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS12	Surface	1	2	19:15	19.8	7.63	26.1	6.39	3.93	6.4
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS12	Middle	2	1	19:15	19.9	7.65	26.2	6.47	6.07	6.2
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS12	Middle	2	2	19:15	20	7.66	26.1	6.44	5.85	6.2
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS12	Bottom	3	1	19:15	20.1	7.6	26.3	6.3	3.98	6.8
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS12	Bottom	3	2	19:15	20	7.61	26.3	6.28	3.79	7.7

TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS13	Surface	1	1	18:52	20.1	7.64	26.1	6.45	3.87	4.8
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS13	Surface	1	2	18:52	20	7.65	26.2	6.42	3.72	4.4
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS13	Middle	2	1	18:52	20.2	7.61	26.2	6.48	4.68	6.6
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS13	Middle	2	2	18:52	20.2	7.62	26.1	6.5	4.52	7.3
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS13	Bottom	3	1	18:52	20.3	7.66	26.2	6.37	4.02	8
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS13	Bottom	3	2	18:52	20.2	7.64	26.3	6.34	3.96	6.6
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS14	Surface	1	1	19:38	19.8	7.6	26.1	6.34	3.69	7.3
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS14	Surface	1	2	19:38	19.9	7.61	26.2	6.37	3.72	7.5
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS14	Middle	2	1	19:38	20	7.65	26.3	6.43	4.67	7
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS14	Middle	2	2	19:38	20.1	7.66	26.2	6.45	4.52	6.7
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS14	Bottom	3	1	19:38	20.2	7.64	26.3	6.28	3.05	6.7
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS14	Bottom	3	2	19:38	20.2	7.65	26.3	6.26	3.13	7.4
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS15	Surface	1	1	18:29	20	7.6	26.1	6.38	2.71	6.8
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS15	Surface	1	2	18:29	19.9	7.61	26.2	6.4	2.92	7.2
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS15	Middle	2	1	18:29	20.1	7.64	26.2	6.45	2.97	6.5
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS15	Middle	2	2	18:29	20	7.65	26.1	6.47	3.12	5.9
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS15	Bottom	3	1	18:29	20.1	7.58	26.2	6.31	4.73	7.6
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	IS15	Bottom	3	2	18:29	20.2	7.59	26.3	6.33	4.6	6.5
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	SR8	Surface	1	1	17:43	20.1	7.58	26.2	6.49	4.12	6.8
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	SR8	Surface	1	2	17:43	20	7.59	26.3	6.52	4.16	7.9
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	SR8	Middle	2	1	17:43						
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	SR8	Middle	2	2	17:43						
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	SR8	Bottom	3	1	17:43	20.2	7.61	26.3	6.55	4.93	8.6
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	SR8	Bottom	3	2	17:43	20.3	7.62	26.4	6.53	4.74	9.6
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	SR9	Surface	1	1	18:06	20.1	7.54	26.2	6.51	6.04	6.3
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	SR9	Surface	1	2	18:06	20.1	7.55	26.1	6.48	6.1	7
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	SR9	Middle	2	1	18:06						
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	SR9	Middle	2	2	18:06						
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	SR9	Bottom	3	1	18:06	20.2	7.57	26.3	6.46	5.64	6.5
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	SR9	Bottom	3	2	18:06	20.1	7.58	26.3	6.44	5.51	7
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	SR10a	Surface	1	1	17:20	20.3	7.67	26.2	6.41	5.11	5.8
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	SR10a	Surface	1	2	17:20	20.3	7.69	26.3	6.39	5.2	6.6
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	SR10a	Middle	2	1	17:20	20.3	7.7	26.3	6.46	2.72	5.7
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	SR10a	Middle	2	2	17:20	20.2	7.71	26.3	6.48	2.9	6.3
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	SR10a	Bottom	3	1	17:20	20.4	7.68	26.4	6.29	2.51	6.7
TMCLKL	HY/2012/08	2013-12-18	Mid-Flood	Fine	Small wave	SR10a	Bottom	3	2	17:20	20.4	7.69	26.3	6.3	2.65	6.5
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	CS4	Surface	1	1	11:45	19.9	7.67	26	6.33	4.35	6.8
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	CS4	Surface	1	2	11:45	19.8	7.69	25.9	6.35	4.28	7.9
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	CS4	Middle	2	1	11:45	20	7.71	26.1	6.42	2.79	6.2
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	CS4	Middle	2	2	11:45	20.1	7.72	26.2	6.44	3.09	6.7
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	CS4	Bottom	3	1	11:45	20.1	7.73	26.3	6.23	3.84	8
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	CS4	Bottom	3	2	11:45	20.2	7.71	26.2	6.26	3.98	8.3
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	CS6	Surface	1	1	15:04	20.3	7.58	26.2	6.44	5.82	7.2
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	CS6	Surface	1	2	15:04	20.2	7.59	26.1	6.4	5.77	7.9
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	CS6	Middle	2	1	15:04	20.3	7.57	26.3	6.47	3.21	6.2
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	CS6	Middle	2	2	15:04	20.3	7.58	26.2	6.49	3.29	6.6
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	CS6	Bottom	3	1	15:04	20.3	7.61	26.3	6.34	5	6.7

TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	CS6	Bottom	3	2	15:04	20.4	7.62	26.4	6.32	4.89	7.8
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS12	Surface	1	1	12:31	20	7.59	25.9	6.3	3.91	5.7
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS12	Surface	1	2	12:31	19.9	7.6	26	6.33	4.02	7
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS12	Middle	2	1	12:31	20.1	7.62	26.1	6.41	6.16	7.5
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS12	Middle	2	2	12:31	20.1	7.63	26	6.38	5.94	7.4
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS12	Bottom	3	1	12:31	20.2	7.57	26.2	6.24	4.07	8.6
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS12	Bottom	3	2	12:31	20.1	7.58	26.3	6.22	3.88	9.1
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS13	Surface	1	1	12:54	20.2	7.61	26.1	6.39	3.96	7.2
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS13	Surface	1	2	12:54	20.2	7.62	26.2	6.36	3.81	6.9
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS13	Middle	2	1	12:54	20.3	7.58	26.3	6.42	4.77	7.1
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS13	Middle	2	2	12:54	20.2	7.59	26.2	6.44	4.61	6.2
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS13	Bottom	3	1	12:54	20.3	7.63	26.3	6.31	4.11	7.1
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS13	Bottom	3	2	12:54	20.3	7.61	26.3	6.28	4.05	6.8
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS14	Surface	1	1	12:08	19.9	7.57	26	6.28	3.78	5.9
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS14	Surface	1	2	12:08	20	7.58	26.1	6.31	3.81	6.1
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS14	Middle	2	1	12:08	20.1	7.61	26.2	6.37	4.76	6.3
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS14	Middle	2	2	12:08	20.2	7.6	26.1	6.39	4.61	5.6
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS14	Bottom	3	1	12:08	20.2	7.61	26.4	6.22	3.14	8.3
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS14	Bottom	3	2	12:08	20.3	7.62	26.3	6.2	3.22	8
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS15	Surface	1	1	13:17	20.1	7.57	26.1	6.32	2.8	6.8
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS15	Surface	1	2	13:17	20	7.58	26.1	6.34	3.01	7.2
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS15	Middle	2	1	13:17	20.2	7.61	26.3	6.39	3.06	5.8
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS15	Middle	2	2	13:17	20.2	7.62	26.2	6.41	3.21	6.1
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS15	Bottom	3	1	13:17	20.3	7.55	26.4	6.25	4.82	7.1
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	IS15	Bottom	3	2	13:17	20.2	7.56	26.3	6.27	4.69	6.5
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	SR8	Surface	1	1	14:03	20.2	7.55	26.1	6.43	4.21	6.4
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	SR8	Surface	1	2	14:03	20.1	7.56	26.2	6.46	4.25	7.5
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	SR8	Middle	2	1	14:03						
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	SR8	Middle	2	2	14:03						
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	SR8	Bottom	3	1	14:03	20.3	7.58	26.3	6.49	5.02	9.5
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	SR8	Bottom	3	2	14:03	20.4	7.59	26.3	6.47	4.83	7.9
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	SR9	Surface	1	1	13:40	20.1	7.51	26.2	6.45	6.31	7.7
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	SR9	Surface	1	2	13:40	20.2	7.52	26.2	6.42	6.19	8.3
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	SR9	Middle	2	1	13:40						
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	SR9	Middle	2	2	13:40						
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	SR9	Bottom	3	1	13:40	20.2	7.54	26.3	6.4	5.73	8.2
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	SR9	Bottom	3	2	13:40	20.3	7.55	26.2	6.38	5.6	7.4
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	SR10a	Surface	1	1	14:26	20.2	7.64	26.2	6.35	5.2	8.7
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	SR10a	Surface	1	2	14:26	20.3	7.66	26.3	6.33	5.29	8.3
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	SR10a	Middle	2	1	14:26	20.3	7.67	26.4	6.4	2.81	9.4
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	SR10a	Middle	2	2	14:26	20.4	7.68	26.3	6.42	2.99	8.5
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	SR10a	Bottom	3	1	14:26	20.4	7.65	26.4	6.23	2.6	8.4
TMCLKL	HY/2012/08	2013-12-18	Mid-Ebb	Fine	Small wave	SR10a	Bottom	3	2	14:26	20.3	7.66	26.4	6.24	2.74	8.4
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	CS4	Surface	1	1	11:05	19.5	7.66	26.1	6.39	5.67	5.4
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	CS4	Surface	1	2	11:05	19.5	7.68	26.1	6.41	5.7	4.6
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	CS4	Middle	2	1	11:05	19.7	7.69	26.3	6.34	6.19	7.4
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	CS4	Middle	2	2	11:05	19.6	7.71	26.2	6.32	6.22	6.8

TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	CS4	Bottom	3	1	11:05	19.8	7.73	26.5	6.26	6.69	5.6
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	CS4	Bottom	3	2	11:05	19.9	7.75	26.5	6.24	6.71	6
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	CS6	Surface	1	1	07:42	19.5	7.54	26	6.94	5.45	5
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	CS6	Surface	1	2	07:42	19.6	7.56	26.1	6.92	5.47	5.3
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	CS6	Middle	2	1	07:42	19.7	7.51	26.2	6.52	6.49	7.3
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	CS6	Middle	2	2	07:42	19.7	7.53	26.3	6.5	6.5	7.2
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	CS6	Bottom	3	1	07:42	19.8	7.59	26.5	6.44	6.93	6.8
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	CS6	Bottom	3	2	07:42	19.9	7.61	26.4	6.46	6.95	6.5
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS12	Surface	1	1	10:20	19.6	7.59	26	6.74	5.2	3.3
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS12	Surface	1	2	10:20	19.7	7.6	26	6.72	5.21	4.8
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS12	Middle	2	1	10:20	19.8	7.64	26.1	6.45	6.01	5.8
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS12	Middle	2	2	10:20	19.7	7.66	26.2	6.47	6.03	6.2
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS12	Bottom	3	1	10:20	19.9	7.58	26.3	6.33	7.31	6.4
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS12	Bottom	3	2	10:20	20	7.59	26.4	6.34	7.34	6.8
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS13	Surface	1	1	09:53	19.5	7.42	26	6.52	5.06	6.3
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS13	Surface	1	2	09:53	19.6	7.45	26.1	6.54	5.08	6.8
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS13	Middle	2	1	09:53	19.7	7.48	26.2	6.42	6.1	6.4
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS13	Middle	2	2	09:53	19.7	7.5	26.2	6.44	6.12	7.2
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS13	Bottom	3	1	09:53	19.8	7.57	26.3	6.37	6.15	7.4
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS13	Bottom	3	2	09:53	19.9	7.59	26.4	6.39	6.17	6.3
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS14	Surface	1	1	10:45	19.5	7.55	26.1	6.53	6.37	5.8
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS14	Surface	1	2	10:45	19.6	7.53	26	6.55	6.4	5.4
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS14	Middle	2	1	10:45	19.7	7.59	26.2	6.37	5.54	6.1
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS14	Middle	2	2	10:45	19.7	7.57	26.3	6.39	5.56	6
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS14	Bottom	3	1	10:45	19.8	7.46	26.4	6.27	5.17	7.1
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS14	Bottom	3	2	10:45	19.7	7.48	26.5	6.29	5.19	5.1
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS15	Surface	1	1	09:36	19.6	7.51	26.1	6.42	5.92	5.6
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS15	Surface	1	2	09:36	19.7	7.53	26.1	6.45	5.95	4.5
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS15	Middle	2	1	09:36	19.8	7.57	26.2	6.37	5.22	6.2
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS15	Middle	2	2	09:36	19.7	7.6	26.3	6.39	5.24	6.9
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS15	Bottom	3	1	09:36	19.9	7.49	26.4	6.29	6.47	5.9
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	IS15	Bottom	3	2	09:36	19.8	7.51	26.5	6.31	6.5	6.7
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	SR8	Surface	1	1	08:47	19.5	7.49	26	6.54	5.12	5.8
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	SR8	Surface	1	2	08:47	19.5	7.51	26.1	6.56	5.15	4.5
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	SR8	Middle	2	1	08:47						
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	SR8	Middle	2	2	08:47						
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	SR8	Bottom	3	1	08:47	19.7	7.61	26.2	6.43	5.65	6.2
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	SR8	Bottom	3	2	08:47	19.6	7.59	26.2	6.45	5.67	4.9
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	SR9	Surface	1	1	09:12	19.5	7.46	26.1	6.47	5.1	4.2
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	SR9	Surface	1	2	09:12	19.5	7.48	26	6.49	5.13	4.8
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	SR9	Middle	2	1	09:12						
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	SR9	Middle	2	2	09:12						
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	SR9	Bottom	3	1	09:12	19.6	7.52	26.3	6.39	6.02	5.4
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	SR9	Bottom	3	2	09:12	19.7	7.53	26.3	6.41	6.04	5.4
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	SR10a	Surface	1	1	08:14	19.4	7.61	26.1	6.39	5.71	6.8
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	SR10a	Surface	1	2	08:14	19.5	7.63	26.1	6.41	5.69	6.8
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	SR10a	Middle	2	1	08:14	19.7	7.74	26.3	6.44	5.86	6.7

TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	SR10a	Middle	2	2	08:14	19.6	7.76	26.2	6.4	5.9	5.3
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	SR10a	Bottom	3	1	08:14	19.8	7.78	26.4	6.34	6.19	6.4
TMCLKL	HY/2012/08	2013-12-20	Mid-Flood	Fine	Small wave	SR10a	Bottom	3	2	08:14	19.8	7.79	26.4	6.36	6.22	6.7
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	CS4	Surface	1	1	12:51	19.6	7.57	26	6.33	5.73	5.6
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	CS4	Surface	1	2	12:51	19.6	7.57	26	6.31	5.75	5.9
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	CS4	Middle	2	1	12:51	19.7	7.64	26.2	6.27	6.24	6.3
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	CS4	Middle	2	2	12:51	19.8	7.62	26.2	6.29	6.26	6
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	CS4	Bottom	3	1	12:51	19.9	7.64	26.5	6.19	6.74	6.6
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	CS4	Bottom	3	2	12:51	19.9	7.66	26.5	6.17	6.76	6.2
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	CS6	Surface	1	1	16:08	19.6	7.46	26.1	6.82	5.49	5.9
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	CS6	Surface	1	2	16:08	19.5	7.48	26.1	6.8	5.51	5.1
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	CS6	Middle	2	1	16:08	19.7	7.39	26.3	6.43	6.52	7.4
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	CS6	Middle	2	2	16:08	19.8	7.41	26.2	6.41	6.54	7.6
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	CS6	Bottom	3	1	16:08	19.9	7.62	26.4	6.33	6.96	7.4
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	CS6	Bottom	3	2	16:08	19.9	7.64	26.5	6.35	6.98	6.9
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	IS12	Surface	1	1	13:37	19.5	7.52	26.1	6.61	5.24	5.3
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	IS12	Surface	1	2	13:37	19.5	7.54	26	6.63	5.26	5.4
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	IS12	Middle	2	1	13:37	19.7	7.61	26.2	6.37	6.07	5.4
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	IS12	Middle	2	2	13:37	19.6	7.63	26.3	6.39	6.09	5.7
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	IS12	Bottom	3	1	13:37	19.9	7.49	26.4	6.27	7.37	6.8
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	IS12	Bottom	3	2	13:37	19.8	7.51	26.5	6.29	7.39	6.3
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	IS13	Surface	1	1	14:04	19.4	7.41	26.1	6.44	5.13	5.1
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	IS13	Surface	1	2	14:04	19.5	7.39	26.1	6.42	5.15	4.6
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	IS13	Middle	2	1	14:04	19.6	7.43	26.3	6.36	6.14	6.4
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	IS13	Middle	2	2	14:04	19.7	7.45	26.2	6.38	6.16	5.4
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	IS13	Bottom	3	1	14:04	19.8	7.52	26.4	6.32	6.19	7.6
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	IS13	Bottom	3	2	14:04	19.7	7.5	26.5	6.3	6.2	6.7
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	FIne	Small wave	IS14	Surface	1	1	13:11	19.5	7.42	26.1	6.47	6.43	6.1
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	FIne	Small wave	IS14	Surface	1	2	13:11	19.6	7.45	26.1	6.45	6.45	6.8
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	FIne	Small wave	IS14	Middle	2	1	13:11	19.7	7.62	26.3	6.33	5.59	5.3
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	FIne	Small wave	IS14	Middle	2	2	13:11	19.8	7.64	26.2	6.31	5.61	6.4
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	FIne	Small wave	IS14	Bottom	3	1	13:11	19.9	7.53	26.4	6.22	5.22	6.6
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	FIne	Small wave	IS14	Bottom	3	2	13:11	19.9	7.55	26.4	6.2	5.24	7.5
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	IS15	Surface	1	1	14:30	19.5	7.44	26	6.34	5.99	5.1
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	IS15	Surface	1	2	14:30	19.5	7.46	26.1	6.36	6.01	5.5
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	IS15	Middle	2	1	14:30	19.6	7.5	26.2	6.26	5.27	5.2
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	IS15	Middle	2	2	14:30	19.7	7.53	26.2	6.31	5.29	6
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	IS15	Bottom	3	1	14:30	19.8	7.42	26.3	6.22	6.53	7.1
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	IS15	Bottom	3	2	14:30	19.8	7.4	26.4	6.24	6.55	7
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	SR8	Surface	1	1	15:17	19.6	7.46	26.1	6.51	5.17	5
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	SR8	Surface	1	2	15:17	19.6	7.48	26.2	6.49	5.19	3.8
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	SR8	Middle	2	1	15:17						
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	SR8	Middle	2	2	15:17						
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	SR8	Bottom	3	1	15:17	19.9	7.54	26.3	6.37	5.73	5.9
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	SR8	Bottom	3	2	15:17	19.9	7.56	26.3	6.35	5.75	5
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	SR9	Surface	1	1	14:57	19.6	7.51	26	6.42	5.17	5.8
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	SR9	Surface	1	2	14:57	195	7.53	26	6.44	5.19	6.3

TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	SR9	Middle	2	1	14:57						
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	SR9	Middle	2	2	14:57						
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	SR9	Bottom	3	1	14:57	19.7	7.49	26.2	6.34	6.11	5
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	SR9	Bottom	3	2	14:57	19.7	7.47	26.3	6.32	6.13	5.1
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	SR10a	Surface	1	1	15:42	19.5	7.54	26	6.32	5.84	5
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	SR10a	Surface	1	2	15:42	19.5	7.56	26.1	6.3	5.86	5.2
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	SR10a	Middle	2	1	15:42	19.7	7.64	26.2	6.39	5.91	5.1
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	SR10a	Middle	2	2	15:42	19.6	7.66	26.2	6.41	5.93	6
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	SR10a	Bottom	3	1	15:42	19.8	7.7	26.3	6.27	6.24	5.9
TMCLKL	HY/2012/08	2013-12-20	Mid-Ebb	Fine	Small wave	SR10a	Bottom	3	2	15:42	19.9	7.68	26.4	6.25	6.26	6.2
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	CS4	Surface	1	1	12:25	19.4	7.57	26.2	6.3	6.47	3
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	CS4	Surface	1	2	12:25	19.3	7.59	26.2	6.32	6.35	2
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	CS4	Middle	2	1	12:25	19.6	7.6	26.3	6.25	4.49	3
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	CS4	Middle	2	2	12:25	19.5	7.62	26.4	6.23	4.37	2.5
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	CS4	Bottom	3	1	12:25	19.7	7.64	26.5	6.17	4.29	2.9
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	CS4	Bottom	3	2	12:25	19.8	7.66	26.4	6.15	4.31	2.5
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	CS6	Surface	1	1	09:21	19.4	7.45	26.1	6.85	3.66	3.2
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	CS6	Surface	1	2	09:21	19.5	7.47	26.2	6.83	3.79	3.2
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	CS6	Middle	2	1	09:21	19.6	7.42	26.4	6.43	5.02	2.4
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	CS6	Middle	2	2	09:21	19.5	7.44	26.3	6.41	4.89	3.3
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	CS6	Bottom	3	1	09:21	19.7	7.5	26.4	6.35	4.77	2.2
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	CS6	Bottom	3	2	09:21	19.8	7.52	26.5	6.37	4.85	3.2
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS12	Surface	1	1	11:29	19.6	7.5	26.1	6.65	3.41	2.4
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS12	Surface	1	2	11:29	19.5	7.51	26	6.63	3.58	2.5
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS12	Middle	2	1	11:29	19.7	7.55	26.2	6.36	4.35	3
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS12	Middle	2	2	11:29	19.7	7.57	26.3	6.38	4.29	2.5
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS12	Bottom	3	1	11:29	20	7.49	26.3	6.24	4.06	2.9
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS12	Bottom	3	2	11:29	19.9	7.5	26.4	6.25	4.14	2.3
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS13	Surface	1	1	11:06	19.5	7.33	26.2	6.43	4.38	2.5
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS13	Surface	1	2	11:06	19.5	7.36	26.2	6.45	4.44	3.1
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS13	Middle	2	1	11:06	19.7	7.39	26.3	6.33	4.89	3
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS13	Middle	2	2	11:06	19.6	7.41	26.2	6.35	4.75	3.1
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS13	Bottom	3	1	11:06	19.7	7.48	26.3	6.28	4.23	3.3
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS13	Bottom	3	2	11:06	19.8	7.5	26.4	6.3	4.4	3
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS14	Surface	1	1	11:52	19.5	7.46	26.1	6.44	4.34	2.1
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS14	Surface	1	2	11:52	19.5	7.44	26.2	6.46	4.4	3.2
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS14	Middle	2	1	11:52	19.6	7.5	26.3	6.28	3.91	2.9
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS14	Middle	2	2	11:52	19.7	7.48	26.2	6.3	3.87	3.4
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS14	Bottom	3	1	11:52	19.9	7.37	26.3	6.18	4.82	2.5
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS14	Bottom	3	2	11:52	19.8	7.39	26.4	6.2	4.91	2.7
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS15	Surface	1	1	10:53	19.5	7.42	26.1	6.33	3.86	2.4
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS15	Surface	1	2	10:53	19.6	7.44	26.2	6.36	3.99	2.3
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS15	Middle	2	1	10:53	19.7	7.48	26.3	6.28	4.45	2.9
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS15	Middle	2	2	10:53	19.8	7.51	26.4	6.3	4.33	2.9
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS15	Bottom	3	1	10:53	19.9	7.4	26.5	6.2	3.9	3.5
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	IS15	Bottom	3	2	10:53	19.8	7.42	26.4	6.22	3.82	2.5
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	SR8	Surface	1	1	10:07	19.4	7.4	26.2	6.45	4.73	3.8

TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	SR8	Surface	1	2	10:07	19.3	7.42	26.3	6.47	4.88	4.4
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	SR8	Middle	2	1	10:07						
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	SR8	Middle	2	2	10:07						
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	SR8	Bottom	3	1	10:07	19.6	7.52	26.4	6.34	5.44	4.5
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	SR8	Bottom	3	2	10:07	19.5	7.5	26.3	6.36	5.58	5.2
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	SR9	Surface	1	1	10:30	19.4	7.37	26.2	6.38	4.5	4.3
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	SR9	Surface	1	2	10:30	19.3	7.39	26.3	6.35	4.62	4.5
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	SR9	Middle	2	1	10:30						
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	SR9	Middle	2	2	10:30						
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	SR9	Bottom	3	1	10:30	19.4	7.43	26.3	6.3	4.83	4.7
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	SR9	Bottom	3	2	10:30	19.5	7.45	26.4	6.32	4.71	4.7
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	SR10a	Surface	1	1	09:44	19.3	7.52	26.2	6.3	4.44	2.6
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	SR10a	Surface	1	2	09:44	19.4	7.54	26.1	6.32	4.56	3.7
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	SR10a	Middle	2	1	09:44	19.6	7.65	26.2	6.35	4.81	3.1
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	SR10a	Middle	2	2	09:44	19.5	7.68	26.3	6.38	4.75	2.9
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	SR10a	Bottom	3	1	09:44	19.7	7.69	26.5	6.25	4.37	3.1
TMCLKL	HY/2012/08	2013-12-23	Mid-Flood	Fine	Small wave	SR10a	Bottom	3	2	09:44	19.7	7.7	26.4	6.27	4.49	2.6
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	CS4	Surface	1	1	14:47	19.5	7.62	26.3	6.24	6.56	2.9
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	CS4	Surface	1	2	14:47	19.4	7.64	26.2	6.26	6.44	2.3
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	CS4	Middle	2	1	14:47	19.6	7.65	26.5	6.19	4.58	3
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	CS4	Middle	2	2	14:47	19.6	7.67	26.5	6.17	4.46	2.5
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	CS4	Bottom	3	1	14:47	19.7	7.69	26.6	6.11	4.38	2.9
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	CS4	Bottom	3	2	14:47	19.6	7.71	26.5	6.09	4.4	2.6
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	CS6	Surface	1	1	17:56	19.3	7.5	26.2	6.79	3.75	2.9
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	CS6	Surface	1	2	17:56	19.4	7.52	26.3	6.77	3.88	2.6
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	CS6	Middle	2	1	17:56	19.4	7.47	26.4	6.37	5.11	2.9
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	CS6	Middle	2	2	17:56	19.5	7.49	26.3	6.35	4.98	2.8
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	CS6	Bottom	3	1	17:56	19.7	7.55	26.4	6.29	4.86	3.6
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	CS6	Bottom	3	2	17:56	19.7	7.57	26.5	6.31	4.94	3.3
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS12	Surface	1	1	15:33	19.5	7.56	26.1	6.59	3.5	3.3
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS12	Surface	1	2	15:33	19.6	7.57	26.2	6.57	3.67	3.6
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS12	Middle	2	1	15:33	19.7	7.61	26.2	6.3	4.44	3.2
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS12	Middle	2	2	15:33	19.8	7.63	26.3	6.32	4.38	3.3
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS12	Bottom	3	1	15:33	19.9	7.55	26.4	6.18	4.15	4.3
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS12	Bottom	3	2	15:33	19.9	7.56	26.4	6.19	4.23	3.1
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS13	Surface	1	1	15:56	19.4	7.38	26.3	6.37	4.47	2.2
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS13	Surface	1	2	15:56	19.5	7.41	26.2	6.39	4.53	2.8
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS13	Middle	2	1	15:56	19.6	7.44	26.4	6.27	4.98	4.2
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS13	Middle	2	2	15:56	19.5	7.46	26.4	6.29	4.84	3.1
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS13	Bottom	3	1	15:56	19.8	7.53	26.5	6.22	4.32	3.2
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS13	Bottom	3	2	15:56	19.7	7.55	26.4	6.24	4.49	3.8
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS14	Surface	1	1	15:10	19.6	7.51	26.2	6.38	4.43	2.4
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS14	Surface	1	2	15:10	19.5	7.49	26.1	6.4	4.49	3
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS14	Middle	2	1	15:10	19.7	7.55	26.4	6.22	4	2.5
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS14	Middle	2	2	15:10	19.6	7.53	26.3	6.24	3.96	2.9
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS14	Bottom	3	1	15:10	19.8	7.42	26.4	6.12	4.93	2.6
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS14	Bottom	3	2	15:10	19.8	7.44	26.5	6.14	5	2.7

TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS15	Surface	1	1	16:19	19.4	7.47	26.2	6.27	3.95	2.3
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS15	Surface	1	2	16:19	19.4	7.49	26.2	6.3	4.08	3
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS15	Middle	2	1	16:19	19.6	7.53	26.2	6.22	4.51	2.7
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS15	Middle	2	2	16:19	19.7	7.56	26.3	6.24	4.42	3.7
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS15	Bottom	3	1	16:19	19.8	7.45	26.4	6.14	3.99	2.7
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	IS15	Bottom	3	2	16:19	19.7	7.47	26.5	6.16	3.91	2.9
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	SR8	Surface	1	1	17:05	19.4	7.45	26.4	6.39	4.82	4.5
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	SR8	Surface	1	2	17:05	19.4	7.47	26.4	6.41	4.97	3.9
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	SR8	Middle	2	1	17:05						
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	SR8	Middle	2	2	17:05						
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	SR8	Bottom	3	1	17:05	19.5	7.57	26.4	6.28	5.53	4.2
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	SR8	Bottom	3	2	17:05	19.6	7.55	26.5	6.3	5.67	4.6
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	SR9	Surface	1	1	16:12	19.3	7.42	26.2	6.32	4.59	4.4
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	SR9	Surface	1	2	16:12	19.2	7.44	26.3	6.29	4.71	3.7
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	SR9	Middle	2	1	16:12						
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	SR9	Middle	2	2	16:12						
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	SR9	Bottom	3	1	16:12	19.4	7.48	26.3	6.24	4.92	4.3
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	SR9	Bottom	3	2	16:12	19.4	7.5	26.4	6.26	4.8	5.8
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	SR10a	Surface	1	1	17:28	19.3	7.57	26.2	6.24	4.53	2.3
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	SR10a	Surface	1	2	17:28	19.2	7.59	26.3	6.26	4.65	2.3
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	SR10a	Middle	2	1	17:28	19.4	7.7	26.4	6.29	4.9	2.1
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	SR10a	Middle	2	2	17:28	19.5	7.73	26.3	6.32	4.84	3.5
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	SR10a	Bottom	3	1	17:28	19.5	7.74	26.4	6.18	4.46	2.7
TMCLKL	HY/2012/08	2013-12-23	Mid-Ebb	Fine	Small wave	SR10a	Bottom	3	2	17:28	19.6	7.75	26.5	6.21	4.58	3.8
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	CS4	Surface	1	1	14:00	19.3	7.9	26.3	6.85	4.09	4.2
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	CS4	Surface	1	2	14:00	19.3	7.9	26.3	6.88	4.05	3.5
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	CS4	Middle	2	1	14:00	19.4	7.91	26.5	6.73	3.41	3
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	CS4	Middle	2	2	14:00	19.3	7.91	26.6	6.69	3.48	3
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	CS4	Bottom	3	1	14:00	19.4	7.91	26.6	6.53	3.82	3.6
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	CS4	Bottom	3	2	14:00	19.4	7.9	26.6	6.5	3.87	4.6
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	CS6	Surface	1	1	10:46	19.2	7.87	26.3	6.74	3.75	4
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	CS6	Surface	1	2	10:46	19.2	7.88	26.3	6.7	3.83	2.9
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	CS6	Middle	2	1	10:46	19.3	7.86	26.4	6.6	3.44	3.7
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	CS6	Middle	2	2	10:46	19.3	7.87	26.4	6.57	3.53	3.4
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	CS6	Bottom	3	1	10:46	19.3	7.88	26.4	6.53	3.61	3.4
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	CS6	Bottom	3	2	10:46	19.3	7.88	26.5	6.5	3.67	3
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS12	Surface	1	1	13:00	19.3	7.9	26.3	6.81	4.82	3.6
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS12	Surface	1	2	13:00	19.3	7.9	26.4	6.78	4.89	2.4
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS12	Middle	2	1	13:00	19.3	7.9	26.5	6.64	3.62	3.3
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS12	Middle	2	2	13:00	19.3	7.91	26.5	6.6	3.69	3.9
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS12	Bottom	3	1	13:00	19.4	7.91	26.5	6.59	3.51	3.1
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS12	Bottom	3	2	13:00	19.3	7.91	26.4	6.57	3.57	2.8
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS13	Surface	1	1	12:40	19.3	7.9	26.3	6.75	4.21	2.8
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS13	Surface	1	2	12:40	19.3	7.9	26.3	6.77	4.28	2.7
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS13	Middle	2	1	12:40	19.4	7.89	26.4	6.58	3.97	2.4
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS13	Middle	2	2	12:40	19.4	7.9	26.3	6.55	4.04	2.4
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS13	Bottom	3	1	12:40	19.4	7.9	26.4	6.43	3.41	3.8

TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS13	Bottom	3	2	12:40	19.4	7.9	26.4	6.45	3.48	3.6
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS14	Surface	1	1	13:20	19.3	7.9	26.3	6.77	3.73	3.3
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS14	Surface	1	2	13:20	19.2	7.89	26.3	6.74	3.7	3.9
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS14	Middle	2	1	13:20	19.4	7.9	26.5	6.69	3.91	3.4
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS14	Middle	2	2	13:20	19.4	7.9	26.5	6.73	3.97	4.4
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS14	Bottom	3	1	13:20	19.4	7.9	26.6	6.51	3.43	3.5
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS14	Bottom	3	2	13:20	19.4	7.91	26.5	6.54	3.48	4.1
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS15	Surface	1	1	12:21	19.3	7.9	26.3	6.7	4.29	4
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS15	Surface	1	2	12:21	19.3	7.9	26.3	6.66	4.25	3.8
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS15	Middle	2	1	12:21	19.4	7.9	26.4	6.52	3.51	4.1
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS15	Middle	2	2	12:21	19.3	7.91	26.4	6.49	3.59	3.6
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS15	Bottom	3	1	12:21	19.4	7.91	26.4	6.47	3.36	3.5
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	IS15	Bottom	3	2	12:21	19.4	7.91	26.4	6.44	3.42	3.8
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	SR8	Surface	1	1	11:46	19.3	7.89	26.3	6.71	6.06	5.7
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	SR8	Surface	1	2	11:46	19.3	7.88	26.2	6.74	6.13	5.7
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	SR8	Middle	2	1	11:46						
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	SR8	Middle	2	2	11:46						
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	SR8	Bottom	3	1	11:46	19.3	7.88	26.4	6.61	5.28	4.7
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	SR8	Bottom	3	2	11:46	19.3	7.87	26.4	6.56	5.33	4.5
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	SR9	Surface	1	1	12:06	19.3	7.89	26.3	6.64	5.25	5
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	SR9	Surface	1	2	12:06	19.3	7.9	26.3	6.6	5.31	6.4
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	SR9	Middle	2	1	12:06						
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	SR9	Middle	2	2	12:06						
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	SR9	Bottom	3	1	12:06	19.2	7.88	26.4	6.53	5.52	5.1
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	SR9	Bottom	3	2	12:06	19.3	7.89	26.4	6.5	5.59	5.7
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	SR10a	Surface	1	1	11:16	19.2	7.88	26.3	6.82	3.9	3.2
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	SR10a	Surface	1	2	11:16	19.3	7.87	26.3	6.79	3.95	4.1
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	SR10a	Middle	2	1	11:16	19.3	7.88	26.4	6.49	3.33	3.5
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	SR10a	Middle	2	2	11:16	19.3	7.88	26.4	6.46	3.39	4
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	SR10a	Bottom	3	1	11:16	19.2	7.89	26.4	6.55	3.58	3.3
TMCLKL	HY/2012/08	2013-12-25	Mid-Flood	Fine	Small wave	SR10a	Bottom	3	2	11:16	19.3	7.89	26.4	6.51	3.63	3.2
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	CS4	Surface	1	1	16:54	19.3	7.93	26.4	6.79	4.17	3.9
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	CS4	Surface	1	2	16:54	19.4	7.93	26.4	6.82	4.13	3.2
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	CS4	Middle	2	1	16:54	19.5	7.94	26.5	6.67	3.49	3.1
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	CS4	Middle	2	2	16:54	19.6	7.95	26.4	6.63	3.56	2.5
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	CS4	Bottom	3	1	16:54	19.5	7.95	26.5	6.47	3.9	3.2
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	CS4	Bottom	3	2	16:54	19.6	7.96	26.6	6.44	3.95	2.1
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	CS6	Surface	1	1	20:05	19.3	7.9	26.3	6.68	3.83	3.2
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	CS6	Surface	1	2	20:05	19.2	7.91	26.4	6.64	3.91	2.8
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	CS6	Middle	2	1	20:05	19.4	7.89	26.5	6.54	3.52	3.5
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	CS6	Middle	2	2	20:05	19.3	7.91	26.4	6.51	3.61	2.6
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	CS6	Bottom	3	1	20:05	19.5	7.92	26.5	6.47	3.69	4
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	CS6	Bottom	3	2	20:05	19.5	7.91	26.6	6.44	3.75	3.7
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS12	Surface	1	1	17:42	19.3	7.93	26.2	6.75	4.9	3.6
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS12	Surface	1	2	17:42	19.4	7.92	26.3	6.72	4.97	3.9
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS12	Middle	2	1	17:42	19.4	7.93	26.3	6.58	3.7	4.9

TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS12	Middle	2	2	17:42	19.3	7.94	26.4	6.54	3.77	3.2
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS12	Bottom	3	1	17:42	19.4	7.94	26.4	6.53	3.59	3.1
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS12	Bottom	3	2	17:42	19.5	7.94	26.4	6.51	3.65	3
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS13	Surface	1	1	18:05	19.3	7.93	26.2	6.69	4.29	4.8
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS13	Surface	1	2	18:05	19.3	7.92	26.3	6.71	4.36	3.8
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS13	Middle	2	1	18:05	19.4	7.92	26.4	6.52	4.05	3.2
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS13	Middle	2	2	18:05	19.3	7.93	26.4	6.49	4.12	3.5
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS13	Bottom	3	1	18:05	19.4	7.93	26.4	6.37	3.49	3.6
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS13	Bottom	3	2	18:05	19.5	7.94	26.3	6.39	3.56	4
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS14	Surface	1	1	17:18	19.3	7.93	26.3	6.71	3.81	3.8
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS14	Surface	1	2	17:18	19.2	7.92	26.4	6.68	3.78	4.3
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS14	Middle	2	1	17:18	19.3	7.93	26.5	6.63	3.99	2.8
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS14	Middle	2	2	17:18	19.3	7.93	26.6	6.67	4.05	3.3
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS14	Bottom	3	1	17:18	19.4	7.93	26.6	6.45	3.51	4
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS14	Bottom	3	2	17:18	19.4	7.94	26.7	6.48	3.56	3.1
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS15	Surface	1	1	18:29	19.3	7.93	26.2	6.64	4.37	2.9
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS15	Surface	1	2	18:29	19.2	7.93	26.1	6.6	4.33	4
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS15	Middle	2	1	18:29	19.3	7.93	26.3	6.46	3.6	4.6
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS15	Middle	2	2	18:29	19.3	7.94	26.2	6.43	3.67	4.7
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS15	Bottom	3	1	18:29	19.3	7.94	26.4	6.41	3.44	3.7
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	IS15	Bottom	3	2	18:29	19.4	7.95	26.5	6.38	3.5	3.3
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	SR8	Surface	1	1	19:15	19.3	7.92	26.2	6.65	6.14	4.5
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	SR8	Surface	1	2	19:15	19.2	7.91	26	6.68	6.21	4.2
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	SR8	Middle	2	1	19:15						
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	SR8	Middle	2	2	19:15						
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	SR8	Bottom	3	1	19:15	19.4	7.91	26.3	6.55	5.36	5.3
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	SR8	Bottom	3	2	19:15	19.4	7.9	26.4	6.5	5.41	4
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	SR9	Surface	1	1	18:52	19.4	7.92	26.3	6.58	5.33	4.1
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	SR9	Surface	1	2	18:52	19.3	7.93	26.2	6.54	5.39	5.1
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	SR9	Middle	2	1	18:52						
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	SR9	Middle	2	2	18:52						
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	SR9	Bottom	3	1	18:52	19.5	7.91	26.4	6.47	5.6	5.3
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	SR9	Bottom	3	2	18:52	19.4	7.92	26.3	6.44	5.67	4.9
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	SR10a	Surface	1	1	19:38	19.2	7.91	26.2	6.76	3.98	3.3
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	SR10a	Surface	1	2	19:38	19.2	7.9	26.3	6.73	4.03	2.9
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	SR10a	Middle	2	1	19:38	19.3	7.91	26.4	6.43	3.41	4
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	SR10a	Middle	2	2	19:38	19.4	7.92	26.5	6.4	3.47	4.3
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	SR10a	Bottom	3	1	19:38	19.4	7.92	26.5	6.49	3.66	4.4
TMCLKL	HY/2012/08	2013-12-25	Mid-Ebb	Fine	Small wave	SR10a	Bottom	3	2	19:38	19.3	7.93	26.4	6.45	3.71	4.1
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	CS4	Surface	1	1	15:31	19.1	7.86	26.1	6.87	2.58	2.8
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	CS4	Surface	1	2	15:31	19	7.85	26.2	6.9	2.61	2.4
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	CS4	Middle	2	1	15:31	19.2	7.88	26.2	6.84	2.88	2.5
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	CS4	Middle	2	2	15:31	19.1	7.87	26.3	6.8	2.91	2.9
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	CS4	Bottom	3	1	15:31	19.3	7.89	26.4	6.64	3.72	3.1
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	CS4	Bottom	3	2	15:31	19.3	7.88	26.3	6.61	3.85	2.6
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	CS6	Surface	1	1	12:20	19	7.83	26.1	6.86	3.05	2.6

TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	CS6	Surface	1	2	12:20	19.1	7.84	26	6.82	3.12	2.5
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	CS6	Middle	2	1	12:20	19.1	7.82	26.2	6.72	3.25	2.7
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	CS6	Middle	2	2	12:20	19.1	7.83	26.1	6.69	3.19	2.8
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	CS6	Bottom	3	1	12:20	19.2	7.84	26.3	6.65	2.81	2.2
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	CS6	Bottom	3	2	12:20	19.1	7.85	26.2	6.62	2.99	2.3
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS12	Surface	1	1	14:43	19.2	7.86	26.2	6.93	2.87	3.1
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS12	Surface	1	2	14:43	19.1	7.85	26.1	6.9	2.95	2.6
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS12	Middle	2	1	14:43	19.2	7.86	26.2	6.76	4.11	2.9
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS12	Middle	2	2	14:43	19.3	7.87	26.2	6.72	4.09	2.6
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS12	Bottom	3	1	14:43	19.3	7.87	26.3	6.71	2.62	2.3
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS12	Bottom	3	2	14:43	19.3	7.88	26.4	6.69	2.76	2.7
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS13	Surface	1	1	14:19	19.1	7.86	26.1	6.87	2.72	2.6
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS13	Surface	1	2	14:19	19	7.85	26	6.89	2.86	2.6
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS13	Middle	2	1	14:19	19.2	7.85	26.2	6.7	3.2	3.1
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS13	Middle	2	2	14:19	19.1	7.86	26.2	6.67	3.17	3.3
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS13	Bottom	3	1	14:19	19.2	7.87	26.3	6.55	3.54	3.4
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS13	Bottom	3	2	14:19	19.3	7.86	26.2	6.57	3.66	3.3
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS14	Surface	1	1	15:05	19.1	7.86	26.1	6.89	2.45	2.4
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS14	Surface	1	2	15:05	19.1	7.85	26	6.86	2.54	2.3
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS14	Middle	2	1	15:05	19.2	7.86	26.2	6.81	3.19	3.1
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS14	Middle	2	2	15:05	19.1	7.87	26.3	6.85	3.15	3.6
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS14	Bottom	3	1	15:05	19.2	7.86	26.4	6.63	3.46	2.7
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS14	Bottom	3	2	15:05	19.3	7.87	26.4	6.66	3.55	2.7
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS15	Surface	1	1	13:55	19.1	7.86	26	6.82	2.68	2.9
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS15	Surface	1	2	13:55	19.1	7.85	26.1	6.78	2.74	3.3
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS15	Middle	2	1	13:55	19.2	7.86	26.2	6.64	2.89	3.5
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS15	Middle	2	2	13:55	19.1	7.87	26.3	6.61	2.8	2.8
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS15	Bottom	3	1	13:55	19.3	7.88	26.4	6.59	2.97	2.8
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	IS15	Bottom	3	2	13:55	19.4	7.89	26.3	6.56	2.99	3
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	SR8	Surface	1	1	13:08	19.1	7.85	26.1	6.83	2.98	2.9
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	SR8	Surface	1	2	13:08	19.1	7.84	26	6.86	3.08	2.7
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	SR8	Middle	2	1	13:08						
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	SR8	Middle	2	2	13:08						
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	SR8	Bottom	3	1	13:08	19.2	7.84	26.2	6.73	2.81	2.7
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	SR8	Bottom	3	2	13:08	19.3	7.83	26.2	6.68	2.73	2.7
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	SR9	Surface	1	1	13:32	19	7.85	26.1	6.66	2.7	2.8
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	SR9	Surface	1	2	13:32	19.1	7.86	26.2	6.72	2.83	2.9
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	SR9	Middle	2	1	13:32						
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	SR9	Middle	2	2	13:32						
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	SR9	Bottom	3	1	13:32	19.1	7.85	26.3	6.65	2.97	2.8
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	SR9	Bottom	3	2	13:32	19.2	7.84	26.3	6.62	3.01	2.8
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	SR10a	Surface	1	1	12:44	19	7.84	26.2	6.94	2.6	2.1
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	SR10a	Surface	1	2	12:44	18.9	7.83	26.2	6.91	2.73	2.7
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	SR10a	Middle	2	1	12:44	19.1	7.84	26.2	6.61	3.58	3.2
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	SR10a	Middle	2	2	12:44	19.2	7.85	26.3	6.58	3.65	2.4
TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	SR10a	Bottom	3	1	12:44	19.2	7.86	26.3	6.67	2.77	2.9

TMCLKL	HY/2012/08	2013-12-27	Mid-Flood	Fine	Small wave	SR10a	Bottom	3	2	12:44	19.1	7.85	26.4	6.63	2.81	2.9
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	CS4	Surface	1	1	19:19	19.2	7.81	26.2	6.82	2.67	2.5
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	CS4	Surface	1	2	19:19	19.1	7.8	26.3	6.85	2.7	2.8
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	CS4	Middle	2	1	19:19	19.3	7.83	26.5	6.79	2.97	3.7
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	CS4	Middle	2	2	19:19	19.3	7.82	26.4	6.75	3	2.7
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	CS4	Bottom	3	1	19:19	19.4	7.84	26.5	6.59	3.81	2.8
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	CS4	Bottom	3	2	19:19	19.3	7.84	26.6	6.56	3.94	2.3
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	CS6	Surface	1	1	22:32	19.1	7.78	26.2	6.8	3.14	2.8
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	CS6	Surface	1	2	22:32	19	7.79	26.2	6.76	3.21	2.2
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	CS6	Middle	2	1	22:32	19.1	7.77	26.3	6.66	3.34	2.2
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	CS6	Middle	2	2	22:32	19.2	7.78	26.2	6.63	3.28	3.5
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	CS6	Bottom	3	1	22:32	19.3	7.79	26.4	6.59	2.9	3.1
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	CS6	Bottom	3	2	22:32	19.4	7.8	26.5	6.56	3.08	2.9
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS12	Surface	1	1	20:07	19.2	7.81	26.3	6.87	2.96	2.9
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS12	Surface	1	2	20:07	19.3	7.81	26.2	6.84	3.04	2.5
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS12	Middle	2	1	20:07	19.3	7.81	26.3	6.7	4.2	3
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS12	Middle	2	2	20:07	19.2	7.82	26.4	6.66	4.18	2.5
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS12	Bottom	3	1	20:07	19.4	7.82	26.4	6.65	2.71	2.4
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS12	Bottom	3	2	20:07	19.3	7.83	26.5	6.63	2.85	2.7
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS13	Surface	1	1	20:31	19.2	7.81	26.2	6.81	2.81	2.8
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS13	Surface	1	2	20:31	19.1	7.8	26.1	6.83	2.95	3.7
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS13	Middle	2	1	20:31	19.2	7.8	26.2	6.64	3.29	3.2
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS13	Middle	2	2	20:31	19.3	7.81	26.3	6.61	3.26	3.1
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS13	Bottom	3	1	20:31	19.3	7.82	26.4	6.49	3.63	2.6
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS13	Bottom	3	2	20:31	19.2	7.81	26.3	6.51	3.75	2.9
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS14	Surface	1	1	19:43	19.1	7.81	26.2	6.83	2.54	2.7
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS14	Surface	1	2	19:43	19.2	7.8	26.2	6.8	2.63	3.2
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS14	Middle	2	1	19:43	19.3	7.81	26.3	6.75	3.28	3.1
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS14	Middle	2	2	19:43	19.2	7.82	26.4	6.79	3.24	3.3
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS14	Bottom	3	1	19:43	19.3	7.81	26.5	6.57	3.55	2.7
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS14	Bottom	3	2	19:43	19.3	7.82	26.4	6.6	3.64	2.1
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS15	Surface	1	1	20:55	19.2	7.81	26.2	6.76	2.77	2
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS15	Surface	1	2	20:55	19.2	7.81	26.2	6.72	2.83	2.8
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS15	Middle	2	1	20:55	19.3	7.81	26.3	6.58	2.98	2.6
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS15	Middle	2	2	20:55	19.2	7.82	26.2	6.55	2.89	2.7
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS15	Bottom	3	1	20:55	19.3	7.83	26.4	6.53	3.06	2.8
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	IS15	Bottom	3	2	20:55	19.4	7.84	26.5	6.5	3.08	3.2
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	SR8	Surface	1	1	21:43	19.2	7.8	26.2	6.77	3.07	2.4
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	SR8	Surface	1	2	21:43	19.1	7.79	26.1	6.8	3.17	2.3
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	SR8	Middle	2	1	21:43						
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	SR8	Middle	2	2	21:43						
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	SR8	Bottom	3	1	21:43	19.2	7.79	26.2	6.67	2.9	2.4
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	SR8	Bottom	3	2	21:43	19.3	7.78	26.3	6.62	2.82	2.8
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	SR9	Surface	1	1	21:19	19.1	7.8	26.2	6.6	2.79	2.6
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	SR9	Surface	1	2	21:19	19.2	7.81	26.3	6.66	2.92	2.3
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	SR9	Middle	2	1	21:19						

TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	SR9	Middle	2	2	21:19						
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	SR9	Bottom	3	1	21:19	19.4	7.79	26.3	6.59	3.06	2.4
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	SR9	Bottom	3	2	21:19	19.3	7.8	26.4	6.56	3.1	2.8
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	SR10a	Surface	1	1	22:06	19.1	7.79	26.2	6.88	2.69	2.4
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	SR10a	Surface	1	2	22:06	19.1	7.78	26.3	6.85	2.82	2.5
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	SR10a	Middle	2	1	22:06	19.2	7.79	26.3	6.55	3.67	2.2
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	SR10a	Middle	2	2	22:06	19.1	7.8	26.2	6.52	3.74	2.2
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	SR10a	Bottom	3	1	22:06	19.2	7.8	26.3	6.61	2.86	2.7
TMCLKL	HY/2012/08	2013-12-27	Mid-Ebb	Fine	Small wave	SR10a	Bottom	3	2	22:06	19.3	7.8	26.4	6.57	2.9	3.2
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	CS4	Surface	1	1	17:47	17.1	7.5	28.8	7.2	4.12	2.7
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	CS4	Surface	1	2	17:47	17.1	7.51	28.8	7.24	4.18	2.5
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	CS4	Middle	2	1	17:47	17.2	7.59	29	7	4.03	2.5
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	CS4	Middle	2	2	17:47	17.3	7.6	28.9	6.99	4	3.8
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	CS4	Bottom	3	1	17:47	17.4	7.39	29	6.81	4.05	2.8
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	CS4	Bottom	3	2	17:47	17.5	7.38	29	6.83	4.08	3.4
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	CS6	Surface	1	1	14:45	17.1	7.43	28.5	7.2	3.89	2.7
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	CS6	Surface	1	2	14:45	17.1	7.47	28.6	7.1	3.9	2.6
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	CS6	Middle	2	1	14:45	17.3	7.62	28.7	7.12	3.58	4.1
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	CS6	Middle	2	2	14:45	17.2	7.63	28.8	7.1	3.62	2.5
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	CS6	Bottom	3	1	14:45	17.3	7.82	28.9	6.94	3.99	2.7
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	CS6	Bottom	3	2	14:45	17.4	7.8	28.8	6.96	4.01	2.2
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS12	Surface	1	1	16:53	17	7.45	28.7	7.31	3.94	2.6
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS12	Surface	1	2	16:53	17.1	7.47	28.8	7.33	3.96	3.3
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS12	Middle	2	1	16:53	17.3	7.49	28.9	7.05	4.11	2.7
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS12	Middle	2	2	16:53	17.2	7.41	28.9	7.06	4.13	3.2
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS12	Bottom	3	1	16:53	17.4	7.5	28.9	6.8	3.84	2.7
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS12	Bottom	3	2	16:53	17.3	7.54	29	6.84	3.8	3.3
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS13	Surface	1	1	16:35	17.1	7.35	28.5	6.97	3.85	3.2
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS13	Surface	1	2	16:35	17	7.37	28.6	6.93	3.88	3.1
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS13	Middle	2	1	16:35	17.2	7.48	28.7	7.18	3.99	2.6
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS13	Middle	2	2	16:35	17.3	7.42	28.8	7.2	4.01	2.3
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS13	Bottom	3	1	16:35	17.4	7.62	29	6.9	3.81	3.3
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS13	Bottom	3	2	16:35	17.3	7.6	28.9	6.93	3.83	3.8
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS14	Surface	1	1	17:26	17.1	7.23	28.8	7.17	4.01	2.3
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS14	Surface	1	2	17:26	17.1	7.24	28.9	7.13	4.06	3.8
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS14	Middle	2	1	17:26	17.3	7.34	29	7.11	4.1	3
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS14	Middle	2	2	17:26	17.3	7.36	29	7.13	4.14	3.5
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS14	Bottom	3	1	17:26	17.4	7.4	29	7.04	3.52	3.6
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS14	Bottom	3	2	17:26	17.4	7.44	29	7.06	3.6	2.8
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS15	Surface	1	1	16:07	17.1	7.5	28.6	7.14	3.7	3.8
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS15	Surface	1	2	16:07	17.1	7.48	28.7	7.16	3.74	2.8
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS15	Middle	2	1	16:07	17.3	7.91	28.8	7.05	3.94	3.7
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS15	Middle	2	2	16:07	17.2	7.93	28.8	7.01	3.9	3
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS15	Bottom	3	1	16:07	17.4	7.58	28.9	7.19	3.52	2.7
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	IS15	Bottom	3	2	16:07	17.4	7.59	28.9	7.18	3.5	2.5
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	SR8	Surface	1	1	15:33	17.1	7.28	28.7	6.85	7.07	4.1

TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	SR8	Surface	1	2	15:33	17.1	7.3	28.6	6.81	7.1	4.1
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	SR8	Middle	2	1	15:33						
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	SR8	Middle	2	2	15:33						
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	SR8	Bottom	3	1	15:33	17.4	7.42	28.8	6.67	7.13	3.9
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	SR8	Bottom	3	2	15:33	17.4	7.48	28.8	6.7	7.17	5.3
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	SR9	Surface	1	1	15:51	17	7.61	28.6	7.08	8.02	3.2
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	SR9	Surface	1	2	15:51	17	7.63	28.6	7.02	8	3.6
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	SR9	Middle	2	1	15:51						
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	SR9	Middle	2	2	15:51						
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	SR9	Bottom	3	1	15:51	17.3	7.9	28.9	7.24	7.74	4.2
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	SR9	Bottom	3	2	15:51	17.3	7.88	28.8	7.28	7.7	5
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	SR10a	Surface	1	1	15:15	17.1	7.3	28.6	7.02	3.68	2.2
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	SR10a	Surface	1	2	15:15	17	7.34	28.7	7	3.6	2.4
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	SR10a	Middle	2	1	15:15	17.2	7.53	28.8	6.94	4.11	2.5
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	SR10a	Middle	2	2	15:15	17.2	7.57	28.8	6.96	4.13	2.7
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	SR10a	Bottom	3	1	15:15	17.4	7.67	29	6.88	4.18	2.3
TMCLKL	HY/2012/08	2013-12-30	Mid-Flood	Fine	Small wave	SR10a	Bottom	3	2	15:15	17.3	7.63	29	6.82	4.12	2.4
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	CS4	Surface	1	1	09:28	17.1	7.42	28.6	6.54	3.2	2.7
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	CS4	Surface	1	2	09:28	17.1	7.4	28.6	6.56	3.16	3.2
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	CS4	Middle	2	1	09:28	17.3	7.58	28.7	6.89	3.67	4.6
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	CS4	Middle	2	2	09:28	17.3	7.6	28.6	6.81	3.69	4.8
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	CS4	Bottom	3	1	09:28	17.4	7.66	28.9	6.88	3.82	3.4
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	CS4	Bottom	3	2	09:28	17.4	7.68	28.9	6.9	3.8	3.2
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	CS6	Surface	1	1	12:40	17.2	7.59	28.5	6.94	3.41	3
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	CS6	Surface	1	2	12:40	17.2	7.61	28.6	6.96	3.49	2.9
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	CS6	Middle	2	1	12:40	17.3	7.48	28.7	7.17	3.65	2.8
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	CS6	Middle	2	2	12:40	17.3	7.49	28.7	7.1	3.61	3.2
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	CS6	Bottom	3	1	12:40	17.4	7.52	28.9	7.28	3.82	2.8
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	CS6	Bottom	3	2	12:40	17.4	7.58	28.9	7.2	3.8	3
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS12	Surface	1	1	10:16	17.1	7.74	28.5	6.77	3.5	3.6
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS12	Surface	1	2	10:16	17.1	7.7	28.6	6.73	3.54	3
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS12	Middle	2	1	10:16	17.2	7.62	28.7	6.83	3.3	2.4
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS12	Middle	2	2	10:16	17.3	7.6	28.6	6.81	3.38	2
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS12	Bottom	3	1	10:16	17.4	7.8	28.9	6.93	3.81	2.9
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS12	Bottom	3	2	10:16	17.3	7.84	28.8	6.97	3.83	2.7
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS13	Surface	1	1	10:36	17.2	7.35	28.7	6.98	3.62	2.7
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS13	Surface	1	2	10:36	17.1	7.37	28.7	6.92	3.6	2.4
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS13	Middle	2	1	10:36	17.3	7.52	28.8	7.2	3.94	2.7
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS13	Middle	2	2	10:36	17.3	7.53	28.8	7.24	3.98	2.3
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS13	Bottom	3	1	10:36	17.6	7.9	28.9	7.12	3.74	2.6
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS13	Bottom	3	2	10:36	17.6	7.89	29	7.1	3.71	2.1
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS14	Surface	1	1	09:58	17.1	7.62	28.6	6.36	3.34	2.1
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS14	Surface	1	2	09:58	17.1	7.68	28.6	6.4	3.3	2.7
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS14	Middle	2	1	09:58	17.2	7.72	28.7	6.48	3.7	2.6
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS14	Middle	2	2	09:58	17.3	7.73	28.7	6.49	3.78	2
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS14	Bottom	3	1	09:58	17.4	7.74	28.8	6.54	3.93	2.2

TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS14	Bottom	3	2	09:58	17.4	7.76	28.9	6.56	3.97	2.8
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS15	Surface	1	1	10:56	17.2	7.58	28.6	7.08	3.8	2.2
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS15	Surface	1	2	10:56	17.2	7.59	28.7	7.02	3.88	2.2
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS15	Middle	2	1	10:56	17.3	7.71	28.7	7.1	3.94	2.7
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS15	Middle	2	2	10:56	17.4	7.73	28.8	7.18	3.9	2.3
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS15	Bottom	3	1	10:56	17.5	7.9	29	7.02	4.08	2.5
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	IS15	Bottom	3	2	10:56	17.5	7.94	29	7.03	4.02	2.5
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	SR8	Surface	1	1	11:34	17.1	7.63	28.6	6.97	7.7	3.9
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	SR8	Surface	1	2	11:34	17.1	7.67	28.6	6.99	7.48	5.5
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	SR8	Middle	2	1	11:34						
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	SR8	Middle	2	2	11:34						
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	SR8	Bottom	3	1	11:34	17.3	7.82	28.7	6.5	7.78	3.9
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	SR8	Bottom	3	2	11:34	17.2	7.8	28.8	6.58	7.42	5.4
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	SR9	Surface	1	1	11:16	17.1	7.51	28.6	7.14	7.94	3.8
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	SR9	Surface	1	2	11:16	17.2	7.52	28.6	7.1	7.9	4
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	SR9	Middle	2	1	11:16						
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	SR9	Middle	2	2	11:16						
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	SR9	Bottom	3	1	11:16	17.4	7.82	28.9	7.02	7.82	5.3
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	SR9	Bottom	3	2	11:16	17.5	7.8	29	7.01	7.8	4
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	SR10a	Surface	1	1	11:53	17.2	7.72	28.6	6.84	3.3	3.5
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	SR10a	Surface	1	2	11:53	17.2	7.71	28.6	6.8	3.38	3.2
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	SR10a	Middle	2	1	11:53	17.3	7.57	28.7	7.09	3.49	3.4
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	SR10a	Middle	2	2	11:53	17.3	7.58	28.8	7.01	3.41	3.7
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	SR10a	Bottom	3	1	11:53	17.3	7.51	28.9	6.77	3.78	2
TMCLKL	HY/2012/08	2013-12-30	Mid-Ebb	Fine	Small wave	SR10a	Bottom	3	2	11:53	17.4	7.53	28.9	6.73	3.79	2.4

Appendix J

Impact Dolphin Monitoring Survey

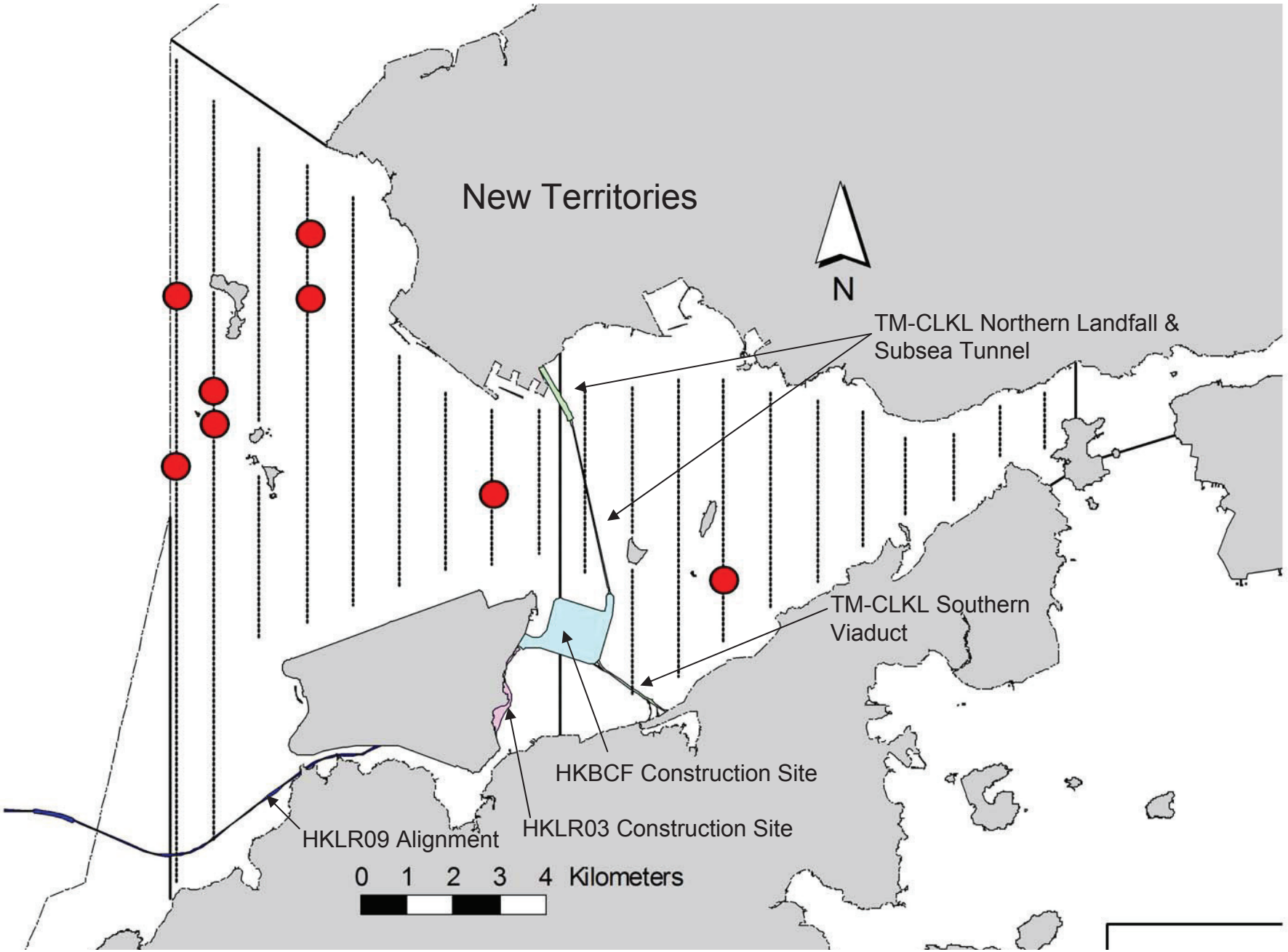


Figure 6. Distribution of Chinese White Dolphin Sightings During December 2013 HKLR03 Monitoring Surveys

Appendix I. HKLR03 Survey Effort Database (December 2013)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
5-Dec-13	NE LANTAU	1	21.06	WINTER	STANDARD31516	HKLR	P
5-Dec-13	NE LANTAU	2	16.22	WINTER	STANDARD31516	HKLR	P
5-Dec-13	NE LANTAU	1	6.64	WINTER	STANDARD31516	HKLR	S
5-Dec-13	NE LANTAU	2	5.18	WINTER	STANDARD31516	HKLR	S
5-Dec-13	NW LANTAU	2	11.53	WINTER	STANDARD31516	HKLR	P
5-Dec-13	NW LANTAU	3	3.89	WINTER	STANDARD31516	HKLR	P
5-Dec-13	NW LANTAU	2	3.87	WINTER	STANDARD31516	HKLR	S
5-Dec-13	NW LANTAU	3	2.51	WINTER	STANDARD31516	HKLR	S
9-Dec-13	NW LANTAU	2	19.03	WINTER	STANDARD31516	HKLR	P
9-Dec-13	NW LANTAU	3	37.52	WINTER	STANDARD31516	HKLR	P
9-Dec-13	NW LANTAU	2	5.22	WINTER	STANDARD31516	HKLR	S
9-Dec-13	NW LANTAU	3	6.78	WINTER	STANDARD31516	HKLR	S
13-Dec-13	NE LANTAU	1	4.50	WINTER	STANDARD31516	HKLR	P
13-Dec-13	NE LANTAU	2	31.16	WINTER	STANDARD31516	HKLR	P
13-Dec-13	NE LANTAU	1	3.90	WINTER	STANDARD31516	HKLR	S
13-Dec-13	NE LANTAU	2	9.44	WINTER	STANDARD31516	HKLR	S
13-Dec-13	NW LANTAU	2	8.88	WINTER	STANDARD31516	HKLR	P
13-Dec-13	NW LANTAU	3	6.40	WINTER	STANDARD31516	HKLR	P
13-Dec-13	NW LANTAU	2	4.12	WINTER	STANDARD31516	HKLR	S
19-Dec-13	NW LANTAU	3	14.06	WINTER	STANDARD31516	HKLR	P
19-Dec-13	NW LANTAU	4	36.79	WINTER	STANDARD31516	HKLR	P
19-Dec-13	NW LANTAU	5	6.10	WINTER	STANDARD31516	HKLR	P
19-Dec-13	NW LANTAU	3	8.79	WINTER	STANDARD31516	HKLR	S
19-Dec-13	NW LANTAU	4	2.91	WINTER	STANDARD31516	HKLR	S
19-Dec-13	NW LANTAU	5	0.90	WINTER	STANDARD31516	HKLR	S

Appendix II. HKLR03 Chinese White Dolphin Sighting Database (December 2013)

(Abberviations: 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 Lines)

DATE	STG #	TIME	HRD SZ	AREA	BEAU	PSD	EFFORT	TYPE	NORTHING	EASTING	SEASON	BOAT ASSOC.	P/S
05-Dec-13	1	1127	3	NE LANTAU	1	275	ON	HKLR	820787	816500	WINTER	NONE	P
09-Dec-13	1	1119	1	NW LANTAU	3	77	ON	HKLR	822544	811516	WINTER	NONE	P
09-Dec-13	2	1238	4	NW LANTAU	2	132	ON	HKLR	826515	807547	WINTER	NONE	P
09-Dec-13	3	1256	12	NW LANTAU	2	103	ON	HKLR	827833	807540	WINTER	NONE	P
09-Dec-13	4	1518	4	NW LANTAU	3	177	ON	HKLR	823088	804646	WINTER	NONE	P
09-Dec-13	5	1539	1	NW LANTAU	2	866	ON	HKLR	826577	804664	WINTER	NONE	P
19-Dec-13	1	1203	2	NW LANTAU	3	73	ON	HKLR	824648	805453	WINTER	NONE	P
19-Dec-13	2	1216	6	NW LANTAU	3	150	ON	HKLR	823972	805483	WINTER	NONE	P

Appendix K

Event and Action Plan

Event and Action Plan for Impact Air Monitoring

	Action			
	ET [(a)]	**IEC** [(a)]	**SOR** [(a)]	**Contractor(s)**
Action Level				
Exceedance recorded	1. Identify the source. 2. Repeat measurement to confirm finding. If two consecutive measurements exceed Action Level, the exceedance is then confirmed. 3. Inform the IEC and the SOR. 4. Investigate the cause of exceedance and check Contractor's working procedures to determine possible mitigation to be implemented. 5. If the exceedance is confirmed to be Project related after investigation, increase monitoring frequency to daily. 6. Discuss with the IEC and the Contractor on remedial actions required. 7. If exceedance continues, arrange meeting with the IEC and the SOR. 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by the ET. 2. Check the Contractor's working method. 3. If the exceedance is confirmed to be Project related after investigation, discuss with the ET and the Contractor on possible remedial measures. 4. Advise the SOR on the effectiveness of the proposed remedial measures. 5. Supervisor implementation of remedial measures.	1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Ensure remedial measures properly implemented.	1. Rectify any unacceptable practice 2. Amend working methods if appropriate 3. If the exceedance is confirmed to be Project related, submit proposals for remedial actions to IEC within 3 working days of notification 4. Implement the agreed proposals 5. Amend proposal if appropriate

	Action			
	ET [(a)]	**IEC [(a)]**	**SOR [(a)]**	**Contractor(s)**
Limit Level				
Exceedance recorded	1. Identify the source. 2. Repeat measurement to confirm finding. If two consecutive measurements exceed Limit Level, the exceedance is then confirmed. 3. Inform the IEC, the SOR, the DEP and the Contractor. 4. Investigate the cause of exceedance and check Contractor's working procedures to determine possible mitigation to be implemented. 5. If the exceedance is confirmed to be Project related after investigation, increase monitoring frequency to daily. 6. Carry out analysis of the Contractor's working procedures to determine possible mitigation to be implemented. 7. Arrange meeting with the IEC and the SOR to discuss the remedial actions to be taken. 8. Assess effectiveness of the Contractor's remedial actions and keep the IEC, the DEP and the SOR informed of the results. 9. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by the ET. 2. Check Contractor's working method. 3. If the exceedance is confirmed to be Project related after investigation, discuss with the ET and the Contractor on possible remedial measures. 4. Advise the SOR on the effectiveness of the proposed remedial measures. 5. Supervisor implementation of remedial measures.	1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. If the exceedance is confirmed to be Project related after investigation, in consultation with the IEC, agree with the Contractor on the remedial measures to be implemented. 4. Ensure remedial measures are properly implemented. 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.	1. Take immediate action to avoid further exceedance. 2. If the exceedance is confirmed to be Project related after investigation, submit proposals for remedial actions to IEC within 3 working days of notification. 3. Implement the agreed proposals. 4. Amend proposal if appropriate. 5. Stop the relevant activity of works as determined by the SOR until the exceedance is abated.

Note: (a) ET – Environmental Team; IEC – Independent Environmental Checker; SOR – Supervising Officer's Representative

Event & Action Plan for Water Quality

Event	ET Leader	IEC	SOR	Contractor
Action level being exceeded by one sampling day	1. Repeat *in situ* measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor and SOR; 4. Check monitoring data, all plant, equipment and Contractor's working methods.	1. Check monitoring data submitted by ET and Contractor's working methods.	1. Confirm receipt of notification of non-compliance in writing; 2. Notify Contractor.	1. Inform the SOR and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Amend working methods if appropriate.
Action level being exceeded by two or more consecutive sampling days	1. Repeat measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor, SOR and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, SOR and Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Action level;	1. Check monitoring data submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the proposed mitigation measures submitted by Contractor and advise the SOR accordingly; 4. Supervise the implementation of mitigation measures.	1. Discuss with IEC on the proposed mitigation measures; 2. Ensure mitigation measures are properly implemented; 3. Assess the effectiveness of the implemented mitigation measures.	1. Inform the Supervising Officer and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment and consider changes of working methods; 4. Submit proposal of additional mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR; 5. Implement the agreed mitigation measures.
Limit level being exceeded by one sampling day	1. Repeat measurement on next day of exceedance to confirm findings;	1. Check monitoring data submitted by ET and	1. Confirm receipt of notification of failure in	1. Inform the SOR and confirm notification of the

Event	ET Leader	IEC	SOR	Contractor
	2. Identify source(s) of impact; 3. Inform IEC, contractor, SOR and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with 6. IEC, SOR and Contractor;	Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the proposed mitigation measures submitted by Contractor and advise the SOR accordingly.	writing; 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 3. Request Contractor to review the working methods.	non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment and consider changes of working methods; 4. Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR.
Limit level being exceeded by two or more consecutive sampling days	1. Repeat measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor, SOR and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, SOR and Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days;	1. Check monitoring data submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the SOR accordingly; 4. Supervise the implementation of mitigation measures.	1. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be implemented; 4. Ensure mitigation measures are properly implemented; 5. 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.	1. Take immediate action to avoid further exceedance; 2. Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR; 3. Implement the agreed mitigation measures; 4. Resubmit proposals of mitigation measures if problem still not under control; 5. 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.

Note: ET – Environmental Team, IEC – Independent Environmental Checker, SOR – Supervising Officer's Representative

Event / Action Plan for Impact Dolphin Monitoring

EVENT	ACTION*			
	ET	IEC	SOR	Contractor
Action Level	1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, SOR and Contractor; 5. Check monitoring data. 6. Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary.	1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and finding with the ET and the Contractor.	1. Discuss monitoring with the IEC and any other measures proposed by the ET; 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.	1. Inform the SOR and confirm notification of the non-compliance in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the SOR; 3. Implement the agreed measures.
Limit Level	1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences;	1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor; 3. Attend the meeting to discuss with ET, SOR and	1. Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures. 2. If SOR is satisfied with the	1. Inform the SOR and confirm notification of the non-compliance in writing; 2. Attend the meeting to discuss with ET, IEC and SOR the necessity of additional dolphin monitoring and any other

EVENT	ACTION*			
	ET	IEC	SOR	Contractor
	3. Identify source(s) of impact; 4. Inform the IEC, SOR and Contractor of findings; 5. Check monitoring data; 6. Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 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, 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.	Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures. 4. Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise SOR of the results and findings accordingly. 5. Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise SOR the results and findings accordingly.	proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, SOR to signify the agreement in writing on such proposals and any other mitigation measures. 3. Supervise the implementation of additional monitoring and/or any other mitigation measures.	potential mitigation measures. 3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary. 4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures.

Appendix L

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

Appendix L Cumulative Statistics on Exceedances

		Total No. recorded in this reporting month	**Total No. recorded since project commencement**
1-Hr TSP	Action	8	12
	Limit	1	2
24-Hr TSP	Action	4	4
	Limit	1	1
Water Quality	Action	5	5
	Limit	0	0
Impact Dolphin Monitoring	Action	0	0
	Limit	0	0

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

Reporting Period	**Cumulative Statistics**		
	Complaints	Notifications of Summons	Successful Prosecutions
This Reporting Month (Dec 2013)	0	0	0
Total No. received since project commencement	0	0	0

Email message

Environmental Resources Management

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

To	ENVIRON - Hong Kong, Limited (ENPO)
From	ERM- Hong Kong, Limited
Ref/Project number	Contract No. HY/2012/08 Tuen Mun–Chek Lap Kok Link–Northern Connection Sub-sea Tunnel Section
Subject	Notification of Exceedance for Water Quality Impact Monitoring
Date	30 December 2013

Dear Sir or Madam,

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

0212330_4December 2013_SS_F_Station IS15

A total of one exceednace was recorded on 4 December 2013.

Regards,

Mr Jovy Tam
Environmental Team Leader

ERM-Hong Kong, Limited

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

Marine Water Quality Impact Monitoring
Notification of Exceedance

Log No.	**0212330_4December 2013_SS_F_Station IS15** **[Total No. of Exceedances = 1]**	
Date	4 December 2013 (Measured) 7 December 2013 (*In situ* results received by ERM) 23 December 2013 (Laboratory results received by ERM)	
Monitoring Station	CS4, CS6, SR8, SR9, SR10A, IS12, IS13, IS14, IS15	
Parameter(s) with Exceedance(s)	Depth-averaged Suspended Solids (mg/L)	
Action Levels	SS	120% of upstream control station at the same tide of the same day (i.e., CS6: 9.76 x 120% = 11.7 mg/L for mid-flood) and 95%-ile of baseline data (i.e., 23.5 mg/L).
Limit Levels	SS	130% of upstream control station at the same tide of the same day and 10mg/L for WSD Seawater Intakes at Tuen Mun (i.e., CS6: 9.76x130% = 12.7 mg/L for mid flood) and 99%-ile of baseline data. (i.e., 34.4 mg/L)
Measured Levels	Action Level Exceedance is observed at IS15 (23.9 mg/L) during mid-flood tide.	
Works Undertaken (at the time of monitoring event)	On 4 December 2013, all the dredging activities stopped before 19:00 and the dredging barge has already left Portion N-a at 19:00 hence no marine works was undertaken during the time of monitoring at IS15 during mid-flood tide (1900 to 1917 hrs).	
Possible Reason for Action or Limit Level Exceedance(s)	The exceedance is unlikely to be due to the Project, in view of the following: • According to the site diary, no marine works was undertaken at the monitoring period after 1900 hrs at Portion N-a. Therefore the exceedance is highly unlikely to be project-related. • Apart from IS15, depth-averaged SS levels at all other monitoring stations were in compliance with the Action and Limit Levels during both mid-flood and mid-ebb tides on the same day. Depth-averaged SS levels at IS15 at both tides were similar to those at other stations apart from the marginal exceedance observed at mid-flood tide. Consequently the observed SS exceedance is well within the natural range and is not considered to be any environmental concern. • Depth-averaged Turbidity levels at all stations were relatively low and were in compliance with the Action and Limit Levels during both tides on the same day.	
Actions Taken / To Be Taken	With reference to the site inspection record on 4-Dec, the cage-type silt curtain was properly installed at the dredging site. Dredging grab was maintained to avoid spillage and controlled to prevent splashing of dredged material to the surrounding water. No immediate action is considered necessary. The ET will monitor for future trends in exceedances.	
Remarks	The monitoring results and the locations of water quality monitoring stations are attached.	

Email message

Environmental Resources Management

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

To	ENVIRON - Hong Kong, Limited (ENPO)
From	ERM- Hong Kong, Limited
Ref/Project number	Contract No. HY/2012/08 Tuen Mun–Chek Lap Kok Link–Northern Connection Sub-sea Tunnel Section
Subject	Notification of Exceedance for Water Quality Impact Monitoring
Date	30 December 2013

ERM

Dear Sir or Madam,

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

0212330_6December2013_SS_F_Station_SR8
0212330_6December2013_SS_F_Station_SR9
0212330_6December2013_SS_E_Station_IS15
0212330_6December2013_SS_E_Station_SR9

A total of four exceedances were recorded on 6 December 2013.

Regards,

Mr Jovy Tam
Environmental Team Leader

ERM-Hong Kong, Limited

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

Marine Water Quality Impact Monitoring
Notification of Exceedance

Log No.	**0212330_6December 2013_SS_F_Station SR8** **0212330_6December 2013_SS_F_Station SR9** **0212330_6December 2013_SS_E_Station IS15** **0212330_6December 2013_SS_E_Station SR9** **[Total No. of Exceedances = 4]**		
Date	6 December 2013 (Measured) 10 December 2013 (*In situ* results received by ERM) 23 December 2013 (Laboratory results received by ERM)		
Monitoring Station	CS4, CS6, SR8, SR9, SR10A, IS12, IS13, IS14, IS15		
Parameter(s) with Exceedance(s)	Depth-averaged Suspended Solids (mg/L)		
Action Levels	SS	120% of upstream control station at the same tide of the same day (i.e., CS6: 11.2 x 120% = 13.4 mg/L for mid-flood; CS4: 12.0 x 120% = 14.4 mg/L for mid-ebb) and 95%-ile of baseline data (i.e., 23.5 mg/L).	
Limit Levels	SS	130% of upstream control station at the same tide of the same day and 10mg/L for WSD Seawater Intakes at Tuen Mun (i.e., CS6: 11.2 x 130% = 14.6 mg/L for mid-flood; CS4: 12.0 x 130% = 15.6 mg/L for mid-ebb) and 99%-ile of baseline data. (i.e., 34.4 mg/L)	
Measured Levels	Action Level Exceedance is observed at SR8 (23.8 mg/L) during mid-flood tide. Action Level Exceedance is observed at SR9 (27.4 mg/L) during mid-flood tide. Action Level Exceedance is observed at IS15 (26.2 mg/L) during mid-ebb tide. Action Level Exceedance is observed at SR9 (24.0 mg/L) during mid-ebb tide.		
Sampling Time	Sampling Station	Start Time	End Time
	SR8 (Mid-Flood)	09:20	09:35
	SR9 (Mid-Flood)	09:42	09:57
	IS15 (Mid-Ebb)	15:20	15:37
	SR9 (Mid-Ebb)	15:43	15:58
Works Undertaken (at the time of monitoring event)	According to the site diary, on 6 December 2013 dredging activities was undertaken by one closed grab dredger at Portion N-A from 07:00 to 17:00.		

Possible Reason for Action or Limit Level Exceedance(s)	The exceedance is unlikely to be due to the Project, in view of the following: • Apart from IS15, SR8 and SR9, depth-averaged SS levels at all other monitoring stations were in compliance with the Action and Limit Levels during both mid-flood and mid-ebb tides on the same day. Depth-averaged SS levels at SR8 at both tides were similar to those at other stations apart from the marginal exceedance observed at mid-flood tide. Consequently the observed SS exceedance is well within the natural range and is not considered to be any environmental concern. • Depth-averaged Turbidity levels at all stations were in compliance with the Action and Limit Levels during both tides on the same day. Likewise, DO at all levels were relatively high and were in compliance with the Action and Limit Levels in both mid-ebb and mid-flood tides. • Heavy marine traffic was observed at monitoring station IS15 during site visit. The high usage of cargo vessels and sand barges (not associated with the Project) in the channel would be a possible factor contributing to the observed exceedances. • With reference to the daily marine dumping record, the daily dredging rate on 6-Dec (1,500 m^3) was in compliance with the EP conditions (EP condition 3.7). In addition, one closed grab dredger was operated with both cage-type silt curtain and single layer silt curtain being deployed throughout the period of dredging activities. • No malpractice was observed during the sampling process. • With reference to site inspection 4 and 10 Dec, the cage-type silt curtain was properly maintained and no sediment outflow was observed.
Actions Taken / To Be Taken	With reference to the site inspection record on 4-Dec, the cage-type silt curtain was properly installed at the dredging site. Dredging grab was maintained to avoid spillage and controlled to prevent splashing of dredged material to the surrounding water. No immediate action is considered necessary. The ET will monitor for future trends in exceedances.
Remarks	The monitoring results and the locations of water quality monitoring stations are attached.

Email message

Environmental Resources Management

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Quarry Bay, Hong Kong
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To	ENVIRON - Hong Kong, Limited (ENPO)
From	ERM- Hong Kong, Limited
Ref/Project number	Contract No. HY/2012/08 Tuen Mun–Chek Lap Kok Link–Northern Connection Sub-sea Tunnel Section
Subject	Notification of Exceedance for Air Quality Impact Monitoring
Date	27 December 2013

Dear Sir or Madam,

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

0212330_11December2013_1hrTSP_Station ASR1
0212330_11December2013_1hrTSP_Station ASR5
0212330_11December2013_1hrTSP_Station AQMS2
0212330_11December2013_24hrTSP_Station ASR1
0212330_11December2013_24hrTSP_Station ASR5

A total of five exceedances were recorded on 11 December 2013.

Regards,

Mr Jovy Tam
Environmental Team Leader

ERM-Hong Kong, Limited

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

Air Quality Impact Monitoring
Notification of Exceedance

Log No.	**0212330_11December2013_1hrTSP_Station ASR1** **0212330_11December2013_1hrTSP_Station ASR5** **0212330_11December2013_1hrTSP_Station AQMS2** **[Total No. of Exceedances = 6]**	
Date	11 December 2013 (Measured) 19 December 2013 (Laboratory results received by ERM)	
Monitoring Station	ASR1, ASR5, AQMS2	
Parameter(s) with Exceedance(s)	1-hr TSP	
Action Levels	1-hr TSP (µg/m³)	ASR1 = 331 ASR5 = 340 AQMS2 = 338
Limit Levels	1-hr TSP (µg/m³)	500
Measured Levels	Action Level Exceedance is observed at ASR1 (359 µg/m³) during 0832 - 0932 hrs. Action Level Exceedance is observed at ASR1 (474 µg/m³) during 0934 - 1034 hrs. Action Level Exceedance is observed at ASR5 (361 µg/m³) during 0823 - 0923 hrs. Limit Level Exceedance is observed at ASR5 (559 µg/m³) during 0925 - 1025 hrs. Action Level Exceedance is observed at AQMS2 (425 µg/m³) during 0811 - 0911 hrs. Action Level Exceedance is observed at AQMS2 (400 µg/m³) during 0913 - 1013 hrs.	
Works Undertaken (at the time of monitoring event)	On 11 December 2013, marine dredging works were carried out by one dredger Crown Asia 1 at Portion N-a. At the time of monitoring during 0811 to 1034 hrs, dredging was undertaken by one dredger at Portion N-a which is at more than 100 m from the air quality monitoring stations. At Site WA 18, excavation and foundation for site formation were undertaken.	

Possible Reason for Action or Limit Level Exceedance(s)	The exceedances are unlikely to be due to the Project, in view of the following: • Considering the generally high level of 1-hour TSP between 0800 and 1045 hrs at most of the monitoring stations, it is probably unlikely that the level of land-base construction activities under this Contract can cause increase in 1-hour TSP of this magnitude and scale. It is considered that the observed high 1-hour TSP may represent sporadic event associated with traffic emissions and anthropogenic activities during morning rush hour at Lung Mun Road and River Trade Terminal. • According to the construction diary provided by the Contractor, the majority of construction works on 11 December 2013 were marine based with the dredging works being undertaken by one dredger (Crown Asia 1) at Portion N-A, whilst only minor land-based construction works at WA-18 were undertaken. Referring to the construction site diary on 11 December 2013, land-based construction works undertaken such as installation of site office's steel structure at WA-18, construction of u-channel are considered to have insignificant effect on dust generation. • Whilst exceedance of Action Level was observed at ASR1, the average 1-hr TSP level (328 $\mu g/m^3$) at the monitoring station on 11 December 2013 was in compliance with the Action and Limit Levels. Likewise, average 1-hr TSP level at ASR5 (319$\mu g/m^3$) was also in compliance with the Action and Limit Levels on 11 December 2013. The 1-hr TSP at ASR1 and ASR5 returned to level below the Action/Limit Levels at the third TSP measurement taken after morning traffic rush hours on the same day. • Same level and extent of construction works were carried out at the same locations on 5th December while no exceedance was recorded. • With reference to the recorded wind direction (ranged between 108^o and 119^o, blowing to a southeasterly direction) and wind speed (ranged from 2.79 to 4.67 m/s) during the period of observed 1-hr TSP exceedances, Stations ASR1, AQMS2 and ASR5 are located upstream of the major construction activities at dredging barge Crown Asia 1 at Portion N-A, thus they should not be affected by the dust, if any, generated by the concerned construction activities. Wind speed recorded from 08:00 to 10:00 shows a significantly higher measurement (4.46m/s) with comparison to previous monitoring records; hence dust particles were transported in a relatively higher rate across a wide area. The Exceedances are likely to be resulted from the high wind speed during the monitoring period. • Under the strong wind condition, the recycling yard next to ASR5 is likely to generate large amount of dust with the ongoing of loading and unloading of recycle materials which is not part of the construction works of the Project. This practice under strong wind is possible one of the major factors contributing to the exceedance for ASR5. • As stated in the EIA report (Section 4.2.3), the background TSP level of Tuen Mun is higher than the other region of Hong Kong, thus the exceedances may be also contributed cumulatively by the other construction works / traffic within the Tuen Mun Area rather than causing by the construction works of the Project.
Actions Taken / To Be Taken	The Contractor was reminded to ensure all dust mitigating measures are provided at WA 18. The ET will monitor for future trends in exceedances.
Remarks	The monitoring results, the locations of air quality monitoring stations, wind data and construction works schedule are attached.

Email message

Environmental Resources Management

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To	ENVIRON - Hong Kong, Limited (ENPO)
From	ERM- Hong Kong, Limited
Ref/Project number	Contract No. HY/2012/08 Tuen Mun–Chek Lap Kok Link–Northern Connection Sub-sea Tunnel Section
Subject	Notification of Exceedance for Air Quality Impact Monitoring
Date	6 January 2014

ERM

Dear Sir or Madam,

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

0212330_23December2013_1hrTSP_Station ASR5
0212330_23December2013_1hrTSP_Station AQMS2
0212330_23December2013_24hrTSP_Station AQMS2

A total of three exceedances were recorded on 23 December 2013.

Regards,

Mr Jovy Tam
Environmental Team Leader

ERM-Hong Kong, Limited

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

Air Quality Impact Monitoring
Notification of Exceedance

Log No.	**0212330_23December2013_1hrTSP_Station ASR5** **0212330_23December2013_1hrTSP_Station AQMS2** **0212330_23December2013_24hrTSP_Station AQMS2** **[Total No. of Exceedances = 3]**	
Date	23 December 2013 (Measured) 1 January 2014 (Laboratory results received by ERM)	
Monitoring Station	ASR5, AQMS2	
Parameter(s) with Exceedance(s)	1-hr TSP 24-hr TSP	
Action Levels	1-hr TSP (µg/m³)	ASR1 = 331 ASR5 = 340 ASR10 = 337 AQMS1 = 335 AQMS2 = 338
	24-hr TSP (µg/m³)	ASR1 = 213 ASR5 = 238 ASR10 = 214 AQMS1 = 213 AQMS2 = 238
Limit Levels	1-hr TSP (µg/m³)	500
	24-hr TSP (µg/m³)	260
Measured Levels	Action Level Exceedance on 1-hr TSP is observed at ASR5 (386 µg/m³) during 0822 - 0922 hrs. Action Level Exceedance on 1-hr TSP is observed at AQMS2 (344 µg/m³) during 0912 - 1012 hrs. Limit Level Exceedance on 24-hr TSP is observed at AQMS2 (269 µg/m³).	
Works Undertaken (at the time of monitoring event)	On 23 December 2013, marine dredging works were carried out by one dredger Crown Asia 1 at Portion N-A. At the time of monitoring during 0822 to 1012 hrs, dredging was undertaken by one dredger at Portion N-A which is at more than 100 m from the air quality monitoring stations. At Site WA 18, excavation and foundation for site formation were undertaken.	

Possible Reason for Action or Limit Level Exceedance(s)	The exceedances are unlikely to be due to the Project, in view of the following: • It is considered that the observed high 1-hour TSP may represent sporadic event associated with traffic emissions and anthropogenic activities during morning rush hour at Lung Mun Road and River Trade Terminal. • According to the construction diary provided by the Contractor, the majority of construction works on 23 December 2013 were marine based with the dredging works being undertaken by one dredger (Crown Asia 1) at Portion N-A, whilst only minor land-based construction works at WA-18 were undertaken. Referring to the construction site diary on 23 December 2013, land-based construction works undertaken was installation of roof panel at WA-18, construction of substation are considered to have minor effect on dust generation. • Whilst exceedance of Action Level was observed at ASR5, the average 1-hr TSP level (277 $\mu g/m^3$) at the monitoring station on 23 December 2013 was in compliance with the Action and Limit Levels. Likewise, average 1-hr TSP level at ASR5 was also in compliance with the Action and Limit Levels on 17 and 28 December 2013. The 1-hr TSP at ASR5 returned to level below the Action/Limit Levels at the third TSP measurement taken after high traffic flow in morning on the same day. • Same level and extent of construction works were carried out at the same locations on 17th December while no exceedance was recorded. • With reference to the recorded wind direction (ranged between 113° and 168°, blowing to a southeasterly direction) and wind speed (ranged from 1.47 to 2.65 m/s) during the period of observed 1-hr TSP exceedances, Stations AQMS2 and ASR5 are located upstream of the major construction activities at dredging barge Crown Asia 1 at Portion N-A, thus they should not be affected by the dust, if any, generated by the concerned construction activities. Wind speed recorded from 08:00 to 10:00 shows a relatively higher measurement (1.98m/s) in comparison to previous monitoring records; hence dust particles were transported in a relatively higher rate across a wide area. The Exceedances are likely to be resulted from the high wind speed during the monitoring period. • Under the strong wind condition, the recycling yard next to ASR5 is likely to generate large amount of dust with the ongoing of loading and unloading of recycle materials which is not part of the construction works of the Project. This practice under strong wind is possible one of the major factors contributing to the exceedance for ASR5. • As stated in the EIA report (Section 4.2.3), the background TSP level of Tuen Mun is higher than the other region of Hong Kong, thus the exceedances may be also contributed cumulatively by the other construction works / traffic within the Tuen Mun Area rather than causing by the construction works of the Project.
Actions Taken/To Be Taken	The Contractor was reminded to ensure all dust mitigating measures are provided at WA 18. The ET will monitor for future trends in exceedances.
Remarks	The monitoring results, the locations of air quality monitoring stations, wind data and construction works schedule are attached.

Email message

Environmental Resources Management

16/F DCH Commercial Centre,
25 Westlands Road
Quarry Bay, Hong Kong
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E-mail: jovy.tam@erm.com

To	ENVIRON - Hong Kong, Limited (ENPO)
From	ERM- Hong Kong, Limited
Ref/Project number	Contract No. HY/2012/08 Tuen Mun–Chek Lap Kok Link–Northern Connection Sub-sea Tunnel Section
Subject	Notification of Exceedance for Air Quality Impact Monitoring
Date	6 January 2014

Dear Sir or Madam,

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

0212330_28December2013_1hrTSP_Station ASR5
0212330_28December2013_1hrTSP_Station ASR10
0212330_28December2013_1hrTSP_Station AQMS2
0212330_28December2013_24hrTSP_Station ASR1
0212330_28December2013_24hrTSP_Station ASR5

A total of five exceednaces were recorded on 28 December 2013.

Regards,

Mr Jovy Tam
Environmental Team Leader

ERM-Hong Kong, Limited

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

Air Quality Impact Monitoring
Notification of Exceedance

Log No.	**0212330_28December2013_1hrTSP_Station ASR5** **0212330_28December2013_1hrTSP_Station AQMS2** **0212330_28December2013_1hrTSP_Station ASR10** **0212330_28December2013_24hrTSP_Station ASR1** **0212330_28December2013_24hrTSP_Station ASR5** **[Total No. of Exceedances = 5]**	
Date	28 December 2013 (Measured) 4 January 2014 (Laboratory results received by ERM)	
Monitoring Station	ASR1, ASR5, ASR10, AQMS2	
Parameter(s) with Exceedance(s)	1-hr TSP 24-hr TSP	
Action Levels	1-hr TSP (µg/m³)	ASR1 = 331 ASR5 = 340 ASR10 = 337 AQMS1 = 335 AQMS2 = 338
	24-hr TSP (µg/m³)	ASR1 = 213 ASR5 = 238 ASR10 = 214 AQMS1 = 213 AQMS2 = 238
Limit Levels	1-hr TSP (µg/m³)	500
	24-hr TSP (µg/m³)	260
Measured Levels	Action Level Exceedance on 1-hr TSP is observed at ASR5 (379 µg/m³) during 0822 - 0922 hrs. Action Level Exceedance on 1-hr TSP is observed at AQMS2 (378 µg/m³) during 0811 - 0911 hrs. Action Level Exceedance on 1-hr TSP is observed at ASR10 (386 µg/m³) during 1004 - 1104 hrs. Action Level Exceedance on 24-hr TSP is observed at ASR1 (249 µg/m³). Action Level Exceedance on 24-hr TSP is observed at ASR5 (256 µg/m³).	
Works Undertaken (at the time of monitoring event)	On 28 December 2013, marine dredging works were carried out by one dredger Crown Asia 1 at Portion N-A. At the time of monitoring during 0822 to 1104 hrs, dredging was undertaken by one dredger at Portion N-A which is at more than 100 m from the air quality monitoring stations. At Site WA 18, concrete paving, construction of substation were undertaken. At Portion N6, pedestrian walkway preparation at N6 was undertaken.	

Possible Reason for Action or Limit Level Exceedance(s)	The exceedances are unlikely to be due to the Project, in view of the following: • Considering the generally high level of 1-hour TSP between 0822 and 1104 hrs at most of the monitoring stations, it is probably unlikely that the level of land-base construction activities under this Contract can cause increase in 1-hour TSP of this magnitude and scale. It is considered that the observed high 1-hour TSP may represent sporadic event associated with traffic emissions and anthropogenic activities during morning rush hour at Lung Mun Road and River Trade Terminal. • According to the construction diary provided by the Contractor, the majority of construction works on 28 December 2013 were marine based with the dredging works being undertaken by one dredger (Crown Asia 1) at Portion N-A, whilst only minor land-based construction works at WA-18 and Portion N6 were undertaken. Referring to the construction site diary on 28 December 2013, land-based construction works undertaken were concrete paving and construction of substation at WA-18, these construction activities are considered to have minor effect on dust generation. At Portion N6, preparation works of pedestrian walkway was considered to have minor effect on dust generation. • Whilst exceedances of Action Level were observed at ASR10, ASR5, AQMS2, the average 1-hr TSP level (315, 279, 300 $\mu g/m^3$) at these monitoring stations on 28 December 2013 was in compliance with the Action and Limit Levels. Likewise, average 1-hr TSP level at ASR10, ASR5, AQMS2 was also in compliance with the Action and Limit Levels on 23 December 2013. The 1-hr TSP at ASR5 and AQMS2 returned to level below the Action/Limit Levels at the third TSP measurement taken after high traffic flow in morning on the same day. • With reference to the recorded wind direction (ranged between 105^o and 116^o, blowing to a southeasterly direction) and wind speed (ranged from 2.90 to 3.69 m/s) during the period of observed 1-hr TSP exceedances, Stations AQMS2 and ASR5 are located upstream of the major construction activities at dredging barge Crown Asia 1 at Portion N-A and Portion N6, thus they should not be affected by the dust, if any, generated by the concerned construction activities. Wind speed recorded from 08:00 to 11:00 shows a relatively higher measurement (3.27m/s) in comparison to previous monitoring records; hence dust particles were transported in a relatively higher rate across a wide area. The Exceedances are likely to be resulted from the high wind speed during the monitoring period. • Under the strong wind condition, the recycling yard next to ASR5 is likely to generate large amount of dust with the ongoing of loading and unloading of recycle materials which is not part of the construction works of the Project. This practice under strong wind condition could be one of the major factors contributing to the exceedance for ASR5. • As stated in the EIA report (Section 4.2.3), the background TSP level of Tuen Mun is higher than the other region of Hong Kong, thus the exceedances may be also contributed cumulatively by the other construction works / traffic within the Tuen Mun Area rather than causing by the construction works of the Project.
Actions Taken / To Be Taken	The Contractor was reminded to ensure all dust mitigating measures are provided at WA 18 and Portion N6. The ET will monitor for future trends in exceedances.
Remarks	The monitoring results, the locations of air quality monitoring stations, wind data and construction works schedule are attached.

Appendix M

Waste Flow Table

Name of Department: HyD **Contract No. / Works Order No.:** HY/2012/08

Monthly Summary Waste Flow Table for December 2013 [to be submitted not later than the 15th day of each month following reporting month]

(All quantities shall be rounded off to 3 decimal places.)

Month	Actual Quantities of Inert Construction Waste Generated Monthly									
	(a)=(b)+(c)+(d)+(e) Total Quantity Generated	(b) Hard Rock and Large Broken Concrete	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed of as Public Fill	Imported Fill to WA 23 & Reclamation Area (Rockfill 400)	Imported Fill to WA 23 & Reclamation Area (Rockfill Type A)	Imported Fill to RTT Barging Point	Marine Disposal (Cat. L)	Marine Disposal (Cat. M)
	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 m^3)	(in '000 m^3)
Jan										
Feb										
Mar										
Apr										
May										
Jun										
Sub-total										
Jul										
Aug										
Sep	0.000	0.000	0.000	0.000	0.000	1.820	0.788	0.000	0.000	0.000
Oct	0.000	0.000	0.000	0.000	0.000	18.667	3.328	0.000	0.000	0.000
Nov	2.835	0.000	0.000	0.000	2.835	45.929	1.520	0.000	21.100	13.200
Dec	0.883	0.000	0.000	0.000	0.883	145.125	13.824	45.472	40.500	5.000
Total	3.718	0.000	0.000	0.000	3.718	211.541	19.460	45.472	61.600	18.200

First Issue Date - 15 : 07 : 2013
Current Issue Date - 01 : 08 : 2013

Month	Actual Quantities of Non-inert Construction Waste Generated Monthly								
	Metals		Paper/ cardboard packaging		Plastics (see Note 3)		Chemical Waste		Others, e.g. General Refuse disposed at Landfill
	(in '000kg)		(in '000kg)		(in '000kg)		(in '000kg)		(in '000ton)
	generated	recycled	generated	recycled	generated	recycled	generated	recycled	generated
Jan									
Feb									
Mar									
Apr									
May									
Jun									
Sub-total									
Jul									
Aug									
Sep	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008
Oct	0.000	0.000	0.120	0.120	0.000	0.000	0.000	0.000	0.000
Nov	0.000	0.000	0.130	0.130	0.000	0.000	0.000	0.000	0.152
Dec	0.000	0.000	0.130	0.130	0.000	0.000	0.000	0.000	0.012
Total	0.000	0.000	0.380	0.380	0.000	0.000	0.000	0.000	0.172

Forecast of Total Quantities of Construction and Demolition Materials to be Generated from the Contract*							
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed of as Public Fill	Imported Fill	Marine Disposal (Cat. L)	Marine Disposal (Cat. M)
(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 m^3)	(in '000 m^3)
10.000	0.000	0.000	0.000	10.000	180.000	5.000	40.000

Forecast of Total Quantities of Construction and Demolition Materials to be Generated from the Contract*				
Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	General Refuse disposed of at Landfill
(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m^3)
0.000	0.050	0.000	0.000	0.100

Notes:
(1) The performance targets are given in the **ER Appendix 8J Clause 14** and the EM & A Manual(s).
(2) The waste flow table shall also include C&D materials to be imported for use at the Site.
(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
(4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m^3. (**ER Part 8 Clause 8.8.5 (d) (ii)** refers).